

MACKENZIE VALLEY

PIPELINE INQUIRY

INDEX TO THE TRANSCRIPTS

FINAL EDITION 1977

OTTAWA, ONTARIO

MACKENZIE VALLEY

PIPELINE INQUIRY

INDEX TO THE TRANSCRIPTS

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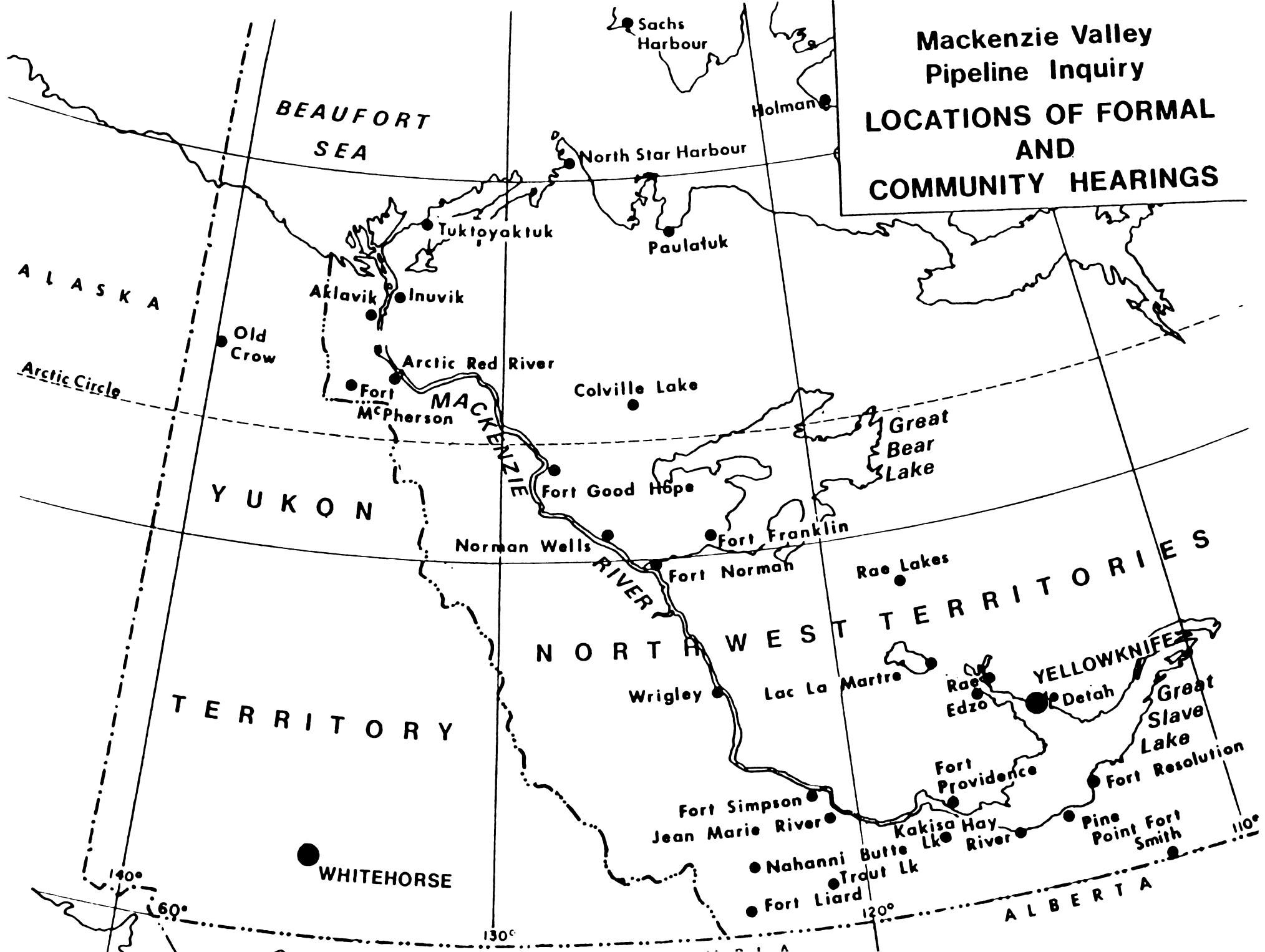
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FINAL EDITION 1977

OTTAWA, ONTARIO

Mackenzie Valley Pipeline Inquiry LOCATIONS OF FORMAL AND COMMUNITY HEARINGS



MACKENZIE VALLEY PIPELINE INQUIRY

INDEX TO TRANSCRIPTS

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EXPLANATORY NOTE

This is an index to the transcripts of the Mackenzie Valley Pipeline Inquiry hearings, both formal and community. It covers volumes XV (March 11, 1975) to 204 (November 19, 1976) of the formal hearing transcripts and all 77 of the community hearing transcripts. The table "List of Formal and Community Hearings" details the dates and locations of those hearings.

This index does not cover volumes I-XIV of the transcripts of the Inquiry, which are the record of the preliminary hearings (Yellowknife April 22, Inuvik April 24, Whitehorse April 25, Ottawa May 6-8, and Yellowknife September 12-13, 1974) and of the overview hearings (Yellowknife March 3-8, 1975).

As this edition is the final update of a progressive indexing process throughout the hearings, the entries under any particular topic are in the order in which transcripts were received from the printer (as listed below). No attempt has been made to put them into chronological order or to separate the formal from the community hearings, or one phase from another.

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Philosophy Behind the Index Methodology

This index tries to provide an entry into the transcripts by reference to topics and key words. It was commenced at the beginning of the formal hearings and -- like Topsy -- it has grown until now. Initial decisions had to be made as to the topics and key words that would be useful, but this system has always been considered flexible and additions and deletions have been made where it became apparent that they would increase the usefulness of the index. In producing this final edition, no attempt has been made to rationalize these changes.

The request from Mr. Justice Berger to produce this index was presented to me with no advance warning, so that options of more sophisticated systems (such as use of computers) were foreclosed in the need to produce something that would be immediately available for the use of Inquiry participants. Therefore, the index was moulded on the format I had developed when indexing parts of the Canadian Arctic Gas Pipeline application.

Prior to this final edition, the index contained a Daily Log, which enabled the reader to see at a glance which major topics were mentioned on any given day. Now that the hearing process is complete and the potential use of the index is long-term rather than on a day-to-day basis, the Daily Log is no longer of any use and has, therefore, been omitted. Other changes that a comparison of this and previous editions reveals are as follows:

The main topics "Community Hearings" and "Formal Hearings" have been omitted and replaced by the table "List of Formal and Community Hearings".

The "Witness (by name)" sheets have been removed from the Detailed Index Sheets section of the index and have been replaced by the "Alphabetical Listing of Witnesses at the Formal Hearings" in the front section of the book.

The main topic "Witnesses - Submissions" has been removed; it has been replaced by the "Alphabetical Listing of Witnesses at the Community Hearings", which follows the list of witnesses at the formal hearings.

How to use the Index

First, consult the Topic Index, which is a list of topics and key words. The key words that were chosen for use in the index, and to which I refer as "main topics", are shown in capital letters. Other key words or topics that are involved in the subject matter and which a reader may be interested in are shown in lower case. Immediately following the lower case entry there are one or more main topics entered in capitals, for example:

hiring: EMPLOYMENT; UNIONS AND AGREEMENTS

Some main topics are closely related or overlap one another. Such relationships are shown in the Topic Index as illustrated by the following:

TEST SITES AND FACILITIES (also: PIPELINE - TESTING, TEST MEDIA AND DISPOSAL)

Once a main topic has been selected, turn to the Detailed Index Sheets, which form the bulk of the book. The main topic is shown in capitals at the beginning of entries relating to it, and the topics are arranged in alphabetical order. Each page is divided into seven columns.

Column 1 - the volume of the transcript. As the formal and community hearings transcripts are numbered in separate series, formal hearing volumes are listed by number only, whereas the number of each community hearing volume is preceded by the letter "C".

Column 2 - the page on which the topic is discussed. Where only one page number is given, only that page is involved. Where two numbers are given, that topic is discussed on all or several of the pages between the two numbers.

Column 3 - the date of the hearing.

Column 4 - the location of the hearing.

Column 5 - the major speakers.

Column 6 - the speaker's identification. Where a witness appears on his own behalf, the word "citizen" is used. Names in this column -- and elsewhere -- follow the spelling used in the transcript.

Column 7 - describes briefly the specifics dealt with at each reference.

The transcripts and exhibits form the Public Record, and they are located at the Public Archives, 395 Wellington Street, Ottawa, Ontario, K1A 0N3.

Rosemary Wallbank
May 1977

LIST OF FORMAL AND COMMUNITY HEARINGS

All the formal hearings were held in Yellowknife, with the exception of the Whitehorse hearings (August 11-15, 1975, volumes 51 to 55) and of the Inuvik hearings (January 20 to February 19, 1976, volumes 112 to 129).

COMMUNITY HEARINGS

<u>Volume</u>	<u>Date</u>	<u>Location</u>	<u>Volume</u>	<u>Date</u>	<u>Location</u>
	1975			1976	
I, II, III	April 2, 3, 4	Aklavik	36	Jan. 28, 29	Inuvik
4, 5	May 28, 29	Hay River	37, 38, 39	Feb. 10, 12, 15, 18	Inuvik
6	May 30, 31	New Indian Village	40	Feb. 23	Aklavik
7, 8, 9	June 24, 25, 26	Fort Franklin	41	March 2, 3	Holman
10	June 26	Willow Lake	42	March 4, 5	Sachs Harbour
10	June 27	Fort Norman	43	March 7	North Star Harbour
11, 12, 13	July 8, 9, 10	Fort McPherson	44, 45	March 8, 9, 10	Tuktoyaktuk
14, 15, 16	July 11, 12, 13	Old Crow	46	March 11	Paulatuk
17	July 16, 17	Fort Liard	47	March 13	Arctic Red River
18, 19, 20	Aug. 5, 6, 7	Fort Good Hope	48	April 30	Fort Smith
21	Aug. 9	Norman Wells	49, 50, 51	May 10, 11, 12	Vancouver
22, 23	Aug. 11, 12, 13, 14	Whitehorse	52, 53	May 13, 14	Calgary
24	Aug. 23	Trout Lake	54, 55	May 17, 18	Edmonton
24	Aug. 24	Nahanni Butte	56	May 19	Regina
25, 26, 27	Sept. 8, 9, 10	Fort Simpson	57	May 20	Winnipeg
28	Sept. 10, 11	Wrigley	58, 59, 60, 61	May 25, 26, 27, 28	Toronto
29	Sept. 12	Jean Marie River	62, 63	May 31, June 1	Montreal
30	Oct. 6	Pine Point	64, 65	June 3, 4	Ottawa
31, 32	Oct. 7, 8	Fort Resolution	66	June 7	Charlottetown
33	Oct. 9	Fort Smith	67	June 8	Halifax
34	Oct. 15, 16	Yellowknife	68	July 16	Fort Providence
35	Oct. 22	Latham Island	69	July 17	Kakisa Lake
			70, 71, 72	Aug. 9, 10, 11	Rae/Edzo
			73	Aug. 12	Lac LaMartre
			74	Aug. 13	Rae Lakes
			75	Aug. 21	Colville Lake
			76, 77	Aug. 25, 26	Detah

ABBREVIATIONS

ACV	Air cushion vehicle	LGP	Low Ground Pressure
AK	Aklavik	LI	Latham Island
AM	Association of Municipalities	MA	Metis and Non-Status Native Association of the Northwest Territories
ARR	Arctic Red River	MDDGAG	Mackenzie Delta Development Gas Assessment Group
AVTC	Adult Vocational Training Centre	MHA	Mental Health Association
BNA	British North America Act	MOT	Ministry of Transport
CAGPL	Canadian Arctic Gas Pipeline Limited	MP	Mile Post (Pipeline)
CAL	Calgary	MTL	Montreal
CARC	Canadian Arctic Resources Committee	MVPI	Mackenzie Valley Pipeline Inquiry
CC	Chamber of Commerce	NAG	Northern Assessment Group
CH	Charlottetown	NB	Nahanni Butte
CLC	Canadian Labour Congress	NCPC	Northern Canada Power Commission
CNR	Canadian National Railway	NEB	National Energy Board
CNT	Canadian National Telecommunications	NES	Northern Engineering Service Company Limited
COPE	Committee for Original Peoples Entitlement	NH and W	National Health and Welfare
CPAC/UAPPU	Canadian Pipeline Advisory Committee/United Association of Plumbing and Pipefitting Union	NIB	National Indian Brotherhood
CPR	Canadian Pacific Railway	NSH	North Star Harbour
CWS	Canadian Wildlife Service	NTCL	Northern Transportation Company Limited
CYI	Council for Yukon Indians	NW	Norman Wells
DEW	Distant Early Warning	NWT	Northwest Territories
DIAND	Department of Indian Affairs and Northern Development	OC	Old Crow
DND	Department of National Defence	OTT	Ottawa
DOE	Department of the Environment	PAAG	Pipeline Application Assessment Group
EDM	Edmonton	PAUL	Paulatuk
EMR	Department of Energy, Mines and Resources	PP	Pine Point
EPB	Environment Protection Board	RE	Rae/Edzo
E-SP	Environmental - Social Program	REG	Regina
FF	Fort Franklin	RL	Rae Lakes
FGH	Fort Good Hope	RMP	River Mile Post
FL	Fort Liard	ROW	Right of Way
FMcP	Fort McPherson	SACHS	Sachs Harbour
FN	Fort Norman	STOL	Short Take Off and Landing
FP	Fort Providence	TL	Trout Lake
FPC	Federal Power Commission	TOR	Toronto
FR	Fort Resolution	TUK	Tuktoyaktuk
FS	Fort Simpson (Volumes C-25, C-26, C-27)	VAN	Vancouver
FS	Fort Smith (Volume C-33)	WH	Whitehorse
GPC-D	Gas Producing Companies - Delta	WINN	Winnipeg
GPC-D-G	Gas Producing Companies - Delta-Gulf	WL	Willow Lake
GPC-D-I	Gas Producing Companies - Delta-Imperial	WPYR	White Pass and Yukon Route
GPC-D-S	Gas Producing Companies - Delta-Shell	WR	Wrigley
GSC	Geological Survey of Canada	YK	Yellowknife
HAL	Halifax	YNB	Yukon Native Brotherhood
HOL	Holman Island	YT	Yukon Territory
HR	Hay River		
IAA	Indian Association of Alberta		
IB/NWT	Indian Brotherhood of Northwest Territories		
IBP	International Biological Programme		
IN	Inuvik		
ITC	Inuit Tapirisat of Canada		
JMR	Jean Marie River		
KL	Kakisa Lake		
LA	Legislative Assembly		

ALPHABETICAL LISTING
OF WITNESSES
AT THE FORMAL HEARINGS

WITNESS - ABBOTT (COPE)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
184	28426-41	Sept. 14	YK	Bayly	COPE/ITC	Evidence in chief, read in by J.D. Atcheson

WITNESS - ADAM (EPB)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
46	6024-26	June 2	YK	Goudge	MVPI	Evidence in chief
	6101-19			Templeton	EPB	Evidence in chief
47	6299-6313	June 3		Templeton		Evidence in chief
48	6400-06 6407-10	June 4		Templeton		Evidence in chief Evidence in chief
72	10777-86	Oct. 15		Berger		Cross-examination
	10787-812			Marshall	CAGPL	Cross-examination
107	16347-51	Jan. 12		Anthony	CARC	Cross-examination
	16360-64			Anthony		Cross-examination
108	16482-91	Jan. 13		Hollingworth	FOOTHILLS	Cross-examination
	16494-			Hollingworth		Cross-examination
	16496-99			Marshall		Cross-examination
	16500-04			Marshall		Cross-examination
109	16633-35	Jan. 14		Scott	MVPI	Cross-examination
	16640-41			Scott		Cross-examination
	16685-			Scott		Cross-examination

WITNESS - ALLISON (COPE)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
140	21301-02	Apr. 8	YK	Bayly	COPE/ITC	Evidence in chief
	21356-68			Bayly		Evidence in chief
	21447-48			Hollingworth	FOOTHILLS	Cross-examination
	21511-13			Hollingworth	FOOTHILLS	Cross-examination

WITNESS - APPLETON (DELTA GAS PRODUCERS)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
116	17640-41	Jan. 24	IN	Ballem	GPC-D	Evidence in chief
	17644-45			Ballem		Evidence in chief
	17674-75			Hollingworth	FOOTHILLS	Cross-examination
	17678-79			Hollingworth		Cross-examination
	17684-			Bayly	COPE/ITC	Cross-examination
	17701-10			Bayly		Cross-examination
	17713-18			Bayly		Cross-examination
	17720-			Bayly		Cross-examination
	17724-25			Bayly		Cross-examination
	17731-32			Bayly		Cross-examination
117	17761-	Jan. 26		Bayly		Cross-examination
	17767-72			Goudge	MVPI	Cross-examination
	17778-			Goudge		Cross-examination
	17782-			Goudge		Cross-examination
	17785-	Jan. 26		Goudge		Cross-examination
	17802-			Goudge		Cross-examination
	17808-			Goudge		Cross-examination
	17819-20			Ballem		Re-direct examination

WITNESS - ASCH (NWT IB/MA)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
148	22627-29 22674-737	Apr. 29	YK	Bell Bell	NWT IB/MA	Swearing in, biographical information Evidence in chief
160	24621-41 24658-67 24681-87 24704-10 24710-13 24713-65	July 8		Bell Bayly Steeves Steeves MacQuarrie Scott	COPE/ITC CAGPL MHA/NWT MVPI	Evidence in chief Cross-examination Cross-examination Cross-examination Cross-examination Cross-examination

WITNESS - ASHTON (NWT/CC)

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175	27220 27244-53 27305-18 27340-41	Aug. 23	YK	Searle Searle Bayly Roland	NWT/CC COPE/ITC NVPI	Direct examination Evidence in chief Cross-examination Cross-examination

WITNESS - ATCHESON (COPE)

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184	28419-22 28469-88 28488-95 28498-511 28514-27 28528-37	Sept. 14	YK	Bayly Bayly Sigler MacQuarrie Steeves Scott	COPE/ITC NWT/AM MHA/NWT CAGPL MVPI	Direct examination Evidence in chief Cross-examination Cross-examination Cross-examination Cross-examination

WITNESS - BANFIELD (CAGPL)

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51	6772-76 6876-80	Aug. 11	WH	Marshall Anthony	CAGPL CARC	Swearing in Cross-Examination
52	6882-900 6914-16 6928-35 6954 6969-71 6988-7011 7018-20 7048-55	Aug. 12		Anthony Anthony Anthony Anthony Marshall Veale Veale Templeton		Cross-Examination Cross-Examination Cross-Examination Cross-Examination Evidence in Chief Cross-Examination Cross-Examination Cross-Examination
53	7078-79 7085-87 7096-101 7113 7140-42 7160-62	Aug. 13		Bayly Bayly Bayly Bayly Goudge	COPE/ITC MVPI	Cross-Examination Cross-Examination Cross-Examination Cross-Examination Cross-Examination
54	7439	Aug. 14		Berger		Evidence
55	7648-64	Aug. 15		Marshall	CAGPL	Rebuttal evidence re: Dr. Weedon's testimony
89	13509-26 13530	Nov. 18	YK	Marshall Marshall		Evidence in chief Evidence in chief
90	13595 13660-63	Nov. 19		Anthony Marshall		Cross examination Evidence in chief
92	14013-16	Nov. 21		Bayly		Cross-examination

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	14147-48			Bayly	COPE/ITC	Cross-examination
94	14210-13	Dec. 2		Bayly		Cross-examination
	14263			Bayly		Cross-examination
	14268-69			Bayly		Cross-examination
	14282			Bayly		Cross-examination
	14296-98			Bayly		Cross-examination
	14311			Bayly		Cross-examination
	14330-34			Bayly		Cross-examination
	14338			Bayly		Cross-examination
	14355-57			Bayly		Cross-examination
95	14371-80	Dec. 3		Bayly		Cross-examination
	14384-87			Bayly		Cross-examination
	14389-91			Bayly		Cross-examination
	14397-400			Bayly		Cross-examination
	14402			Bayly		Cross-examination
	14405			Bayly		Cross-examination
	14419-20			Bayly		Cross-examination
	14422-31			Bayly		Cross-examination
	14436			Bayly		Cross-examination
	14438-41			Bayly		Cross-examination
	1447-48			Bayly		Cross-examination
	14452			Bayly		Cross-examination
	14454-55			Bayly		Cross-examination
	14458-60			Bayly		Cross-examination
	14464-66			Bayly		Cross-examination
	14470-71			Bayly		Cross-examination
	14489-94			Bayly		Cross-examination
	14496-504			Bayly		Cross-examination
96	14547	Dec. 4		Veale	CYI	Cross-examination
	14560			Veale		Cross-examination
	14564			Veale		Cross-examination
	14567-69			Veale		Cross-examination
	14574-79			Veale		Cross-examination
	14581			Veale		Cross-examination
	14655-59			Veale		Cross-examination
	14663			Veale		Cross-examination
	14682			Veale		Cross-examination
97	14710-13	Dec. 5		Marshall	CAGPL	Direct examination
	14730			Bell	NWT IB/MA	Cross-examination
	14781-89			Templeton	EPB	Cross-examination
	14791-92			Templeton		Cross-examination
98	14937-41	Dec. 8		Scott	MVPI	Cross-examination
	15001			Scott		Cross-examination
99	15059-64	Dec. 9		Scott		Cross-examination
	15076-82			Scott		Cross-examination
135	20519-20	Mar. 25		Hollingsworth	FOOTHILLS	Cross-examination
	20546-47			Scott		Cross-examination
136	20619-20	Mar. 26		Marshall		Re-direct examination
	20627			Marshall		Re-direct examination

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192	29874-76	Oct.4	YK	Goudge	MVPI	Direct examination
	29878-37			Goudge		Evidence in chief
	29944-61			Bayly	COPE/ITC	Cross-examination
	29962-64			Goudge		Re-examination

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	22002-08			Bell		Evidence in chief
	22072-76			Sigler	NWT AM	Cross-examination
	22077-80			Scott	MVPI	Cross-examination

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121	18363-64	Feb. 10	IN	Bayly	COPE/ITC	Evidence in chief
	18438-62			Bayly		Evidence in chief
122	18564-69			Evans	CARC	Cross-examination
	18571-99			Evans		Cross-examination
	18634-			Evans		Cross-examination
	18657-58			Goudge	MVPI	Cross-examination
	18661			Goudge		Cross-examination
	18666			Goudge		Cross-examination
	18704			Goudge		Cross-examination
	18718			Goudge		Cross-examination

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186	28817-19	Sept.16	YK	Scott	MVPI	Direct examination
	28820-27			Scott		Evidence in chief
	28827-71			Bayly	COPE/ITC	Cross-examination

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61-A	8710-18	Sep.15	YK	Gibbs	Foothills	Swearing in; Biographical Information; Evidence in Chief
62	8775-76	Sep.16		Marshall	CAGPL	Cross-examination
	8789-91			Bayly	COPE/ITC	Cross-examination
	8859-67			Scott	MVPI	Cross-examination
65	9605-13	Sep.19		Hollingworth	Foothills	Direct examination
	9639			Hollingworth		Direct examination
66	9674	Sep.22		Genest	CAGPL	Cross-examination
	9676-87			Genest		Cross-examination
	9691-97			Genest		Cross-examination
	9752-53			Genest		Cross-examination
	9757			Genest		Cross-examination
	9773			Genest		Cross-examination
	9780			Genest		Cross-examination
67	9839-40	Sep.23		Templeton	EPB	Cross-examination
	9843			Templeton		Cross-examination
	9888-9895			Bel'	NWT IB/MA	Cross-examination
	9913			Scott		Cross-examination
	9934-37			Scott		Cross-examination
	9944-47			Scott		Cross-examination
	9950-58			Scott		Cross-examination
	10026			Hollingworth		Re-direct examination

WITNESS - BEAKHUST (COPE/ITC)

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167	25935-57	July 21		Bayly		Evidence in chief
	25968-70			Hollingworth	Foothills	Cross-examination
199	31501-50	Oct.15		Bayly		Evidence in chief
	31603-05			Scott	MVPI	Cross-examination

WITNESS - BEAN (NWT IB/MA)

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144	22001-02	Apr. 15	YK	Bell	NWT IB/MA	Swearing in, biographical information
	22027-67			Bell		Evidence in chief
150	22957-58	May 4		Sigler	NWT AM	Cross-examination
	22973-80			Sigler		Cross-examination
	22980-23008			Hollingworth	FOOTHILLS	Cross-examination
	23010-11			Hollingworth		Cross-examination
	23014-23			Steeves	CAGPL	Cross-examination
	23024-30			Goudge	MVPI	Cross-examination
	23033-37			Steeves		Cross-examination

WITNESS - BEER (FOOTHILLS)

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63	8992-9011	Sept. 17	YK	Gibbs	Foothills	Swearing in; Biographical Information; Evidence in Chief
	9028-33			Marshall	CAGPL	Cross-Examination
	9092-112			Scott	MVPI	Cross-Examination

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	21558-59			Bayly	COPE/ITC	Cross-examination
	21583			Bayly		Cross-examination
	21588-91			Bayly		Cross-examination
	21595-96			Bayly		Cross-examination
	21613-15			Bell	NWT IB/MA	Cross-examination
	21635			Bell		Cross-examination
143	21677	Apr. 14		Scott	MVPI	Cross-examination
	21687-88			Scott		Cross-examination
	21695-98			Scott		Cross-examination
	21711			Scott		Cross-examination
	21718			Scott		Cross-examination
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	2290-92			Genest		Evidence in chief
XX	2296-2312	Mar. 18		Genest		Evidence in chief
	2343-45		Genest			
	2363-64		Berger		Reply to question	
	2365-72		Genest		Evidence in chief	
	2383-2405		Genest			
XXI	2420-21	Mar. 19		Genest		Evidence in chief
	2441		Berger		Reply to question	
	2472-86		Genest		Evidence in chief	
XXII	2532-46	Mar. 20		Hollingsworth	Foothills	Cross Examination
	2548-60		Anthony	CARC	Cross Examination	
	2595-99					
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	2675-2707	Mar. 21		Templeton	EPB	Cross Examination
	2707-08		Berger	Reply to question		
	2709-18		Templeton	Cross Examination		
	2718-24		Berger	Reply to question		
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XXIV	2768-78		Apr. 7			Bell
	2789	Lane		COPE/ITC	Reply to question	
	2791-93	Lane			Cross Examination	
	2797-99	Lane			Cross Examination	
	2810-11	Lane			Cross Examination	
	2820-28	Lane			Cross Examination	
	2845-47	Lane			Cross Examination	
	2849-53	Lane			Cross Examination	
	2854	Lane			Cross Examination	
	2857-2861	Lane			Cross Examination	
	2862-64	Lane			Cross Examination	
2864-76	Lane		Cross Examination			
XXIV-A	2878-2891	Apr. 7	YK	Scott	MVPI	Cross examination
	2897			Scott		Reply to question
	2902-04			Scott		Reply to question
	2905-06			Scott		Cross examination
	2907			Scott		Cross examination
	2941			Scott		Reply to question
	2944			Scott		Reply to question
XXV	2953-2961	Apr. 8		Genest		Evidence in chief
	3058-60		Scott		Cross examination	

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	3119-20			Scott		Reply to question
	3142			Scott		Reply to question
	3144			Scott		Reply to question
	3152-54			Scott		Cross examination
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	3240			Scott		Reply to question
	3252			Scott		Reply to question
	3252			Berger		Reply to question
	3263			Berger		Reply to question
	3263-72			Scott		Reply to question
XXVII	3278	Apr. 10		Genest		Correction
XXVIII	3437-41	Apr. 11		Scott		Cross examination
	3446-47			Scott		Cross examination
XXVIII	3456-66	Apr. 11	YK	Scott	MVPI	Cross examination
	3472-73			Scott		Reply to question
	3477-97			Scott		Cross examination
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XXIX	3571-72	Apr. 14		Scott		Reply to question
	3573-75			Scott		Cross examination
	3583-3625			Scott		Cross-examination
	3629-30			Scott		Cross-examination
51	6770-71	Aug. 11	WH	Marshall	CAGPL	Swearing in
52	6916-19	Aug. 12		Anthony	CARC	Cross-Examination
	6926-27			Anthony		Cross-Examination
	6943-51			Anthony		Cross-examination
53	7101	Aug. 13		Bayly	COPE/ITC	Cross-Examination
	7107-08			Bayly		Cross-Examination
	7154-58			Goudge	MVPI	Cross-Examination
73	10825-28	Oct. 16	YK	Genest	CAGPL	Evidence in chief
	10830-33			Genest		Evidence in chief
	10918-20			Genest		Evidence in chief
	10944-47			Genest		Evidence in chief
79	11690	Nov. 3		Marshall	CAGPL	Evidence in chief
	11710			Marshall	FOOTHILLS	Evidence in chief
80	11799-807	Nov. 4		Hollingworth	FOOTHILLS	Cross-examination
	11809			Hollingworth		Cross-examination
	11813-26			Hollingworth		Cross-examination
	11830-33			Hollingworth		Cross-examination
	11841-43			Hollingworth		Cross-examination
	11845-48			Hollingworth		Cross-examination
	11876			Anthony	CARC	Cross-examination
	11878-79			Anthony		Cross-examination
	11881			Anthony		Cross-examination
	11895			Anthony		Cross-examination
	11898			Anthony		Cross-examination
	11906			Anthony		Cross-examination
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	12036-40			Bayly		Cross-examination
	12061-63			Bayly		Cross-examination
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82	12180	Nov.6		Veale	CYI	Cross-examination
	12187-88		Veale		Cross-examination	
	12276-78		Scott	MVPI	Cross-examination	
	12280		Scott		Cross-examination	
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	12296			Scott		Cross-examination
130	19781-82	Mar.16		Marshall	CAGPL	Evidence in chief
	19825		Marshall		Evidence in chief	
	19828-30		Marshall		Evidence in chief	
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131	19843-44	Mar.17		Gibbs	Foothills	Cross-examination
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	19885-86		Gibbs		Cross-examination	
	19898		Gibbs		Cross-examination	
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132	20034-36	Mar.18		Goudge	MVPI	Cross-examination
	20038		Goudge		Cross-examination	
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	22174			Scott	MVPI	Cross-examination
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XXI	2442-71	Mar.19		Genest		
	2486			Berger		Reply to question
	2500-01			Hollingworth	Foothills	Cross Examination
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XXV	2964-75	Apr.8		Scott		Cross Examination
	2979-80			Scott		Reply to question
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	3062-83			Scott		Cross examination
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XXVI	3101-3106	Apr.9		Scott		Cross examination
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XXVIII	3436	Apr.11		Scott		Cross examination
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XXIX	3562-64	Apr.14		Marshall	CAGPL	CAGPL Undertakings
131	20004-06	Mar. 17	YK	Lane	COPE/ITC	Cross-examination
132	20032-34	Mar. 18		Goudge	MVPI	Cross-examination
	20047			Goudge		Cross-examination
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	21440-46			Bayly		Evidence in chief
	21449			Hollingworth	FOOTHILLS	Cross-examination
	21463-65			Hollingworth		Cross-examination
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107	16319-22	Jan.12		Anthony	CARC	Cross-examination
108	16384-88	Jan.13		Bayly	COPE/ITC	Cross-examination
	16494			Hollingworth	FOOTHILLS	Cross-examination
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	28943-44			Sigler	NWT/AM	Cross-examination
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	11759-67			Hollingworth		Cross-examination	
80	11770-800			Nov. 4		Hollingworth	Cross-examination
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	11909-10	Anthony	CARC		Cross-examination		
	11919-22	Anthony			Cross-examination		
	11926-28	Anthony			Cross-examination		
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81	11959-62	Nov. 5	Marshall		CAGPL	Evidence in chief	
	11964-71		Anthony			Cross-examination	
	11979		Anthony		Cross-examination		
	12058-60		Bayly	COPE/ITC	Cross-examination		
	12074-76		Bayly		Cross-examination		
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	12140-49	Bayly			Cross-examination		
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90	13571-86	Nov. 19		Anthony	CARC	Cross-examination
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	13602-29			Anthony		Cross-examination
	13632-35			Anthony		Cross-examination
	13637-38			Anthony		Cross-examination
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90	13692-707	Nov. 19	YK	Bayly	COPE/ITC	Cross-examination
	13709			Bayly		Cross-examination
	13718-25			Bayly		Cross-examination
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133	20138-41	Mar. 23		Marshall	CAGPL	Evidence in chief
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	20205-06			Bayly		Cross-examination
134	20209	Mar. 24		Bayly		Cross-examination
	20280-83			Hollingworth	FOOTHILLS	Cross-examination
135	20454-57	Mar. 25		Scott	MVPI	Cross-examination
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195A	30689-709	Oct. 7		Bayly	COPE/ITC	Cross-examination
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	27070			Hollingworth	Foothills	Cross-examination
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XVI	1748-52 1755-83 1791-94 1795-1809 1816-30 1837-40 1840-42 1842-45 1846-70 1871-74	Mar.12		Gibbs Berger Gibbs Anthony Berger Anthony Berger	Foothills CARC	Cross examination Reply to question Cross examination Cross examination Reply to question Cross examination Reply to question
XVIII	1877-79 1886-88 1895-98 1898-1910 1912-14 1917-23 1946-52 1960 1964-67 1974-75 1980-81 1993-2000 2004 2011-17 2024-45	Mar.13		Anthony Bell Bayly Berger	NWT IB/MA COPE/ITC	CAGPL undertaking fulfilled Cross examination Cross examination Reply to question Cross examination
XVIII	2046-56 2074-2120 2122-26	Mar.14		Bayly Scott	MVPI	Cross examination Cross examination Reply to question
XXXIII	4231-54 4262-65 4281-88 4290-4306 4323-40 4352-53 4355-71	Apr.21		Genest Genest Genest Genest Genest Genest Genest	CAGPL	Evidence in chief Evidence in chief Evidence in chief Evidence in chief Evidence in chief Evidence in chief Evidence in chief
XXXIV	4384 4386-4409 4411-28 4431-43 4445-47 4454 4457-67 4469-73 4476-82 4487 4502-06 4518-19 4540	Apr.22		Genest Veale Veale Veale Veale Veale Veale Veale Veale Veale Hollingworth Hollingworth	CYI Foothills	Evidence in chief Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination Cross examination
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53	7079-80	Aug.13		Bayly	COPE/ITC	Cross-examination
	7102-07			Bayly		Cross-examination
68	10130-36	Sept.24	YK	Genest	CAGPL	Evidence in chief
	10136-48			Goudge	MVPI	Cross-examination
	10148-50			Hollingworth	Foothills	Cross-examination
	10155-56			Hollingworth		Cross-examination
	10158			Hollingworth		Cross-examination
	10159-62			Bell	NWT IB/MA	Cross-examination
	10175-77			Genest		Evidence in chief
	10182-83			Goudge		Cross-examination
91	13846-62	Nov.20		Gibbs	Foothills	Cross-examination
	13865-92			Gibbs		Cross-examination
	13893-95			Goudge		Cross-examination
	13895-97			Marshall	CAGPL	Re-direct examination
	13898			Gibbs		Re-cross examination
195	30603A-18	Oct.7	YK	Marshall		Evidence in chief
	30655-79			Veale	CYI	Cross-examination
195A	30697-705	Oct.7		Bayly		Cross-examination
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137	20793-814	Apr. 5		Goudge	MVPI	Evidence in chief
	20815-37			Boily	COPE/ITC	Cross-examination
	20841-62			Hollingworth	FOOTHILLS	Cross-examination
	20862-70			Marshall	CAGPL	Cross-examination
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97	14731-34	Dec. 5		Bell	NWT IB/MA	Cross-examination
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	19005-18			Evans		CARC	Cross-examination
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61	8625-31	Sep.15		Gibbs	Foothills	Evidence in Chief
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62	8888-93	Sep.16	YK	Gibbs		Evidence in Chief
	8903-04			Carter	CAGPL	Cross Examination
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63	8970-78	Sep.17		Gibbs		Evidence in Chief
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	21057-64			Bayly		Cross-examination
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139	21095	Apr. 7		Bayly		Cross-examination
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75	11025-31	Oct.20	YK	Anthony		Evidence in chief
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	8904-22			Carter	CAGPL	Cross Examination
	8927-41			Carter		Cross Examination
	8941-47			Bell	NWT IB/MA	Cross Examination
	8947-57			Bayly	COPE/ITC	Cross Examination
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	29123-25			Noble	COPE	Cross-examination
	29125-31			Steeves	CAGPL	Cross-examination
	29132-51			Scott		Re-examination

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	18462-87			Bayly		Evidence in chief
122	18489-97	Feb. 11		Bayly		Evidence in chief
	18519-22			Bayly		Evidence in chief
	18571			Evans	CARC	Cross-examination
	18612-22			Evans		Cross-examination
	18639			Evans		Cross-examination
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115	17454-56	Jan. 22		Bayly	COPE/ITC	Cross-examination
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	23472-508			Bayly	COPE/ITC	Cross-examination
	23509-12			Hollingworth	Foothills	Cross-examination
	23512-22			Roland	MVPI	Cross-examination
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	18118-40			Goudge	MVPI	Cross-examination
124	18872-96	Feb. 13		Bayly		Evidence in chief
125	19019	Feb. 14		Evans	CARC	Cross-examination
	19023-24			Evans		Cross-examination
	19024-27			Marshall	CAGPL	Cross-examination
	19029-45			Goudge		Cross-examination
	19049			Goudge		Cross-examination
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	9201-205			Marshall	CAGPL	Cross Examination
64	9270	Sep.18		Bayly	COPE/ITC	Cross Examination

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	17838-42			Bell		Cross-examination
	17844-50			Bell		Cross-examination
	17852-54			Bell		Cross-examination
	17856-57			Bell		Cross-examination
	17860-66			Bell		Cross-examination
	17863-74			Bell		Cross-examination
	17874-75			Bayly	COPE/ITC	Cross-examination
	17879-86			Bayly		Cross-examination
	17888-90			Bayly		Cross-examination
	17892-902			Bayly		Cross-examination
	17905-16			Bayly		Cross-examination
118	17919-24	Jan. 27		Bayly		Cross-examination
	17926-28			Bayly		Cross-examination
	17931-32			Bayly		Cross-examination
	17934-40			Bayly		Cross-examination
	17946			Goudge	MVPI	Cross-examination
	17950-72			Goudge		Cross-examination
	17974			Goudge		Cross-examination
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	20898-914			Goudge		Evidence in chief
138	20985-86	Apr. 6		Bell	NWT IB/MA	Cross-examination
	20988-94			Hollingsworth	Foothills	Cross-examination
	21011			Veale	CYI	Cross-examination
	21030-33			Veale		Cross-examination
	21037			Bayly	COPE/ITC	Cross-examination
	21039			Bayly		Cross-examination
	21044-47			Bayly		Cross-examination
	21050-54			Bayly		Cross-examination
	21058-67			Bayly		Cross-examination
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	21078			Bayly		Cross-examination
139	21081	Apr. 7		Bayly		Cross-examination
	21095			Bayly		Cross-examination
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	21114-17			Bayly		Cross-examination
	21120-22			Bayly		Cross-examination
	21127-31			Bayly		Cross-examination
	21135-51			Bayly		Cross-examination
	21175-77			Goudge		Re-direct examination

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150	22906-07	May 4		Sigler	NWT AM	Cross-examination
	22907-24			Hollingsworth	Foothills	Cross-examination
	22924-28			Steeves	CAGPL	Cross-examination
	22928-38			Goudge	MVPI	Cross-examination
	22938-40			Bell		Evidence in chief

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	30878-86			Evans		Evidence in chief
	30908-11A			MacLachlan	Foothills	Cross-examination
	30912-19			Steeves	CAGPL	Cross-examination
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	22776-78			Bell		Evidence in chief
	22801-02			Steeves	CAGPL	Cross-examination

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	2179-80					
XX	2312-41	Mar.18		Genest		Evidence in chief
XXII	2562-80	Mar.20		Anthony	CARC	Cross Examination
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XXVI	3129-3133 3134-42	Apr.9		Scott		Cross examination
	.3143-44 3145			Scott		Reply to question
	3147-51 3154-74 3179-85 3186-3203 3206-10			Scott		Cross examination
	3211-13			Scott		Reply to question
	3223-39 3241-45			Scott		Cross examination
	3247 3250 3251			Scott		Reply to question
	3253-63 3273-76			Scott		Cross examination
XXVII	3280	Apr.10		Scott		Reply to question
	3210-15 3350-60			Scott		Cross examination
XXVII	3362-63	Apr,10	YK	Scott	MVPI	Cross-examination
	3364-66			Scott		Cross-examination
	3368-72			Scott		Cross-examination
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	3415-19			Scott		Cross-examination
	3423-27			Scott		Cross-examination
XXVIII	3447-51	Apr.11		Scott		Cross-examination
	3473-75			Scott		Cross-examination
73	10837	Oct. 16		Genest	CAGPL	Evidence in chief
	10839-57			Genest		Evidence in chief
	10894-91			Genest		Evidence in chief
	10924-26			Genest		Evidence in chief
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	23165			Veale		Evidence in chief
	23178-80			Bell	NWT IB/MA	Cross-examination
	23196-203			Steeves	CAGPL	Cross-examination
	23208			Bell		Cross-examination
	23211-12			Steeves		Cross-examination

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	29392-94			Bayly	COPE/ITC	Cross-examination
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	18497-18			Bayly		Evidence in chief
	18639-41			Evans	CARC	Cross-examination
	18706-12			Evans		Cross-examination
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	22162-63			Steeves	CAGPL	Cross-examination
	22174-75			Scott	MVPI	Cross-examination
	22179-81			Scott		Cross-examination
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	19120-42			Bayly		Evidence in chief
126	19161	Feb. 16		Evans	CARC	Cross-examination
	19164			Evans		Cross-examination
	19169-70			Evans		Cross-examination
	19174-78			Evans		Cross-examination
	19189-200			Evans		Cross-examination
	19204			Hollingworth	Foothills	Cross-examination
	19216			Hollingworth		Cross-examination
	19219			Hollingworth		Cross-examination
	19222-29			Hollingworth		Cross-examination
	19239-41			Marshall	CAGPL	Cross-examination
	19246-55			Marshall		Cross-examination
	19261-62			Goudge	MVPI	Cross-examination
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	28881-907			Bayly		Evidence in chief
	28937-45			Sigler	NWT/AM	Cross-examination
	28948-51			Bell	NWT IB/MA	Cross-examination
	28951-61			Scott	MVPI	Cross-examination
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	22525-33			Bell	NWT IB/MA	Evidence in chief
	22559-63			Hollingworth	Foothills	Cross-examination
	22584-87			Scott	MVPI	Cross-examination
	22623-25			Bell		Re-examination

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	9307-11			Hollingworth		Evidence in chief	
	9410-36			Bayly		COPE/ITC	Cross-examination
65	9461-64	Sept. 19		Marshall	CAGPL	Cross-examination	
	9472			Marshall		Cross-examination	
	9480-90			Marshall Bell		NWT IB/MA	Cross-examination
	9495			Scott		MVPI	Cross-examination
	9497-9499			Scott			Cross-examination
	9504			Scott			Cross-examination
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	19662-86			Evans		CARC	Cross-examination
	19692-96			Bayly		COPE/ITC	Cross-examination

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136	20630-35	Mar. 26		Scott	CAGPL	Evidence in chief	
	20635-53			Marshall		Foothills	Cross-examination
	20653-60			Hollingworth		COPE/ITC	Cross-examination
	20660-67			Bayly			Cross-examination
	20677-78			Hollingworth			Cross-examination
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	7222-24			Hollingworth		Foothills	Cross Examination
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	17535-50			Ballem		Evidence in chief			
	17551-55			Hollingworth		Foothills	Cross-examination		
	17557-58			Bayly		COPE/ITC	Cross-examination		
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	17562-65			Bayly			Cross-examination		
	17567-69			Bayly			Cross-examination		
	17572-82			Bayly			Cross-examination		
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116	17605-09			Jan. 24			Bayly	MVPI	Cross-examination
	17613						Bayly		Cross-examination
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	26212-82			Bell		Evidence in chief
	26326-37			Bayly	COPE/ITC	Cross-examination
	26356-64			Goudge	MVPI	Cross-examination

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	15755-88			Anthony		Evidence in chief
104	15872-77	Dec. 16		Anthony		Evidence in chief
	15880			Bayly	COPE/ITC	Cross-examination
	15885			Bayly		Cross-examination
	15888-92			Bayly		Cross-examination
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	15964-68			Bayly		Cross-examination
105	15976	Dec. 17		Hollingsworth	Foothills	Cross-examination
	15986-87			Hollingsworth		Cross-examination
	15998			Marshall	CAGPL	Cross-examination
	16011			Marshall		Cross-examination
	16022			Marshall		Cross-examination
	16030			Marshall		Cross-examination
	16034			Marshall		Cross-examination
	16046-47			Marshall		Cross-examination
	16056			Marshall		Cross-examination
	16059-64			Marshall		Cross-examination
	16075			Ryder	MVPI	Cross-examination
	16079-85			Ryder		Cross-examination
	16092			Ryder		Cross-examination
	16097-99			Ryder		Cross-examination
	16102			Ryder		Cross-examination
	16103-04			Ryder		Cross-examination
	16107-09			Ryder		Cross-examination
	16114-19			Ryder		Cross-examination

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	15720-43			Anthony		Evidence in chief
	15798-800			Bell	NWT IB/MA	Cross-examination
	157801-12			Marshall	CAGPL	Cross-examination
	15814-38			Marshall		Cross-examination
104	15841-69	Dec. 16		Bayly	COPE/ITC	Cross-examination
	15870-76			Anthony		Evidence in chief
	15879-85			Bayly	COPE/ITC	Cross-examination
	15896-905			Bayly		Cross-examination
	15926-27			Bayly		Cross-examination
	15935-37			Bayly		Cross-examination
	15939-42			Bayly		Cross-examination
	15951-52			Bayly		Cross-examination
	15956-62			Bayly		Cross-examination
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	15987-92			Hollingworth		Cross-examination
	15996			Hollingworth		Cross-examination
	16001-05			Marshall	CAGPL	Cross-examination
	16008			Marshall		Cross-examination
	16015-16			Marshall		Cross-examination
	16019-20			Marshall		Cross-examination
	16022			Marshall		Cross-examination
	16024-30			Marshall		Cross-examination
	16046-55			Marshall		Cross-examination
	16060			Marshall		Cross-examination
	16071-73			Marshall		Cross-examination
	16075			Ryder	MVPI	Cross-examination
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	16087			Ryder		Cross-examination
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	16106-07			Ryder		Cross-examination
	16112-13			Ryder		Cross-examination
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	16125-26			Hollingworth		Cross-examination

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122	18552-61	Feb. 11		Hollingworth	Foothills	Cross-examination
	18569-70			Evans	CARC	Cross-examination
	18594-95			Evans		Cross-examination
	18599-605			Evans		Cross-examination
	18637-38			Evans		Cross-examination
	18643-45			Marshall	CAGPL	Cross-examination
	18656			Goudge	MVPI	Cross-examination
	18658			Goudge		Cross-examination
	18660			Goudge		Cross-examination
	18692-705			Goudge		Cross-examination

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138	20997-21003	Apr. 6		Hollingworth	Foothills	Cross-examination
	21010-11			Veale	CYI	Cross-examination
	21030			Veale		Cross-examination
	21033-35			Bayly	COPE/ITC	Cross-examination
	21037-38			Bayly		Cross-examination
	21040-46			Bayly		Cross-examination
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	16388-89			Bayly		Cross-examination		
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	16529	Carter	CAGPL		Cross-examination			
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52	7017-20	Aug.12		Veale	CYI	Cross Examination
53	7060-77	Aug.13		Bell	NWT IB/MA	Cross Examination
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158	24241-71	July 6	YK	Steeves	CAGPL	Evidence in chief
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159	24349-57	July 7		Steeves		Evidence in chief
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75	11034-36	Oct. 20	YK	Marshall		Cross-examination
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	18734-51			Goudge		Evidence in chief
	18754-55			Hollingsworth	Foothills	Cross-examination
	18755-59			Evans	CARC	Cross-examination
	18767-70			Evans		Cross-examination
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	23930-44			Bell		Evidence in chief
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	9334-50			Marshall		Cross-examination
65	9495	Sept. 19		Scott	MVPI	Cross-examination
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102	15543-45	Dec. 12		Lutes		Cross-examination
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	31588-99			MacQuarrie	MHA/NWT	Cross-examination
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OF WITNESSES
AT THE COMMUNITY HEARINGS

ALPHABETICAL LISTING OF WITNESSES AT THE COMMUNITY HEARINGS

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COMMUNITIES - RAE/EDZO
COMMUNITIES - RAE LAKES
COMMUNITIES - TROUT LAKE
COMMUNITIES - TUKTOYAKTUK
COMMUNITIES - WHITEHORSE
COMMUNITIES - WRIGLEY
COMMUNITIES - YELLOWKNIFE
community control: DECISION MAKING - PUBLIC INPUT
companies: CAGPL; COMMERCIAL INSTITUTIONS/SERVICES; FOOTHILLS; GAS PRODUCING COMPANIES - DELTA; PARTICIPANTS
COMPANIES AND INSTITUTIONS INVOLVED IN RESEARCH
COMPENSATION (also: DECISION MAKING - NATIVE INPUT; NATIVE LAND CLAIMS)
COMPRESSOR STATIONS
concrete: FOUNDATIONS AND PADS; PIPELINE - BUOYANCY
CONNECTING PIPELINE FACILITIES
CONSTRUCTION - ACCIDENTS
CONSTRUCTION - ARCTIC AND CONVENTIONAL METHODS
CONSTRUCTION - EQUIPMENT AND MATERIALS
CONSTRUCTION - FORCE (also: CONSTRUCTION - SPREADS; CONSTRUCTION CAMPS; EMPLOYMENT; LABOUR FORCE)
CONSTRUCTION - GENERAL
CONSTRUCTION - INSPECTION AND SUPERVISORY PERSONNEL
CONSTRUCTION - SCHEDULING
CONSTRUCTION - SPREADS
construction supervision: CONSTRUCTION - INSPECTION AND SUPERVISORY PERSONNEL
construction surveys: PIPELINE - SURVEYS
construction wastes: FIRE - BURNING OF WASTES, SLASH, TIMBER; WASTE AND DISPOSAL - SOIL AND CONSTRUCTION WASTES, ETC.
CONSTRUCTION CAMPS - LOCATION AND ACCESS
CONSTRUCTION CAMPS - MANAGEMENT AND PERSONNEL
CONSTRUCTION CAMPS - SITES AND FACILITIES
construction cost: PIPELINE - PROJECT COST
consultation: DECISION MAKING - NATIVE INPUT
consultants: COMPANIES AND INSTITUTIONS INVOLVED IN RESEARCH
consumer society, conservation: ENERGY CONSERVATION; MORAL AND ETHICAL ISSUES
CONTINGENCY PLANS (also: PIPELINE - FAILURES AND REPAIRS)
CONTRACTORS
contracts: CONSTRUCTION - FORCE; EMPLOYMENT; LABOUR FORCE
continuous permafrost zone: PERMAFROST AND GROUND ICE
control: CONSTRUCTION - INSPECTION AND SUPERVISORY PERSONNEL; CONSTRUCTION CAMPS - MANAGEMENT AND PERSONNEL; LEGISLATION;
MONITORING; PIPELINE - SURVEYS; REGULATORY AGENCIES AND CODES
convection: GEOTHERMAL INFORMATION
conventional construction techniques: CONSTRUCTION - ARCTIC AND CONVENTIONAL METHODS
cooling: PIPELINE - CHILLING
co-operatives: COMMERCIAL INSTITUTIONS/SERVICES - OTHER
correctional institutes: LAW ENFORCEMENT

CORRIDOR CONCEPT
COST OF LIVING
cost, cost of service: GAS - COST; PIPELINE - PROJECT COST
corrosion prevention and control: PIPELINE - CORROSION PREVENTION AND CONTROL
Council for Yukon Indians: PARTICIPANTS - CYI
COUNCILS - BAND, HAMLET, ETC. (also: COMMUNITIES - GENERAL)
country food: TRADITIONAL FOODS
court cases and decisions: HISTORICAL BACKGROUND; LEGISLATION
crack arrestors: PIPELINE - FAILURE AND REPAIRS
credit unions: FINANCIAL INSTITUTIONS/SERVICES
CRIME (also: LAW ENFORCEMENT)
critical environmental areas: SENSITIVE ENVIRONMENTAL AREAS
cross delta route change: ROUTE - CROSS DELTA ROUTE CHANGE
CROSS EXAMINATION OF WITNESSES
crown lands: LAND - STATUS, TENURE
culture: IMPACT - CULTURAL; TRADITIONAL LIFESTYLES
CULVERTS (also: DRAINAGE AND EROSION - CONTROL MEASURES)
CURRENT WHITE/NATIVE RELATIONSHIPS
dall sheep: MAMMALS - DALL SHEEP
dams: HYDROELECTRIC DEVELOPMENT
decision making: PIPELINE - DESIGN
DECISION MAKING - NATIVE INPUT
DECISION MAKING - PUBLIC INPUT
defence: GOVERNMENT - FEDERAL - DEPARTMENT OF NATIONAL DEFENCE
delta: MACKENZIE DELTA
delta producers, companies: GAS PRODUCING COMPANIES - DELTA
delta route change: ROUTE - CROSS DELTA ROUTE CHANGE
demand for gas: GAS - SUPPLY, DELIVERY
Dempster highway: HIGHWAYS - DEMPSTER
Dene declaration: DECISION MAKING - NATIVE INPUT; DENE NATION
DENE NATION
denning sites: MAMMALS - DENNING SITES; TERRESTRIAL ECOSYSTEMS
departments of government: GOVERNMENT - FEDERAL
design, manuals: PIPELINE - DESIGN
DEVELOPMENT
DEVELOPMENT ALTERNATIVES
DEVELOPMENT BENEFITS
DEW line: GOVERNMENT - FEDERAL - DEPARTMENT OF NATIONAL DEFENCE
differential heave/settlement: PIPELINE - FROST, FROST HEAVE
discontinuous permafrost zone: PERMAFROST AND GROUND ICE
DISCRIMINATION
diseases: HEALTH CONDITIONS - PHYSICAL
disposal: PIPELINE - TESTING, TEST MEDIA AND DISPOSAL; WASTE AND DISPOSAL
distribution, population: POPULATION - DEMOGRAPHY; MAMMALS
disturbance: BIRDS - DISTURBANCE; MAMMALS - DISTURBANCE; NOISE
disturbance, terrain: DRAINAGE AND EROSION; SLOPE STABILITY; TERRAIN INFORMATION
ditching: PIPELINE - DITCHING
docks: TRANSPORTATION - WATER; WHARVES AND STOCKPILE SITES
doctors: HEALTH SERVICES - FACILITIES AND STAFF
DOMESTIC FISHING SITES
domestic problems: PERSONAL AND FAMILY PROBLEMS
Donnelly River: RIVERS - DONNELLY
double jointing: PIPELINE - WELDING
DRAINAGE AND EROSION
DRAINAGE AND EROSION - CONTROL MEASURES
dredging: LAKES; PIPELINE - DITCHING; RIVER CROSSINGS; TRANSPORTATION - MEN, MATERIAL, EQUIPMENT; TRANSPORTATION - WATER
drilling, drill hole data: PERMAFROST AND GROUND ICE; TERRAIN INFORMATION

drilling wells: GAS - SUPPLY, DELIVERY; GAS AND OIL WELLS

DRUG USE

dual river crossings: RIVER CROSSINGS

ducks: BIRDS - WATERFOWL

dust: AIR QUALITY, EMISSIONS

dykes: CONTINGENCY PLANS; FUELS AND OTHER TOXIC MATERIALS

eagles: BIRDS - OF PREY

earthquakes: SEISMICITY

east channel: RIVERS - MACKENZIE - SWIMMING POINT

Ebbutt Hills: PLACE NAMES; ROUTE - FORT SIMPSON ROUTE CHANGE

economic background: HISTORICAL BACKGROUND - ECONOMIC; EMPLOYMENT - NATIVE

ECONOMIC FACTORS AND INSTITUTIONS

ECONOMIC FACTORS RELATED TO THE PIPELINE (also: CAGPL - ORGANIZATION, FINANCING; FOOTHILLS - ORGANIZATION, FINANCING; PIPELINE - PROJECT COST)

economy: DEVELOPMENT BENEFITS; ECONOMIC FACTORS AND INSTITUTIONS; ECONOMIC FACTORS RELATED TO THE PIPELINE; IMPACT - ECONOMIC; NATIVE DEPENDENCE - WAGE ECONOMY; NORTHERN ECONOMY; ROYALTIES

edge of the Shield route: ALTERNATIVE TRANSPORTATION CORRIDORS

EDUCATION - ADULT, POST SECONDARY (also: TRAINING PROGRAMS)

EDUCATION (FORMAL) - FACILITIES, PROGRAMS

EDUCATION (FORMAL) - GENERAL

electricity: CORRIDOR CONCEPT; HYDROELECTRIC DEVELOPMENT

emergencies: CONTINGENCY PLANS; PIPELINE - FAILURES AND REPAIRS

emissions: AIR QUALITY, EMISSIONS

EMPLOYMENT - GENERAL (also: LABOUR FORCE)

EMPLOYMENT - GOVERNMENT

EMPLOYMENT - HIRE NORTH/WORK ARCTIC

EMPLOYMENT - NATIVE (also: DEVELOPMENT BENEFITS)

EMPLOYMENT - NORTHERNERS (also: EMPLOYMENT - NATIVE; LABOUR FORCE - COMPOSITION)

EMPLOYMENT - PIPELINE (PRIMARY)

EMPLOYMENT - PIPELINE RELATED (SECONDARY)

EMPLOYMENT - WOMEN

Empress: CONNECTING PIPELINE FACILITIES

Energy Board: GOVERNMENT - FEDERAL - NATIONAL ENERGY BOARD

ENERGY CONSERVATION (also: MORAL AND ETHICAL ISSUES)

enforcement: PIPELINE - ENFORCEMENT OF PERMIT AGREEMENT; REGULATORY AGENCIES AND CODES

Enterprise: COMMUNITIES - OTHER; TRANSPORTATION - RAIL

environment: ENVIRONMENTAL FACTORS RELATED TO THE PIPELINE; GOVERNMENT - FEDERAL - DEPARTMENT OF THE ENVIRONMENT; IMPACT - ENVIRONMENTAL; SENSITIVE ENVIRONMENTAL AREAS

Environment Protection Board: PARTICIPANTS - EPB

ENVIRONMENTAL FACTORS RELATED TO THE PIPELINE

equipment: CONSTRUCTION - EQUIPMENT AND MATERIALS; OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS; TRANSPORTATION - MEN, MATERIALS, EQUIPMENT

equity: CAGPL - ORGANIZATION, FINANCING; FOOTHILLS - ORGANIZATION, FINANCING

erosion: DRAINAGE AND EROSION

examination: CONSTRUCTION - INSPECTION AND SUPERVISORY PERSONNEL; MONITORING; PIPELINE - TESTING, TEST MEDIA AND DISPOSAL

exhaust: AIR QUALITY, EMISSIONS

EXHIBITS

expanded guidelines: GUIDELINES FOR NORTHERN PIPELINES

exploration, gas: GAS - SUPPLY, DELIVERY

exploration, oil: OIL - EXPLORATION AND DEVELOPMENT

facilities: COMMUNICATIONS TOWERS; COMMUNITIES; COMPRESSOR STATIONS; CONSTRUCTION CAMPS - SITES AND FACILITIES; EDUCATION (FORMAL) - FACILITIES, PROGRAMS; HEALTH SERVICES - FACILITIES AND STAFF; PIPELINE - FACILITIES

failures: PIPELINE - FAILURES AND REPAIRS; SLOPE STABILITY

Fairbanks: COMMUNITIES - OTHER

Fairbanks corridor: ALTERNATIVE TRANSPORTATION CORRIDORS

falcons: BIRDS - OF PREY

fault: PIPELINE - FAILURES AND REPAIRS; SEISMICITY

federal government: GOVERNMENT - FEDERAL

Federal Power Commission (FPC): US - GOVERNMENT - FPC

fertilizer: REVEGETATION
 Fiji: ABORIGINAL RIGHTS - OTHER COUNTRIES
 filing of exhibits: EXHIBITS
 fill: BORROW MATERIALS AND SOURCES; PIPELINE - BACKFILL
 films: SLIDES, VIEW GRAPHS
 FINANCIAL INSTITUTIONS/SERVICES
 financing: CACPL - ORGANIZATION, FINANCING; FOOTHILLS - ORGANIZATION, FINANCING; PIPELINE - PROJECT COST
 fire breaks, guards, lines: AIRCRAFT LANDING SITES; COMPRESSOR STATIONS; FIRE - FOREST
 FIRE - BURNING OF WASTES/SLASH/TIMBER (also: VEGETATION CLEARING)
 FIRE - FOREST
 FIRE - PIPELINE OPERATION
 fire sleds, sleighs: FIRE - BURNING OF WASTES/SLASH/TIMBER
 FIREARMS
 Firth River: RIVERS - FIRTH
 FISH - AS A RESOURCE
 fish canneries: COMMERCIAL FISHING
 FISH - GENERAL (ENVIRONMENTAL)
 FISH - MIGRATION
 FISH - OVERWINTERING
 FISH - POPULATION
 FISH - SPAWNING AND REARING
 fishing: COMMERCIAL FISHING; HUNTING, TRAPPING, FISHING
 flights: NOISE; TRANSPORTATION - AIR; TRANSPORTATION - MEN, MATERIAL, EQUIPMENT
 floods, flooding: PIPELINE - BACKFILL; RIVERS - WATER FLOW AND LEVEL
 foods: TRADITIONAL FOODS
 Foothills Gas: FOOTHILLS; PARTICIPANTS - FOOTHILLS
 FOOTHILLS - ORGANIZATION, FINANCING
 FOOTHILLS - UNDERTAKINGS
 forest fires: FIRES - FOREST
 FOREST INDUSTRIES
 forest resources: FOREST INDUSTRIES; RENEWABLE RESOURCES
 Forts Franklin, Good Hope, Liard, McPherson, Norman, Providence, Rae, Resolution, Simpson, Smith: COMMUNITIES
 Fort Simpson route change: ROUTE - FORT SIMPSON ROUTE CHANGE
 Fort Yukon: COMMUNITIES - OTHER
 Fort Yukon corridor: ALTERNATIVE TRANSPORTATION CORRIDORS
 FOUNDATIONS AND PADS
 fox: MAMMALS - ARCTIC FOX; MAMMALS - OTHER
 frontier concept: SOCIAL MODELS
 frost, frost bulb, frost heave: PERMAFROST AND GROUND ICE; PIPELINE - FROST, FROST HEAVE
 FUELS AND OTHER TOXIC MATERIALS (also: PIPELINE - TESTING, TEST MEDIA AND DISPOSAL)
 furbearers: HUNTING, TRAPPING, FISHING; MAMMALS - OTHER
 FUTURE CHANGES (APPLICANTS')
 gabions: DRAINAGE AND EROSION - CONTROL MEASURES; RIVERS - CHARACTERISTICS
 GAME MANAGEMENT
 GAME PRESERVES AND BIRD SANCTUARIES
 garbage: WASTE AND DISPOSAL
 GAS - COMMUNITY USE
 GAS - COMPOSITION
 GAS - COST
 gas delivery: GAS - SUPPLY, DELIVERY
 GAS - FLOW, PRESSURE, TEMPERATURE, VOLUME
 gas leaks: PIPELINE - FAILURES AND REPAIRS
 gas measurement stations: METER STATIONS
 gas pressure: GAS - FLOW, PRESSURE, TEMPERATURE, VOLUME
 GAS - SUPPLY, DELIVERY
 gas temperature: GAS - FLOW, PRESSURE, TEMPERATURE, VOLUME
 GAS - TRANSPORTATION SYSTEM (also: ALTERNATIVE SYSTEMS)

GAS AND OIL WELLS
 GAS CONTROL CENTRE
 GAS PLANT AND GATHERING LINE FACILITIES
 GAS PRODUCING COMPANIES - DELTA (also: ROYALTIES)
 GAS PRODUCING COMPANIES - DELTA - GULF
 GAS PRODUCING COMPANIES - DELTA - IMPERIAL
 GAS PRODUCING COMPANIES - DELTA - SHELL
 geese: BIRDS - WATERFOWL
 GENERAL OPPOSITION TO THE PIPELINE
 Geological Survey of Canada: GOVERNMENT - FEDERAL - DEPARTMENT OF ENERGY, MINES AND RESOURCES
 geophysical surveys, data: GAS - SUPPLY, DELIVERY; SEISMICITY; TERRAIN INFORMATION
 GEOTECHNICAL INFORMATION
 GEOTHERMAL INFORMATION
 GOVERNMENT - FEDERAL
 GOVERNMENT - FEDERAL - DEPARTMENT OF AGRICULTURE
 GOVERNMENT - FEDERAL - DEPARTMENT OF ENERGY, MINES AND RESOURCES
 GOVERNMENT - FEDERAL - DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
 GOVERNMENT - FEDERAL - DEPARTMENT OF MANPOWER AND IMMIGRATION
 GOVERNMENT - FEDERAL - DEPARTMENT OF NATIONAL DEFENCE
 GOVERNMENT - FEDERAL - DEPARTMENT OF NATIONAL HEALTH AND WELFARE
 GOVERNMENT - FEDERAL - DEPARTMENT OF PUBLIC WORKS
 GOVERNMENT - FEDERAL - DEPARTMENT OF THE ENVIRONMENT
 GOVERNMENT - FEDERAL - MINISTRY OF TRANSPORT
 GOVERNMENT - FEDERAL - NATIONAL ENERGY BOARD
 GOVERNMENT - LOCAL
 GOVERNMENT - PROVINCIAL
 GOVERNMENT - TERRITORIAL
 GOVERNMENT - TERRITORIAL - NWT
 GOVERNMENT - TERRITORIAL - YUKON
 government programs: NATIVE DEPENDENCE - GOVERNMENT PROGRAMS
 grading: PIPELINE - GRADING
 granular materials: BORROW MATERIALS AND SOURCES; TERRAIN INFORMATION
 granular stockpiles: OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS; PIPELINE - BUOYANCY
 Great Bear River: HYDROELECTRIC DEVELOPMENT; RIVERS - GREAT BEAR
 greenhouse factor: CLIMATE; GEOTHERMAL INFORMATION
 grizzly bear: MAMMALS - GRIZZLY BEAR
 ground ice: PERMAFROST AND GROUND ICE
 GROUND WATER (also: CULVERTS; ICINGS AND SPRINGS)
 GUIDELINES FOR NORTHERN PIPELINES
 Gulf Oil Canada Limited: GAS PRODUCING COMPANIES - DELTA - GULF
 gyrfalcon: BIRDS - OF PREY
 habitat: AQUATIC ECOSYSTEMS; BIRDS - HABITAT; MAMMALS; MAMMALS - DENNING SITES; TERRESTRIAL ECOSYSTEMS
 Hanna River: RIVERS - HANNA
 harassment: NOISE
 Hare Indian River: RIVERS - HARE INDIAN
 harvesting: AGRICULTURE; ROADS - WINTER OR TEMPORARY PROJECT
 hawks: BIRDS - OF PREY
 Hay River: COMMUNITIES - HAY RIVER
 HEALTH CONDITIONS - MENTAL
 HEALTH CONDITIONS - PHYSICAL
 HEALTH SERVICES - APPLICANTS'
 HEALTH SERVICES - FACILITIES AND STAFF
 HEALTH SERVICES - GENERAL
 heat: CLIMATE; GAS - FLOW, PRESSURE, TEMPERATURE, VOLUME; GEOTHERMAL INFORMATION
 heave: PERMAFROST AND GROUND ICE; PIPELINE - FROST, FROST HEAVE
 helicopters: TRANSPORTATION - AIR
 helipads: AIRCRAFT LANDING SITES

HIGHWAYS - DEMPSTER
 HIGHWAYS - MACKENZIE
 HIGHWAYS - OTHER (also: CORRIDOR CONCEPT)
 HIGHWAYS - PIPELINE/HIGHWAY INTERACTION (also: CORRIDOR CONCEPT; ROADS)
 Hire North: EMPLOYMENT - HIRE NORTH/WORK ARCTIC; TRAINING PROGRAMS - OTHER
 hiring: EMPLOYMENT; UNIONS AND AGREEMENTS
 HISTORICAL BACKGROUND
 HISTORICAL BACKGROUND - CULTURAL
 HISTORICAL BACKGROUND - ECONOMIC
 historical sites: ARCHAEOLOGICAL AND HISTORICAL SITES; TRADITIONAL LIFESTYLES
 HORTE - RESPONSIBILITIES
 hospitals: HEALTH SERVICES - FACILITIES AND STAFF
 hostels: EDUCATION (FORMAL) - FACILITIES, PROGRAMS
 hours of work: UNIONS AND AGREEMENTS
 HOUSING (also: CONSTRUCTION CAMPS - SITES AND FACILITIES)
 hovercraft: TRANSPORTATION - WATER; VEHICLES - ALL TERRAIN
 Hudson's Bay Company: COMMERCIAL INSTITUTIONS/SERVICES - OTHER; HISTORICAL BACKGROUND
 HUNTING, TRAPPING, FISHING (also: COMMERCIAL FISHING; EMPLOYMENT - NATIVE; GAME PRESERVES AND BIRD SANCTUARIES; LAND USE; NORTHERN ECONOMY; RENEWABLE RESOURCES)
 hydrocarbons: GAS; OIL
 HYDROELECTRIC DEVELOPMENT (also: CORRIDOR CONCEPT)
 hydrology: DRAINAGE AND EROSION; GROUND WATER; RIVERS; SURFACE WATER; WATERBODIES
 ice bridges: BRIDGES AND OVERHEAD CROSSINGS
 ice cakes: RIVERS - CHARACTERISTICS
 ICE FOG
 ice gouging: RIVERS - SCOUR AND BED DEGRADATION
 ice jams: RIVERS - CHARACTERISTICS
 ice lenses: PERMAFROST AND GROUND ICE
 ice scour: RIVERS - SCOUR AND BED DEGRADATION
 ICINGS AND SPRINGS
 IMPACT - CULTURAL
 IMPACT - ECONOMIC (also: DEVELOPMENT BENEFITS; ECONOMIC FACTORS RELATED TO THE PIPELINE; ROYALTIES)
 IMPACT - ENVIRONMENTAL (also: ENVIRONMENTAL FACTORS RELATED TO THE PIPELINE)
 IMPACT - SOCIAL (also: DEVELOPMENT BENEFITS; SOCIAL FACTORS RELATED TO THE PIPELINE)
 Imperial Oil Limited: GAS PRODUCING COMPANIES - DELTA - IMPERIAL
 inactivation: ABANDONMENT
 INCOME - LEVELS
 INCOME - SOURCES (also: DEVELOPMENT BENEFITS)
 Indian Act: LEGISLATION
 Indian Affairs: GOVERNMENT - FEDERAL - DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
 Indians: NATIVE RIGHTS; NORTHERN PEOPLE - CONCERNS
 in-migrant population: EMPLOYMENT - PIPELINE; POPULATION - DEMOGRAPHY
 Inquiry staff: PARTICIPANTS - MACKENZIE VALLEY PIPELINE INQUIRY (INQUIRY STAFF)
 INSECTS
 inspection: CONSTRUCTION - INSPECTION AND SUPERVISORY PERSONNEL; LEGISLATION; MONITORING; OPERATIONS AND MAINTENANCE - SUPERVISION AND CONTROL; PIPELINE; REGULATORY AGENCIES AND CODES
 institutions: COMPANIES AND INSTITUTIONS INVOLVED IN RESEARCH
 insulation: DRAINAGE AND EROSION - CONTROL MEASURES; FOUNDATIONS AND PADS; GEOTHERMAL INFORMATION; PIPELINE - INSULATION; REVEGETATION
 INTERNATIONAL BIOLOGICAL PROGRAMME
 international treaties: LEGISLATION
 INTERNATIONAL WILDLIFE RANGE
 interior route: ROUTE - INTERIOR
 Inuit Tapirisat of Canada: PARTICIPANTS - COPE/ITC
 Inuit: NATIVE RIGHTS; NORTHERN PEOPLE - CONCERNS
 Inuvik: COMMUNITIES - INUVIK
 James Bay, agreement: HYDROELECTRIC DEVELOPMENT; NATIVE LAND CLAIMS AND TREATIES
 Jean Marie River: COMMUNITIES - JEAN MARIE RIVER

job opportunities: LABOUR FORCE - SUPPLY AND DEMAND
 Kakisa River: RIVERS - KAKISA
 Kinggate: CONNECTING PIPELINE FACILITIES
 Klo-Kut site: ARCHAEOLOGICAL AND HISTORICAL SITES
 Klondike gold rush: HISTORICAL BACKGROUND; RESOURCES - NON-RENEWABLE
 LABOUR FORCE - COMPOSITION (also: DEVELOPMENT BENEFITS)
 LABOUR FORCE - QUALIFICATIONS (also: DEVELOPMENT BENEFITS)
 LABOUR FORCE - SUPPLY AND DEMAND (also: CONSTRUCTION - SPREADS; DEVELOPMENT BENEFITS; EMPLOYMENT; OPERATIONS AND MAINTENANCE - FORCE; TRAINING PROGRAMS; TRANSPORTATION - MEN, MATERIAL, EQUIPMENT)
 LAKES (SPECIFICALLY MENTIONED BY NAME) (also: WATERBODIES)
 land claims rights: NATIVE LAND CLAIMS AND TREATIES
 LAND - STATUS, TENURE (also: NATIVE LAND CLAIMS AND TREATIES)
 LAND - USE
 landing sites, strips: AIRCRAFT LANDING SITES
 language: HISTORICAL BACKGROUND - CULTURAL; TRADITIONAL LIFESTYLES
 LAW ENFORCEMENT
 laws: LEGISLATION
 leaks: PIPELINE - FAILURES AND REPAIRS
 LEGENDS AND STORIES
 LEGISLATION (also: LAW ENFORCEMENT; REGULATORY AGENCIES AND CODES)
 lemmings: MAMMALS - MICROTINE RODENTS
 letters: EXHIBITS; REPORTS AND STUDIES
 line patrol: OPERATIONS AND MAINTENANCE - SUPERVISION AND CONTROL; TRANSPORTATION - AIR
 liquid wastes: PIPELINE - TESTING, TEST MEDIA AND DISPOSAL; WASTE DISPOSAL - SEWAGE, GARBAGE, ETC.; WATER QUALITY
 local government: GOVERNMENT - LOCAL
 location: ROUTE - SELECTION OF LOCATION, LOCATION
 logging: CORRIDOR CONCEPT; FOREST INDUSTRIES
 logistics: TRANSPORTATION - MEN, MATERIAL, EQUIPMENT
 looping: PIPELINE - LOOPING
 low ground pressure vehicles: VEHICLES - ALL TERRAIN
 lumber: FOREST INDUSTRIES
 machine noise: CONSTRUCTION - EQUIPMENT AND MATERIALS; NOISE; OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS
 machinery: CONSTRUCTION - EQUIPMENT AND MATERIALS; OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS
 MACKENZIE DELTA
 Mackenzie Highway: HIGHWAYS - MACKENZIE
 Mackenzie River: RIVERS - MACKENZIE
 MAINTENANCE PROGRAMS (also: OPERATIONS AND MAINTENANCE)
 maintenance equipment: OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS
 maintenance supervision: OPERATIONS AND MAINTENANCE - SUPERVISION AND CONTROL
 Malcolm River: RIVERS - MALCOLM
 mammals: AQUATIC ECOSYSTEMS; TERRESTRIAL ECOSYSTEMS
 MAMMALS - ARCTIC FOX
 MAMMALS - BEAVER
 MAMMALS - CARIBOU - AS A RESOURCE
 MAMMALS - CARIBOU - CALVING
 MAMMALS - CARIBOU - MIGRATION
 MAMMALS - CARIBOU - OTHER HERDS
 MAMMALS - CARIBOU - POPULATION
 MAMMALS - CARIBOU - PORCUPINE HERD
 MAMMALS - CARIBOU - WINTERING RANGE
 MAMMALS - CARIBOU - WOODLAND
 MAMMALS - DALL SHEEP
 MAMMALS - DENNING SITES (also: TERRESTRIAL ECOSYSTEMS)
 MAMMALS - DISTURBANCE (also: BLASTING; NOISE)
 MAMMALS - GENERAL (also: GAME PRESERVES AND BIRD SANCTUARIES)
 MAMMALS - GRIZZLY BEAR
 MAMMALS - MICROTINE RODENTS
 MAMMALS - MOOSE

MAMMALS - MUSKRAT
MAMMALS - OTHER
MAMMALS - WOOD BISON
management: CAGPL - ORGANIZATION, FINANCING; FOOTHILLS - ORGANIZATION, FINANCING
manpower: EMPLOYMENT; GOVERNMENT - FEDERAL - DEPARTMENT OF MANPOWER AND IMMIGRATION; LABOUR FORCE
MANPOWER DELIVERY SYSTEM (also: EMPLOYMENT - NORTHERNERS; LABOUR - SUPPLY AND DEMAND)
manufacture of pipe: PIPELINE - SPECIFICATIONS
MANUFACTURING (also: FOREST INDUSTRIES; NON-RENEWABLE RESOURCES; RENEWABLE RESOURCES)
Maoris: ABORIGINAL RIGHTS - OTHER COUNTRIES
mapping: PIPELINE - SURVEYS; TERRAIN INFORMATION
maps: SLIDES, VIEW GRAPHS
marine mammals _ MAMMALS - OTHER
materials: CONSTRUCTION - MEN, MATERIALS, EQUIPMENT; OPERATIONS AND MAINTENANCE - EQUIPMENT AND MATERIALS; TRANSPORTATION - MEN, MATERIALS, EQUIPMENT; WHARVES AND STOCKPILE SITES
measuring stations: METER STATIONS
medicine: HEALTH SERVICES; TRADITIONAL LIFESTYLES
metallurgy: PIPELINE - SPECIFICATIONS; PIPELINE - WELDING
METER STATIONS
methanol: FUELS AND OTHER TOXIC MATERIALS; PIPELINE - TESTING, TEST MEDIA AND DISPOSAL
Metis, Metis Association of NWT: NATIVE RIGHTS; NORTHERN PEOPLE - CONCERNS; PARTICIPANTS - NWT IB/MA
Metis land claims: HISTORICAL BACKGROUND; NATIVE LAND CLAIMS AND TREATIES
metropolis vs. hinterland: CURRENT WHITE/NATIVE RELATIONSHIPS; SOCIAL MODELS
microtine rodents: MAMMALS - MICROTINE RODENTS
microwave: COMMUNICATIONS SYSTEMS AND MEDIA
migration patterns: BIRDS - MIGRATION; FISH - MIGRATION; MAMMALS - CARIBOU - MIGRATION; POPULATION - DEMOGRAPHY
minerals, mining: CORRIDOR CONCEPT; RESOURCES - NON-RENEWABLE
Ministry of Transport: GOVERNMENT - FEDERAL - MINISTRY OF TRANSPORT
Monchy: CONNECTING PIPELINE FACILITIES
MONITORING
moose: MAMMALS - MOOSE
MORAL AND ETHICAL ISSUES
moratorium: RECOMMENDATIONS TO THE INQUIRY
mound breaks: DRAINAGE AND EROSION - CONTROL MEASURES; PIPELINE - BERM
movement of pipe: PIPELINE - BUOYANCY; PIPELINE - FROST AND FROST HEAVE
movement of water in soil: CULVERTS; GROUND WATER
Mozambique: ABORIGINAL RIGHTS - OTHER COUNTRIES; ECONOMIC FACTORS AND INSTITUTIONS
multinational corporations: ORGANIZATIONS - OTHER
municipal lands: LAND - STATUS, TENURE
municipalities: COMMUNITIES; COUNCILS - BAND, HAMLET, ETC.; PARTICIPANTS - NWT AM; PARTICIPANTS - NWT CC
muskrat: MAMMALS - MUSKRAT
mythology: LEGENDS AND STORIES
Nahanni Butte: COMMUNITIES - NAHANNI BUTTE
Nanisivik: COMMUNITIES - OTHER; RESOURCES - NON-RENEWABLE
National Energy Board: GOVERNMENT - FEDERAL - NATIONAL ENERGY BOARD
nationalism, nationality: POLITICAL CONCEPTS
native consultation: DECISION MAKING - NATIVE INPUT
NATIVE DEPENDENCE - GOVERNMENT PROGRAMS (also: EMPLOYMENT - HIRE NORTH/WORK ARCTIC; GOVERNMENT)
NATIVE DEPENDENCE - WAGE ECONOMY (also: CURRENT WHITE/NATIVE RELATIONSHIPS; EMPLOYMENT - NATIVE; INCOME - SOURCES; NORTHERN ECONOMY - GENERAL; NORTHERN ECONOMY - NATIVE)
NATIVE LAND CLAIMS
NATIVE RIGHTS
NCPC: GOVERNMENT - FEDERAL
negotiating conditions: NATIVE LAND CLAIMS
nesting: BIRDS - BREEDING AND NESTING
network: COMMUNICATIONS SYSTEMS AND MEDIA
New Guinea: ABORIGINAL RIGHTS - OTHER COUNTRIES
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XXVIII	4919-22	May 14		Lucas	CARC	Demobilization, movement
42	5494-95	May 21		Scott Hurd	MVPI CAGPL	Time period; pipeline left in ground
48	6420	June 4		Bliss	EPB	Section 27 of Code
49	6534-35	June 5		Horte	CAGPL	No policy or recommendations by CAGPL yet
C-15	1396-98	July 12	OC	J. Russell	Citizen	Cost of
56	7868-69	Aug. 18	YK	Horte		Wharves and stockpile sites; consultation with communities and authorities
54	7457-58	Aug. 14	WH	Weedon	CARC	Removal of pipeline where its use is no longer required; Fort Yukon, Fairbanks Corridors.
C-20	2058-59	Aug. 7	FGH	Rabasca	Citizen	Seismic cuts; Sans Sault test site
68	10096	Sept. 24	YK	Hushion	Foothills	Plan similar to CAGPL
75	11030-31	Oct. 20		Parker	CARC	Use of thin work pads for winter construction; gravel pad left on the tundra after use
78	11635-37	Oct. 23		Minning	CAGPL	Frost bulb at time of abandonment; changes in permafrost along right-of-way, long term changes in vegetation, climate
81	12006-10 12086-88	Nov. 5	YK	Hemstock Minning Williams	CAGPL CAGPL CAGPL	Environmental implications; CAGPL responsibilities Burial of wastes at abandoned borrow pits
82	12285-89 12291-92	Nov. 6		Hemstock Harlan	CAGPL	Environmental problems of abandonment Visual impact of thawing of frost bulb, erosion problems
88	13245	Nov. 17		Lawrence	Foothills	Sewage retention ponds, restoration
93	14066-68	Dec. 1		McCart	CAGPL	Clean up snow roads and bridges prior to spring break up
96	14614-16	Dec. 4		Jakimchuk	CAGPL	Research; alternative methods - pipe left in the ground or recovered; facilities dismantled or left; impact on caribou herd
105	16110-17	Dec. 17		Ryder	MVPI	Ice bridges re removal prior to spring breakup; methods; problems; timing; monitoring
108	16446-55 16458	Jan. 13		McT-Cowan Wilimovsky	EPB EPB	Impact of pipeline abandonment on the Porcupine Herd; surety bond Contingency plans; removal
C-25	2520-21 2544-46	Sept. 8	FS	Hammond Workman Ellwood Hammond Workman Ellwood	Citizen CAGPL Foothills	Campsite - re land, building utilization Policy of Foothills, CAGPL
C-31	3014	Oct. 7	FR	Mirosh	Foothills	Gas pipeline operation period
C-39	3722 3731	Feb. 18	IN	Hill Hill	Citizen	Disbandment of Mackenzie Valley Pipeline Authority after construction Disposal of surplus construction equipment, buildings and supplies
115	17506	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, dismantling facilities
C-53	5453	May 14	CAL	Pearce	Citizen	Abandonment would not necessarily follow in 20-30 years for the pipeline would be an incentive to more exploration

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143	21759-64	Apr.14	YK	Manuel	I.A.A.	Situation of native people in other parts of the world
	21782-87			Manuel		Native rights in New Zealand, Greenland, Lapland, Australia
144	21895-96	Apr.15		Sanders	NWT IB/MA	United States, a court case, Johnson ^{vs} McIntosh, U.S. Supreme Court; question of existence, extent of Indian rights
	21898			Sanders		Australia, case in the Supreme court of the Northern Territory
	21901			Sanders		United States, court case of Worcester vs Georgia, grants to colonies in New England
	21905-11			Sanders		Alaskan settlement; New Zealand, Maori Land Court; Fiji
	21912-18			Sanders		Land title transfer institutions in New Zealand, New Guinea, Fiji, Australia
	21923			Sanders		United States, a court case, Worcester vs Georgia; grants
	21941-50			Sanders		Question of recognition of sovereignty; land cession treaties in New Zealand, New Guinea, Fiji; question of retention of subsurface rights
	21956-64			Sanders		Recognition and conversion of native land title, New Zealand, New Guinea
	21970			Saul	NWT IB/MA	Rise of nationalism, sense of nationality in Africa, Asia
145	22098-102	Apr.26		Brownstone	NWT IB/MA	Relief and self-help projects, Oxfam; economies of Bangladesh, India, Mozambique
	22114-20			Clarke	NWT IB/MA	People of the Amazon region of Brazil
145	22161-62	Apr.26		Brownstone Smith	NWT IB/MA NWT IB/MA	Lack of native participation in government, Brazil
	22174-80			Smith		Population decrease of native people of Brazil
149	22810-14	May 3		Simpson	NWT IB/MA	Efforts of colonized people to be self-sufficient; outside "development" experts; education programs
	22850-51			Simpson		Need for alternatives to development along western models
150	22855-66	May 4		Hills	NWT IB/MA	Amount of well-being, self-determination, varies throughout the world; expansion of European frontier; forced migration, expulsion; signing of treaties; policies of protection, incorporation; establishment of reservations
	22867-71			Hills		Case study, rights of Aborigines to land in Australia; Guyanese Amerindians
	22872-76			Hills		Amerindians, Brazil; role of Brazilian government FUNAI, agency with responsibility for native people
	22877-86			Hills		Amerindians, Guyana; Ainu people, Japan; Samoyeds, Siberia
	22889-99			Hills		Brazil, disregard of rights guaranteed in the Constitution
	22901-05			Hills		Woodward Commission, Australia, aboriginal rights to land
	22904			Berger Hills		Smithsonian Institute, studies of Samoyeds, Chukchi, U.S.S.R.
	22911-15			Simpson		Aswan dam, Egypt; killing of Amerindians, Brazil
	22919-24			Simpson		Mau-Mau Uprising, Kenya
154	23609	June 29		Watkins	NWT IB/MA	Operations of multinational corporations
155	23762-91	June 30		Forrest	NWT IB/MA	Alaska land settlement; Alaska Land Claims Settlement Act; formation of regional native corporations; checkerboard land selection pattern; lack of co-ordinating body
	23794-816			Hollingworth	Foothills	Alaska Land Claims Settlement Act; creation of corporate structure, power struggles; no protection from expropriation
	23816-30			Hollingworth		Alaska, establishment of regional corporation settlement with Tlingits, Haidis
156	23970	July 1		Yazzi	NWT IB/MA	Sustaining Navajo culture, education grants

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C-50	4878-79	May 11	VAN	Dobyns	Citizen	Indigenous Peoples Conference, discussing native rights
	5068-70			Sakamoto	Citizen	Contrasting living standards between whites and natives throughout the world
C-54	5731	May 17	EDM	Robertson	Citizen	Article by Maukience Kokare, impact of white culture on New Guinea
C-56	6109	May 19	REG	Alexander C.	Citizen	Angmassalik, community in Greenland
C-60	6706-08	May 27	TOR	Father M. O'Kane	Citizen	Amazonas, Brazil, no role in development decisions
C-64	7219	June 3	OTT	Hatton	Citizen	Parallels between native people in the Amazons of Brazil and northern native people
C-65	7420	June 4		T. Hills	Citizen	Oxfam, helping third World countries to strive for social justice
163	25121-24	July 14	YK	Hobart	CAGPL	Greenland, development boom, influx of Danes, racial tension
169	26218-22	July 23	YK	Stanley	NWT IB/MA	Passamaquoddy Indians, Maine, persistence as an identifiable group; former dominance by federal Indian Agent
187	29091-98	Sept.17		Berger Falk	NWT IB/MA	Black minority in U.S.; natives control schooling in U.S.; self-determination; Arabs in Israel, maintaining language, culture, traditions
	29111-13			Berger Falk		Self-determination in Soviet Union, Scandinavia, South Africa, Rhodesia
188	29168-76	Sept.21		Mrs. Worl	COPE/ITC	Alaskan natives fight for aboriginal rights and property; colonial relationship between Alaska and United States

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XVI	1867-68	Mar.12	YK	Dau	CAGPL	Land requirements
XVII	1896	Mar.13		Dau		Land requirements
XIXA	2263-64	Mar.17		Clark	CAGPL	Adequacy; stability; thawing
XXIII	2686	Mar.21		Templeton	EPB	Environmental implications of the haul road (snow road)
	2700-04			Williams	CAGPL	Summer crews walking on line; snow roads
XXV	3020-21	Apr.8		Hollingshead	CAGPL	Snow road to training works, over land
XXXIII	4323-25	Apr.1.21		Dau		Connecting with borrow pits
XXXVIII	4861-64	May 14		Dau		Temporary access, location
	4895-97			Lucas	CARC	Turn outs
XXXIX	5022	May 15		Williams		Shoe fly-diverge from ROW to cross difficult terrain
	5045			Williams		Road between wharf and stockpile site
42	5518-24	May 21		Hurd	CAGPL	Sensitive areas, valleys, L.C.P.'s
46	6139	June 2		Bliss	EPB	Need for revegetation
47	6204-18	June 3		McT-Cowan	EPB	Contact for animals with man, danger of collision with vehicles; recommendation
	6230			Templeton		Impact on state of natural land
48	6400-02	June 4		Craik	EPB	Sec 19 of Code
58	8168	Aug.20		Blair	Foothills	Influence of the Dempster Highway; greater access to communities; impact on caribou
59	8351-52	Aug.21		Mirosh	Foothills	Location selection; environmental, geotechnical, engineering considerations
52	6949-52	Aug.12	WH	Clark Hemstock	CAGPL	Role of all-weather roads in facilitating construction
53	7081-93	Aug.13		Williams		Need for gravel pads along North slope
53A	7300			Leonard	CARC	Temporary roads 375 miles long for Interior route
54	7419	Aug.14		Geist	CARC	Fort Yukon Corridor; opening up of Dall Sheep range; St. Cyr and Dawson Range

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54	7534-35	Aug. 14	WH	Parker	CARC	Alyeska experiences; transportation to construction sites; all weather gravel roads; effects of rain-fall; heavy truck traffic
55	7640	Aug. 15		Morlan	CARC	Clearing of bush could destroy archaeological sites re: area around Porcupine - Old Crow River
	7658			Banfield	CAGPL	Caribou migration
C-22	2228-29	Aug. 11		C. Pearson	CC	Government must upgrade transportation facilities.
62	8838-44	Sept. 16	YK	Mirosh	Foothills	Shoo-fly roads; access to borrow pits, wharf sites
63	8971	Sept. 17		Mirosh		CAGPL airstrips to have permanent roads to compressor stations
	9024			Mirosh		Environmental impact of reopening access roads to compressor sites for looping operation
65	9611	Sept. 19		Bauer	Foothills	Pre-construction schedule in areas where no permanent roads exist
66	9676-99	Sept. 22		Bauer Mirosh		Roads between camp sites; clearing of access in advance of construction; use of existing winter road system
67	9966	Sept. 23		Mirosh		Opening up of borrow sites if permanent roads exist
68	10044-45	Sept. 24		Hushion	Foothills	All weather access roads to wharves; access roads required by CAGPL airstrips; CAGPL proposal requires permanent wharves and access roads
	10057-58			Hushion		Comparison of Foothills and CAGPL requirements for road; use of helicopters and implications
	10087-8			Berger		Inclusion of acreage required for access roads in total estimates for Arctic Gas & Foothills
	10115			Mirosh		Use of helicopter and roads as access to compressors
70	10541-54	Sept.26		Longlitz	MVPI	Land use permits re: snow roads, winter construction, temporary access roads
	10558			Longlitz		Impact of using winter access roads too late into the spring
72	10695	Oct.15		Bayly Longlitz	COPE/ITC	Land use regulations; definitions of terms; public roads, access roads; legislation re: definition of terms
	10716-18			Marshall Longlitz	CAGPL	Necessity in pre-planning access road location; orthophoto mosaics; communication to clearing crews; hand clearing; movement of work crews
	10751			Lewis	MVPI	Example of culvert under a highway freezing up, applicable to intermittent flow in conduit which would build up and freeze solid
75	11026-34	Oct. 20		Parker	CARC	Alaska experiences; use of snow roads, Alaska haul road, thin work pads
76	11161-62	Oct. 21		Parker Weeden	CARC	Traffic the roads bring in; gravel shortages
	11189-11295			Parker Weeden		Alyeska haul road; costs to the tax payer and community due to pipeline construction; Alyeska experience
77	11368-74	Oct. 22		Rutter	CARC	Routes east of Mackenzie and west of the Franklins (Arctic Gas, Foothills proposal) construction costs lower, fewer access roads ; Mackenzie River, great transportation artery
	11409			Rutter		Logistics; opening up of area re: roads and access
78	11584-85			Roed	CARC	Access to construction areas and supply and staging points; east of the Franklins route
	11658	Oct.23		Minning	CAGPL	Permanent access roads from stockpile sites to compressor stations, air strips and borrow sites required for maintenance
80	11857-59	Nov. 4		Hemstock	CAGPL	Problems involved with access in the East of the Franklins route
	11901-02			Williams	CAGPL	Borrow sites in use all seasons to have permanent access roads; use of snow and temporary roads
	11950-51			Dabbs	CAGPL	Access roads to right-of-way may disallow growth of trees such as willows
81	12066-67	Nov. 5		Minning		Determination of year-round borrow pits requiring permanent access roads

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82	12176	Nov. 6	YK	Williams	CAGPL	Access generally easier for repairs along coastal route
	12204-05			Williams		Permanent access road planned from MP443 to Dempster and Whitehorse
	12259			Williams Hemstock		Access involves opening of environmental disruption by skidoos etc.
84	12570-71	Nov. 8		McCart	CAGPL	Access roads, compressor stations, parallelling and crossing streams
86	13010	Nov. 13		Gibbs Williams	Foothills	Access road, Swimming Point
88	13229-33	Nov.17		Bouckhout Drew	Foothills Foothills	Use of terrain sensitivity maps for location
89	13478	Nov.18		Jakimchuk	CAGPL	Access to hunt caribou controllable
92	13975-81	Nov.21		Bayly McCart	COPE/ITC	Easier access, impact on fish populations; interior route, north slope; permanent project roads; Dempster Highway
93	14065-68	Dec. 1		McCart		Barriers to fish passage - permanent roads
94	14326-59	Dec. 2		Environmental Panel	CAGPL	Wildlife management; Dempster; increased hunting possibilities; interference; North Slope access; construction activities; and impact statements and policies
95	14427-28	Dec. 3		Banfield Gunn Berger	CAGPL CAGPL	Access by means of an all weather road along the North Slope would change predictions made by the environmental scientists for CAGPL; restriction of access, regulations
	14430-51			Banfield Scott Berger Jakimchuk Gunn	MVPI	Access along the North Slope - winter road/all weather road; corridor concept; construction scheduling, prediction of impacts; Dempster Highway
96	14590-644	Dec. 4		Jakimchuk		Caribou/construction interaction; use of snow roads, all weather roads, Dempster Highway; heavy vehicle use; impact on caribou herds; three access roads from the Dempster Highway
	14684-85			Jakimchuk		Caribou killing is a function of access though controllable by regulation, Alyeska example
97	14725-34	Dec. 5		Bell Jakimchuk	NWT-IB/MA	Increased human access a danger to moose, Mackenzie Valley
98	14914-19	Dec. 8		Scott Gunn		Increased human access to birds, impact
	14935-15006			Jakimchuk Banfield		Pressure on caribou herds due to increased access; Dempster, Mackenzie Highways
99	15166-68	Dec. 9		Whitney	Foothills	Impact studies, road in McKinley Park, Alaska
100	15249-50	Dec.10		Bouckhout	Foothills	Game management needed due to increased access during, after construction
103	15748-54	Dec.15		Walker	CARC	Pipeline maintenance, fish exploitation opportunity
	15760			Steigenberger	CARC	Definition inside, subside corridor requested
	15787-38			Steigenberger		Pipeline design consideration - road impact outside right-of-way
	15790-91			Millen	CARC	To wharf sites - engineering considerations
	15821-23			Stein	CARC	Access to Big Fish River by residents and pipeline personnel - impact on Arctic char population
	15833-38			Stein Marshall	CAGPL	East of Franklins Route re all weather roads and crossings
104	15968-69	Dec.16		Walker		Impact of a permanent road on Yukon North Slope
105	15978-82	Dec.17		Steigenberger		Necessity, asset, disadvantage of permanent road along oil pipeline; gravel requirements
	15984-88			Stein		Gravel removal operations for highway construction, buffer strips
	15991-92			Stein		Increased human access - down river and road, Franklins, wharf sites
	15995-96			Millen		Foothills road construction, use, schedule
	16146-48			Lent	CARC	Feeder pipelines adjacent to gravel road pads re study of caribou responses to structures, results

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106	16200-02	Dec.18	YK	Calef	CARC	Churchill Falls Dam, Labrador re haul road from Shefferville Railway to dam site; effects of highway traffic re caribou
	16263-64			Lent	CARC	Pipeline adjacent to public road re animals attracted to camp
107	16335-39	Jan.12		McT-Cowan	EPB	Uncontrollable access, all-terrain vehicles; responsibility for access i.e. logging roads; harassment of wildlife
	16361-64			Adam Berger	EPB	Snow roads; snow availability on the North Slope
	16367-68			Templeton	EPB	Road facility across the North Slope - assumption re environmental impact assessments
108	16426-27	Jan.13		McT-Cowan		Road and vehicular traffic cause impossible barriers; possible delay in spring migration; four access roads from the Dempster to the interior route; possible division of winter range
	16436-37			McT-Cowan		Wilderness Range issue, opening up of previously undisturbed areas
	16548-50			Wilimovsky	EPB	Contingency plans to cover access; roads require materials, upkeep, impossible to remove; impact
109	16602	Jan.14		Templeton		Increase in access and human activity in the delta
	16618-26			McT.-Cowan		Bird harassment; game management programs, enforcement; all terrain vehicles; development
110	16811-12	Jan.15		Calef		Single developments versus cumulative, access - air, road, rail, all-terrain vehicles
	16823-27			Bergerud Calef	CARC	Caribou deterred by highways, snow banks, the crossing of roads; study by DeBock; other herds
111	16938	Jan.16		Ryder	MVPI	Roads through reindeer herd area to gas production facilities
	16958			Bergerud	CARC	Need predictive data re response of caribou to increased access
C-29	2857	Sept.12	JMR	Norwegian	Citizen	From Jean Marie River to Mackenzie Highway, frustration with government
	2858-59			Sanguay	Citizen	From Jean Marie River to Mackenzie Highway
114	17292	Jan.22	IN	Mainland	GPC-D-I	Taglu gas field, roads from gas plant to dock, airstrip, wells etc.
130	19737	Mar,16	YK	Marshall	CAGPL	More required because of non-completion of Mackenzie Highway
134	20215	Mar.24		Jakimchuk	CAGPL	Permanent roads allow access to wildlife in summer e.g. Alyeska
	20347			McCart	CAGPL	Road needed if cross-Delta, coastal routes built in summer, will provide access for public
138	20967-68	Apr. 6		Norton	MVPI	Trans-Alaska pipeline system's haul road, under review by Alaska Growth Policy Council
	21012-15			Mossop	MVPI	Access trunk from south at Eagle Plains; access road from Dempster Highway to interior route, winter road to Old Crow, all-weather permanent road from Highway to Yukon - NWT border; impact of access on caribou
163	25211-19	July 14		Trusty	CAGPL	Points of contact between camps, communities
164	25343-45	July 15		Trusty		Lack of roads; other transportation means to reach communities
	25412-13			Trusty		Rules needed to ensure that workers remain in camps away from communities
193	30244-45	Oct.5		Doyle	EPB	Methodology employed in clearing access roads
194	30364-67	Oct.6		Hemstock	CAGPL	Roads - major impact on fisheries, birds, aesthetics

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XXXI	3993-94	Apr.16	YK	Purcell Anthony	CAGPL CARC	Buried / above-ground pipeline
41	5324	May 20		Templeton	EPB	Trenches develop from movement of heavy equipment
46	6117	June 2		Adam	EPB	Terrain degradation - irretrievable losses
47	6227-38	June 3		McT-Cowan	EPB	ROW is permanent land use commitment, value of nature
48	6387-88	June 4		Bliss	EPB	Sec 12 Code: revegetation to reduce visual impact
51	6806-07	Aug.11	WH	Hemstock	CAGPL	Right-of-way clearing may be obtrusive
53	7108-12	Aug.13		Hemstock		Consideration of alternative corridors
78	11575-80	Oct.23	YK	Roed	CARC	Planning techniques; aesthetic potential; blending with terrain and vegetation patterns; evaluation of aesthetics
80	11883	Nov. 4		Hemstock		Borrow pit on flood plain preferable in aesthetic terms
81	11992-94 12058	Nov. 5		Williams Williams	CAGPL	Impact of compressor at Thunder River on wilderness scenery Berms and spilling basins not aesthetically pleasing - scars on land
82	12212-15 12258-60	Nov. 6		Hemstock Williams		Agreement that visual impacts should be minimized Stockpile problem, inadequate cleanup could be aesthetically displeasing
	12282-83			Harlan	CAGPL	Thaw settlement problem
	12291-92			Harlan		Visual effects of abandonment
83	12349-50	Nov. 7		Scott Hemstock	MVPI	Borrow pits as aesthetic disturbance
84	12582-84	Nov. 8		Bayly Minning	COPE/ITC CAGPL	Alyeska objections to upland borrow sites
86	12881-83 12917-18	Nov. 13		Taylor Taylor	Foothills	Evaluation of route Gravel pit restoration
87	13099-113 13194	Nov. 14		Taylor Scott	MVPI	Foothills philosophy Inclusion of aesthetics expert in CAGPL panel
88	13200 13293-305	Nov.17		Ryder Bouckhout Taylor	MVPI Foothills	Aesthetics apply everywhere on route Aesthetics as guide to route location; local views
99	15057-90	Dec.9		Environmental Panel	CAGPL	Personnel wilderness concepts; guidelines, reports; route selection; local people's views
106	16182 16227	Dec.18		Lent Calef	CARC	Impact of exploitation re Arctic National Wildlife Range Reaction of wilderness lovers and animal observers to compressor station re pleasure and experience
108	16502-03	Jan.13		Adam	EPB	Channelization, erosion, snow roads, seismic lines
109	16637-38 16641-48	Jan.14		McT-Cowan Environmental Panel Berger	EPB	Visual damage; patching up process Visual impact of a pipeline right-of-way, seismic lines; perspective of the participant in the environment; southern and northern attitudes; judgement of aesthetic loss; air versus ground perspectives
	16672			Templeton	EPB	Wilderness values
194	30367	Oct. 6		Hemstock	CAGPL	Oil pipeline - greater aesthetic impact than gas pipeline
201	31745-46	Nov.16		Marshall	CAGPL	Impact of buried gas line on North Slope minimal re aesthetics

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82	12225-26	Nov. 6	YK	Hemstock	CAGPL	Farming could be carried on along right-of-way
87	13161	Nov. 14		Vaartnou	Foothills	Production of seed for revegetation.
90	13701-03	Nov. 19		Bayly Dabba	COPE/ITC CAGPL	Introduction of non-native species by farming, Mackenzie Valley
C-34	3264-65	Oct. 15		Duesterhus	Citizen	Land suitability, plants re roses, berries
C-36	3495-96	Jan. 28	IN	Adam	Citizen	Raising of reindeer herd, construction of slaughterhouse, fur factory, muskrat farming

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C-49	4771-72	May 10	VAN	Maultsaaid	Citizen	Solving agricultural problems related to the drought, Sahal desert, Africa
C-56	6092-99	May 19		G. Green E. Maginnes	Citizen Citizen	Use of waste energy, exhaust gases, compressor stations to grow fruits, vegetables
C-57	6276-79	May 20	WIN	K Emberly	Citizen	Resources and energy used in agriculture
C-60	6819-23	May 27	TOR	M. Pick	Citizen	Need for natural gas, production of fertilizers
C-63	7113-16	Jun. 1	MTL	Laford	Citizen	Agriculture important before farmers expropriated for Mirabel airport, now on welfare
169	26233-34	July 23	YK	Stanley	NWT IB/MA	Problems on Pine Ridge reservation, land scattered, poor quality grazing land
C-68	7870-71	July 16	FP	T. Collinson	Citizen	Leases cut off in Mills Lake, Axe Point area; price of beef
197	31008	Oct.13	YK	Bergasse	MVPI	Role of Department of Economic Development in developing capacity to utilize resource; agriculture policy in NWT pending
112	17091-92	Jan. 20		Bayly Bliss	GPC-D	Use of waste carbon dioxide, heat from gas plants, compression stations to run greenhouses
145	22124-25	Apr.26		Clarke	NWT IB/MA	Transnational corporations, involvement in Brazilian agriculture; raw materials on the world market
	22131			Clarke		Brazil, government incentives for large businesses in Indian territories; transnational corporations in the Amazon region
146	22338	Apr.27		Page	NWT IB/MA	Replacement of traditional way of life, native people on the prairies by cash-crop agriculture
149	22820-21	May 3		Simpson	NWT IB/MA	Problems for local agriculture, Egypt, created by the Aswan dam
150	22861	May 4		Hills	NWT IB/MA	European adoption of indigenous technology, New World
	22871-74			Hills		Guyana, shifting agriculture, need for access to large areas of land
	22898-99			Hills		Fell-and-burn agriculture, Amazon forest; switch to another type would require imported fertilizer

AIR QUALITY EMISSIONS

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XXX	3728	Apr.15	YK	Purcell	CAGPL	Design and future operation, compressor stations
	3735-36			Purcell		Sulphur dioxide, nitrogen dioxide
XXXI	3946-51	Apr.16		Koskimaki	CAGPL	Compressor stations, lubricants, sulphur dioxide, nitrogenoxide, carbon dioxide, carbon monoxide
	3990-91			Reid	CAGPL	Burning of concentrated methanol from distillation process
XXXII	4061-62	Apr.18		Purcell		Gas released (rupture) - ignition & burning
	4133-46			Koskimaki		Sulphur emissions from compressor stations
46	6122-23	June 2		Adam	EPB	Potential impact of construction
	6142-44			Bliss	EPB	Sulphur content of gas, interaction with vegetation
50	6647-48	June 6		Marshall	CAGPL	Theory of computer program; H ₂ S per 100 cu. ft.
C-16	1498-500	July 13	OC	R. Bruce	Citizen	Gas emissions, pipeline break
51	6805	Aug. 11	WH	Hemstock	CAGPL	Impact expected during construction and operation phase felt to be minor and exist in localized areas
54	7575-76	Aug. 14		Parker	CARC	Construction; vapour released from the line; creation of micro climates; may affect visibility at harbours and airports
C-23	2308	Aug. 14		R. McKaymie	Citizen	Pollution by automobiles
63	9007-10	Sept.17	YK	Beer	Foothills	Gas turbine exhaust; oxides of nitrogen, carbon monoxide, unburned hydro carbons sulphur dioxide
	9032-33			Beer		Calculations of stack concentrations of SO ₂ ; water vapour levels from RB2-11
	9058-59			Lazerte	Foothills	Lub oil additives - release of vapour in the atmosphere
	9112-13			Beer		Reports underway on ground level concentrations of exhaust emissions from compressors
	9137			Shelton	Foothills	Effect of gas leaks in atmosphere

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AIR QUALITY, EMISSIONS

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74	11017	Oct.17	YK	Scott	MVPI	Issues to be discussed in Phase 2 and 3, Panel 1
73	11665-73	Oct.23		Minning	CAGPL	Vehicular emissions, dust due to construction activities; no long term impact on air quality; primary exhaust components; sulphur oxides, carbon monoxides, unburned hydrocarbons; regulations; studies
79	11680-81	Nov. 3		Hemstock	CAGPL	Delta Producers' findings show no sulphur content in Delta gas
85	12702	Nov. 12		Hemstock		Advantage of electric-powered over gas-powered compressors
85-A	12791-95	Nov. 12		Scott Hemstock		Different emissions from hydrocarbon liquids burned in compressors; standards
86	12882	Nov. 13		Taylor	Foothills	As part of aesthetic considerations
102	15551-52	Dec. 12		Peterson	CARC	Proposed DOE studies, sulphur dioxide effects on lichens; Environmental-Social Committee did not study emissions from gas plants
106	16173-74 16274	Dec. 18		Lent	CARC	Prudhoe Bay burning off re air pollution
111	16942-43	Jan. 16		Lent		Air pollution, ice fog re construction of Trans-Alaska Pipeline System at Fairbanks
C-31	3017	Oct.7	FR	Ridsdale	Citizen	Impact on caribou range of pollution from Delta developments; Scandinavian experience, reindeer range
112	17090-91 17100	Jan.20	IN	Bayly Bliss	COPE/ITC GPC-D	Air pollution in southern Canada Carbon dioxide emissions from gas plants
114	17289 17332-34 17374-81	Jan. 22		Mainland	GPC-D-I	Sulphur dioxide from gas plants, impact on Delta lichen. Taglu gas field, gas plant flaring systems; liquids won't be flared Taglu gas plant, venting systems; flaring; sulphur in gas Taglu gas fields, blowouts giving rise to emissions.
115	17542-43	Jan.23		Stamberg	GPC-D-G	Parsons Lake gas plant, emissions from gas processing, flaring
116	17648-50 17710-12	Jan. 24		Rempel	GPC-D-I	Gaseous emissions from construction machinery and road traffic; heat island effect. log, ice log at gas plants; unburned material from solid refuse incineration; effects of emissions, assessment
117	17799	Jan. 26		Appleton Webb	GPC-D-G GPC-D	Effect of sulphur dioxide on lichens, dust on snow; effect of dust on lichens and plants; control of dust on roads
C-47	4637-39	Mar.13	ARR	Rempel		Monitoring of air quality
C-51	5112	May 12	YK	N. Norbert Beer	Citizen Foothills	Natural gas lighter than air, why it rises, compared to smoke
C-77	8424	Aug.26	DET	Pearse	Citizen	Impact of aluminum smelter, Kitimat B.C.
171	26606	Aug.17	YK	G. Doctor	Citizen	Gas smell drives away caribou
				Dixon	MVPI	Fairbanks, solution to increase traffic

AIRCRAFT LANDING SITES

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XVI	1867	Mar.12	YK	Dau	CAGPL	Land requirements
XIXA	2263-64	Mar.17		Clark	CAGPL	Adequacy; Stability; Thawing
XXXII	4016-17	Apr.18		McMullen	CAGPL	Helipad at communications towers for access

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XXXIII	4272	Apr. 21		Dau		Strips to be constructed
XXXIV	4452-53	Apr. 22		Williams	CAGPL	Size of landing strip; Hercules aircraft
	4491-96			Williams		Air strips, Old Crow, in excess of 5,000 ft.
XXXIX	5051-55	May 15		Dau		Existing strips, those to be upgraded, capital costs
40	5215-16	May 16		Hurd	CAGPL	Located at most compressor stations
41	5293-99	May 20		Hurd		Length of runway necessary for Hercules
47	6175-82	June 3		McT-Cowan	EPB	Disturbance effect on birds
48	6400-02	June 4		Adam	EPB	Minimum degradation through design
50	6650	June 6		Marshall	CAGPL	Instrumentation planned; aircraft usage report
C-15	1406-09	July 12	OC	S. Frost		Citizen Strip built in Old Crow, poor location
	1431-35			A. Peters		Citizen Strip too close to town
C-16	1482-83	July 13		P. Nukon		Citizen Location of Old Crow airport
	1576-77			H. Richter		Citizen Because of airport no room left for expansion of Old Crow
	1590-92			R. Sharpe		Citizen School playground right at airstrip
56	7869-72	Aug. 18	YK	Horte	CAGPL	Up-grading; operational and emergency use; costs; community/CAGPL owned strips
51	6797	Aug. 11	WH	Hemstock	CAGPL	Construction; proximity to compressor stations
52	7014-15	Aug. 12		Dau Williams		Fairbanks corridor; projected and present sites
53	7107	Aug. 13	WH	Dau	CAGPL	Proximity to compressor stations
53A	7304			Leonard	CARC	Recommendations for conditions in Arctic Wildlife Range
55	7636	Aug. 15		Morlan	CARC	Construction and usage may destroy archaeological sites
C-19	1857	Aug. 6	FGH	Rowe Ellwood	CAGPL	Airstrips at compressor stations Foothills
C-21	2157	Aug. 9		G. Loomis	Citizen	Norman Wells - airstrip limits expansion
63	8971	Sept. 17	YK	Mirosh	Foothills	CAGPL - Foothills differences, number, size, location, permanency of landing strips, helicopter pads
	9020-22			Mirosh		Environmental effects of permanent airstrips as opposed to helicopter transport
	9048-49			Mirosh		Comparison of permanent landing strips & helicopter transport
	9069			Mirosh		Location of landing pads in relation to compressor site
65	9600	Sept. 19		Mirosh		Differences from CAGPL; Foothills use of helicopters whereas CAGPL will build 8 permanent airstrips
67	9983-85	Sept. 23		Mirosh		2 helicopters per spread
	10024			Mirosh		Use of existing and abandoned airstrips; lakes or areas to be used for winter landings
68	10044-45	Sept. 24		Hushion	Foothills	Difference from CAGPL - no requirements for permanent landing sites; airstrips must be manned, require additional access roads, may have to be ploughed
	10055-57			Hushion		IFR Regulations re: landings, use of slings, beacons
	10087-88			Hushion		Airstrips included in total acreage required by CAGPL and Foothills
74	11013	Oct. 17		Williams	CAGPL	Rat Airstrip; Gulf project; snow compaction work
75	11059	Oct. 20		Weedon	CARC	Regulations as to right to access and trespassing i.e. aircraft landing sites, limits hunting
	11059			Weedon		Regulations as to right to access and trespassing i.e. aircraft landing sites, limits hunting
79	11679	Nov. 3		Harlan	CAGPL	Acreage requirements
80	11876	Nov. 4		Clark Minning	CAGPL CAGPL	Not repeated if looping occurs
	11915			Clark		Excess gravel could be used for stockpile at aircraft landing sites
83	12374-404	Nov. 7		Environ- mental Panel	CAGPL	Thunder River compressor station strip, gravel requirements, stockpiling gravel as top layer of runway, gravel for airstrip maintenance
	12402-03			Scott Williams	MVPI	Stockpiling gravel on landing strip surface

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95	14370	Dec.3	YK	Jakimchuk	CAGPL	Access and use of air strips; staging point for hunting activities
	14409-10			Gunn	CAGPL	Proximity of region falcon nests to compressor station airstrip
98	14867-72	Dec.8		Scott Gunn		Impact within critical bird areas
	14877-81			Gunn		DEW line sites North Slope
99	15059	Dec.9	YK	Jakimchuk	CAGPL	As evidence of human activity in wilderness areas
C-39	3705	Feb. 18	IN	Robertson	Citizen	Proposal of Gulf to build airstrip near Inuvik
	3712			Robertson		Ministry of Transport policy paper on self-liquidation of airports
114	17293	Jan. 22		Mainland	GPC-D-I	Taglu gas field, airstrips details
	17331-32			Mainland		Taglu field, extension of runway
115	17492	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, no permanent fixed wing airstrip, only at Farewell camp; helicopters only to facilities.
	17535			Stamberg	GPC-D-G	Parsons Lake gas field
	17547			Stamberg		Parsons Lake gas field , size, location
	17563-66			Stamberg		Parsons Lake gas field, size; ice fog problems, strip location
116	17615	Jan. 24		Bayly Stamberg	COPE/ ITC	Amount of gravel needed for airstrip at Parsons Lake site
	17631-35			Scott Stamberg Scott	MVPI	Joint jet strip between Gulf and CAGSL proposed, permanent road needed, location of airstrip and permanent road
130	19737	Mar.16	YK	Marshall	CAGPL	More required because of non-completion of Mackenzie Highway
	19744			Williams	CAGPL	Airstrip will be built at new CD-08 compressor site, Tununuk Junction
	19773-76			Williams		Near Axe Point, construction schedule; additional airstrips required, STOL flights; additional granular material required
131	19873-74	Mar.17		Williams		Gravel needed for Tununuk Junction strip
132	20010	Mar.18		Williams		Use of strip at Tununuk Junction
139	21101-06	Apr.7		Stephen	MVPI	Airstrip construction without a CWS permit
162	24956-58	July 13		Carlson	CAGPL	Helicopter pads, facilities near twin river crossings; question re numbers required for air strip maintenance; snow removal
	25055			Trusty	CAGPL	Strips near Fort Simpson, Hay River, Inuvik, Norman Wells, to be used for movement of personnel, materials
164	25403-04	July 15		Trusty		Transfer of workers, airports to camps, transportation out for leave
	25464-69			Trusty		Logistics personnel, scheduling of transportation; additional cargo handling facilities

ALCOHOL USE

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XXVI	3089-90	Apr.9	YK	Parker	Citizen	Letter, Exhibit C-9, increasing alcohol use in the north
C-6	574	May 30	HR	D. Sonfrere	Citizen	Drinking among people of Hay River Indian Village
C-8	716	June 25	FF	Nielly	Citizen	Drinking, Fort Franklin
C-12	1097-101	July 9	FMcP	E. Colin N. Colin	Citizen Citizen	Peel River Alcoholics Anonymous; Henwood Centre in Edmonton; grant for Alcohol Centre; alcohol consumption
	1129			J. Thompson	Citizen	In community of Fort McPherson

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C-13	1226-34	July 10		K. Graham	Citizen	Problems related to alcohol - nursing station
	1243-44			J. Martin	Citizen	Liquor store in Aklavik; drinking a serious problem
	1254-56			J. Itsi	Citizen	Alcohol problems, Fort McPherson; need for recreation facilities
	1264			J. Charlie	Citizen	Need for recreation facilities
C-14	1296-97	July 11	OC	C. Charlie	Citizen	Concern that problems will develop with Camp nearby
C-15	1379-80	July 12		W. Moses	Citizen	Boot-legging
	1447			B. Allen	Citizen	Conflict between Indian and white cultures
C-16	1540	July 13		W. Eckgrader	Citizen	Oil camps, rig workers in Inuvik
	1558-60			J. Allen	Citizen	Family breakdown; easily available alcohol
	1562-63			L. Netro	Citizen	Smuggling of alcohol, drugs into Old Crow
	1621-23			R. Sharpe	Citizen	Studies done in Denmark; alcohol consumption in different communities
C-17	1757-58	July 17	FL	B. Menikosh	Citizen	Ft. Simpson wanted liquor outlets closed for assembly of Indian Brotherhood and Metis Association
58	8147-48	Aug. 20	YK	Blair	Foothills	Alyeska's plans to prohibit alcohol use in construction sites; evidence of alcohol present; Foothills alcohol policy
	8166-73			Blair		Alyeska re: alcohol in construction camps; Foothills intentions
	8250			Blair		Foothills policy in construction camps
53	7061	Aug. 13	WH	Trusty	CAGPL	Pipeline - impact on rate of alcoholism
	7071-72			Trusty		Pipeline - impact on social problems
	7199-7208			Sprecker	CYI	Increase in court cases since Alyeska
	7220-22			Sprecker		Ratio of southerners in increased crimes
	7243-44			Sprecker		Enforcement in Alyeska camps
C-18	1774	Aug. 5	FGH	F. T'Seleie	Citizen	Territorial Government subsidies of alcohol; social impact
	1787			J. T'Seleie	Citizen	Social impact
C-20	1917	Aug. 7		M. Boucan	Citizen	Deaths of relatives from liquor
	1937			A. McNeely	Citizen	Alcohol not part of the old way; impact
	1942-48			M.R. Drybone	Citizen	Alcohol the worst influence from the south
	1986-87			A. Tobac	Citizen	Community stress caused by alcohol
	2008			B. Shae	Citizen	Money from pipeline would be wasted on liquor
	2018			F. Barnaby	Citizen	Territorial Government control
	2061			A. Rabisca	Citizen	Alcohol abuse in the south
	2065			F. Rabisca	Citizen	Alcohol a problem of all races
C-21	2127-28	Aug. 9	NW	C. Barnaby	Citizen	Native attitude
	2134			E. Koren	Citizen	Escapism
	2148			R. Laycock	Citizen	Deterrent to jobs
	2175			R. Yakeleya	Citizen	Sole subsidy of N.W.T. government
C-22	2253-54	Aug. 11	WH	I. Armstrong	Citizen	Fight in construction camps
C-23	2387-88	Aug. 14		B. Cooper	Citizen	Stereotype of southerners towards native drinking
95	14519-21	Dec. 3	YK	Bayly Berger	COPE/ITC	Camp restrictions; civil liberties; access to communities, construction spreads; James Bay
C-25	2557-59	Sept. 8	FS	Hammond Workman	Citizen CAGPL	Alcohol control in camps
	2576-80			Casavant	Citizen	Alcoholic culture, social assistance
C-26	2643	Sept. 9		Lafferty	Citizen	Equality re Indian and white drunks
	2664-65			Menicoche	Citizen	Abuse re part of life in Simpson
	2668-69			Menicoche		Difficulty of coping with social transition eased by alcohol; result of excess re moral and social degradation
	2673-74			Norwegian	Citizen	Desire to learn how to use liquor
C-27	2740-42	Sept. 10		Dodd	Citizen	Hire North policy re alcohol in camps, after hours
C-28	2829	Sept. 10	WR	E. Hardisty	Citizen	Habit, money goes to alcohol
C-31	3007-08	Oct. 7	FR	McLeod	Citizen	Alcohol - impact on NWT natives
	3010-11			Yale	Citizen	Alcohol - impact on native families

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C-35	3395-402	Oct.22	LI	Wheeler	Citizen	Associated with Alyeska Pipeline construction, Probisner Bay study - impact of alcohol on natives; need for treatment facilities in north	
	3403-04			Hasen	Citizen	Repetitive crime - natives' failure to understand or respect rule of law	
C-36	3528-29	Jan.29	IN	Sineok	Citizen	Alcohol introduction by fur traders	
	3533-39			Sineok		Alcohol laws in Yukon; Gulf Oil alcohol policy; alcohol - social, cultural impact; legislation re family financial administrator, educational probation	
113	17227-40	Jan.21	IN	Hobart	CAGPL	Changing patterns in Coppermine after employment of residents by Gulf	
	17269			Hobart		Liquor problems in Coppermine after residents hired for oil exploration work	
143	21713	Apr.14	YK	Giroux Virtue	NORTRAN NORTRAN	Alcohol related problems of Nortran trainees	
146	22255-60	Apr.27		McCullum	NWT IB/MA	Crimes related to alcohol; breakdown of traditional values; tool for assimilation	
148	22585-87	Apr.29		Snowshoe	NWT IB/MA	Life-style change, low rental housing, welfare, working in towns, alcoholism, rehabilitation centre	
	22708			Asch	NWT IB/MA	Young unmarried man spending earnings on alcohol	
151	23115-21	May 5		Cruikshank	CYI	Alaska highway, increased drinking, liquor-related offences among natives; Indians charged for drinking under the Indian Act	
	23141-42			Johns	CYI	Liquor rationing during WWII, bootlegging, smuggling	
	23150-51			Jacquot	CYI	Rationing during WWII	
152	23225-29	May 6		Cruikshank McClellan	CYI	Increased native usage associated with Alaska highway construction in Yukon	
	23218-19			Cruikshank		Evaluation of reinstatement of prohibition proposal	
153	23423-25	May 7		Sharp	CYI	Construction workers from Anvil Mine, use of bar at Ross River	
	23440			Sharp		Impact of bar, Ross River, focal point for drink related problems	
	23496-97			Sharp		Question as to whether there should be liquor available at construction camp sites, to alleviate social problems in Ross River	
C-50	5049-50	May 11	VAN	Giovanna	Citizen	Colonial policies towards natives leading to alcohol use; major cause for native imprisonment	
C-51	5122-24	May 12		B. Eriksen	Citizen	Problems with drinking, skid road areas	
C-53	5439-30	May 14	CAL	Getty	Citizen	Only one family with drinking problems before construction of Big Horn dam, now almost all use alcohol	
C-54	5611-17	May 17	EDM	Shirt	Citizen	Organization of alcoholism programs, beneficial to Indian social life and employment	
C-55	5800-01	May 18		R. Dion	Citizen	Facilities in Edmonton area; Poundmaker Lodge, Alcoholic and Drug Abuse Commission, Henwood Treatment Centre	
162	25071-72	July 13	YK	Trusty	CAGPL	Difficulties of non-alcohol policy, availability on a controlled basis	
163	25102-13	July 14		Hobart	CAGPL	Honigmanns' study of liquor consumption, liquor ordinance offenders in Inuvik, 1966-67; reasons for drinking; relationship with quality of physical surroundings; violence due to intoxication	
	25150-60			Hobart		Mackenzie River communities, increases in liquor consumption; correlation between liquor consumption, convictions of offenders	
	25194			Bell	NWT IB/MA	Organized opposition to availability, consumption	
	25205-11			MacQuarrie Hobart	MHA/NWT	Licenses for home brewing	
164	25351-57	July 15		Berger Hobart		Inuvik, Mackenzie Valley, liquor ordinance violations	

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164	25363	July 15	YK	Hobart	CAGPL	Impact of poor housing conditions on liquor consumption
	25413-14			Hobart		Construction camps, liquor on a controlled basis
	25484-40			Hobart		Problems vary from community to community; social indicators
165	25515	July 19		Ellwood	Foothills	Implementation of controlled access, tavern in major camps
	25534-37			Jensen	Foothills	Serious social problem, related to other social problems, statistics of NWT Alcohol and Drug Co-Ordinating Council, relationship between income and consumption; initiation of alcohol education and rehabilitation programs; recommendations to Foothills re alcohol in construction camps
	25639-40			MacQuarrie Jensen	MHA/NWT	Plans to set up Detox Unit in Inuvik General Hospital, alcohol education facility
166	25680-81	July 20		Jenson		Question as to which guests of Foothills would be allowed in the tavern
	25733			Jenson		Medical and social problems created by alcohol use
	25740-46			Ellwood		Bouncers to deal with trouble makers in taverns, not RCMP; control of bootlegging in camps, taverns aid to smoother running of camps
167	25965-66	July 21		Brody	COPE/ITC	Arctic Bay, native concerns about Whites, liquor consumption
168	26082-84	July 22		Brody		Strathcona mine, availability of liquor
	26117-39	July 22		Brody		History in the Americas; stereotypes about native drinking; use of liquor in various societies; spree drinking sessions; fights, accidents, child neglect
	26139-71			Brody		Increase in consumption, drinking problems Pond Inlet, Arctic Bay, seasonal fluctuations in use.
	26172-90			Brody		Part of colonial situation of native people; period when natives legally allowed to drink
	26193-207			Brody		Relationship with introduction of wage employment, less use of land
C-68	7827	July 16	FP	A. Canadien	Citizen	Problems with alcoholism, Fort Providence
C-71	8026	Aug. 10	RE	A. Lamouelle	Citizen	White people have not responded to their alcohol problem
C-74	8292	Aug. 13	RL	M. Zoe	Citizen	Use of money
	8297			J. Tailbone	Citizen	Use of money, family problems
C-77	8416-18	Aug. 26	DET	F. Erasmus	Citizen	Government promotion to stupify and silence Natives
171	26667-70	Aug. 17	YK	Dixon	MVPI	Alaska, liquor accessible to young, increased use
180	27980-85	Sept. 7		Bayly Whiteford Berger Nessel St. Eloi	COPE/ITC MVPI MVPI MVPI	Restriction of liquor in construction camps, position of unions; bars or liquor stores in camps to prevent bootlegging, unions' position
181	28051	Sept. 8		McCambly	MVPI	Provision in a controlled setting at jobsite
	28079-81			Bayly LeClair	MVPI	Restrictions in camps, not too strict to encourage bootleggers
182	28268-71	Sept. 9	YK	Clayton	MHA/NWT	Prevention of mental and physical disorders related to alcoholism; government's priority to alcohol related problems
	28301			McCombs	MHA/NWT	Alcoholism programme funded by Alyeska Pipeline Service Corporation for pipeline workers
184	28457-58	Sept. 14		Kehoe	COPE/ITC	Represents breakdown in way of maintaining social order
	28472-73			Atcheson	COPE/ITC	Abuse, violence
	28485-86			Atcheson		Native solution, Frobisher Bay, close local outlet

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185	29640-41	Sept.15	YK	Noble	COPE	Lack of facilities for treatment and rehabilitation; present facilities in north based on southern models
	28713-20			Cass	COPE	Different pattern of alcohol used in NWT; traditional drinking patterns of natives and whites; courage gained by drinking; increase in violence, congenital diseases, consanguinity
	28780-83			Berger Schaefer	COPE	COPE's panel on alcoholism, prohibition
187	28978-94	Sept.17		Raddi	COPE	Impact of pipeline construction on native alcohol problem; impact of accessibility to liquor in communities; alcohol problems in Alaska resulting from development; alcoholism among young native people; facilities to curb alcoholism; Alcohol Information Centre, Ingamo Hall, educating people about alcohol; liquor outlets in the delta; bootlegging; alcohol in construction camps
	28997-9015			Bruce	COPE	Commission of Inquiry into non-medical use of drugs; Alcohol Problems in Canada; per capita consumption measurements; alcohol related crime rate; health problems associated with alcohol; preventing alcohol misuse; NWT government policy on alcohol pricing; right of natives to decide philosophy on alcohol use
	29017-33			Raddi Bruce		Controlling sale and availability of liquor; bootlegging; control of liquor advertising; bars in construction camps; creating controlled drinking environments, enforcement; increased enforcement of Liquor Ordinance during pipeline construction; right of Dene to decide about their use of alcohol; need for alcohol education
	29033-58A			Raddi Bruce Berger		Use of home brew; old pattern of drinking among Inuit; cost of bootleg liquor; Poundmaker, native rehabilitation place; alcohol rehabilitation centres in Yellowknife; indicators of alcohol problems; effect of native religion on alcohol problems; Ko Go Cho Society; Alcohol and Drug Co-ordinating Council; alcohol programs available; facilities; alcohol education publications; responsibility; native alcohol counsellors
	29059-64			Bruce		Alcohol and Drug Co-ordinating Council, membership, selection; natives drink to socialize not to escape, according to Brody; programs for families of alcoholic; fear that social services will become a "crutch"; prohibition vs local opinion
	29064-66			Raddi		Money is cause of drinking; availability of liquor supply
	29114-17			Bruce		Indigenous people must decide on their use of alcohol, interaction with Territorial government
188	29237-45	Sept. 21		Lincoln	COPE	Problem for Alaska native population, impact of alcoholism resulting from pipeline construction; alcohol-related crime rate, study by Judy Hill "Alcohol and the Alaskan offender"; alcoholism programs
189	29253-55	Sept. 22		Lincoln		Death rate in Alaska attributed to alcohol; Napaskiak Alcoholism Council, alcoholism program
189A	29491-95			R. Worl	COPE	Alcohol-related violence, death, suicide among Alaskan natives
	29500-01			R. Worl		Use in Barrow, results in hostility
	29513-14			Berger R. Worl		Cash spent on alcohol and drugs led to increase in violence, death, suicides in Alaska
192	29951-53	Oct. 4		Bennett	MVPI	Drinking in camp at Valdez ignored by social services, shipped to Anchorage for treatment
197	30995	Oct.13		Bergasse	MVPI	No alcohol allowed in Hire North construction camps
202	31936-37	Nov.17		Bayly	COPE/ITC	Inuvialuit must have power to implement policies, programs
	32022-23			Thompson	CARC	Recent problems in Tuktoyaktuk

ALCOHOL USE (continued)

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203	32160-62	Nov.18	YK	Veale	CYI	Fear of increased consumption if pipeline built, factors leading to this, problems anticipated; alcohol awareness program; importing liquor to Old Crow limited; community control over alcohol consumption; liquor facilities in camps managed by applicant
204	32330-31	Nov.19		Parker	NWT GOVT	Alcohol education programs; alcohol and Drug Coordinating council; financial contributions; detox centres; social welfare counsellor programs; no liquor in construction camps
	32345-46			Parker		No liquor in construction camps

ALTERNATIVE ENERGY SOURCES

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C-49	4786	May 10	VAN	Scoten	Citizen	No economic alternative to oil and gas by 1980's
C-50	4876-77	May 11		Dobyns	Citizen	Energy system allowing distribution to the whole earth, relying on circumpolar unification
	4891-93			Stace-Smith	Citizen	Substituting one form of energy for another; energy conservation
	4984-85			Horte	CAGPL	Though drive to prevent pipeline, no alternative energy source suggested by public
	5046			Paine	Citizen	Recommend development of alternate energy sources
C-51	5092	May 12		W. Taylor	Citizen	"Soft" energy sources - wind, solar
C-52	5256-59	May 13	CAL	E. Reid	Citizen	Need for greater research, renewable energy sources
	5408			L. Turbayne	Citizen	Research needed
C-53	5447-48	May 14		Pearce	Citizen	Alternative sources will not ready by early 1980's - must develop oil and gas now
	5518			Nickle	Citizen	Converting garbage to energy; environmental hazards in all energy trapping processes
C-54	5657-58	May 17	EDM	Dickinson	Citizen	Monies spent on solar energy research little compared to oil and gas
	5673			Murray	Citizen	Fossil fuels may ultimately be replaced by solar energy, nuclear, tidal power, geothermal energy and coal
	5705-07			Bannister	Citizen	Cement industry able to use alternate energy, oil and coal; must explore coal deposits
C-55	5848-52	May 18	EDM	B. Hall-Beyer	Citizen	Need for full-scale research; wind-generating systems
	5917			P. Hayes	Citizen	Solar, tidal power
C-56	6052	May 19	REG	R. Allan	Citizen	Large investment required
	6086-87			P. Prebble	Citizen	Need for federal investment, solar energy
	6092-99			E. Maginnes	Citizen	Use of waste energy, exhaust gases, compressor stations
C-57	6168-69	May 20	WIN	N. Coglan	Citizen	Study by Federal Government, "An Energy Strategy for Canada"
	6183			A. Lansdown	Citizen	Renewable forms, solar, wind, bio-mas
	6311-12			D. Pimlott	CARC	Energy sources from wind, sun, weight energy, conservation
C-58	6368-71	May 25	TOR	S. Casey	Citizen	A means of conservation: solar energy, wind
C-59	6395	May 26		M. Hummel	Citizen	Solar, wind, biomass, best supply mechanism
	6514-17			C. Godfrey	Citizen	Pipeline committing country to dependence on a finite resource; need alternative production facilities
C-60	6628-29			S. Band	Citizen	Even with new sources, still need for pipeline
	6656			Sister Corinne	Citizen	Need for money, research
	6719			D. MacKenzie	Citizen	Implementation of trans-disciplinary research; allocation of funds
	6734-37			S. MacLean	Citizen	Social implications; easily understandable
	6746-52			L. Maclean	Citizen	Need for less emphasis on gas, oil
C-62	6960	May 31	MTL	Genest	CAGPL	In the long run will have to use all forms of energy
C-63	7003-05	June 1		Geeza	Citizen	Save non-renewable energy sources for later, emphasize need for solar energy, tidal power

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C-63	7016	June 1	MTL	Mountjoy	Citizen	Will still be dependant on petroleum next 10-20 years, nuclear power and especially coal, best alternative for now
	7054			Boucher	Citizen	Environmental dangers of nuclear power; stations along the St. Lawrence
	7150-51			Scyner	Citizen	Renewable energy sources should be investigated
	7144-84			Edwards	Citizen	Hazards and benefits of nuclear power development
C-64	7323	June 3	OTT	Harrison	Citizen	Wind generator, solar energy
	7343-45			Seaborn	Citizen	Need to develop other sources, example
	7350-52			Wilder	CAGPL	Renewable energy sources available one day, but must rely on present non-renewable sources for now
C-65	7390-03	June 4		L. Newell	Citizen	Promotion and potentials of solar energy
	7438-39			A. Fisher	Citizen	Impact of solar, geothermal energy will not be felt till after 1990
	7463			H.L. Pottle	Citizen	Government should allocate funds for research
	7486			S. Leggatt	Citizen	Delays give time for canvassing alternative sources
C-66	7635	June 7	CH	A. Campbell	Citizen	Development on PEI
C-67	7729	June 8	HAL	P. Keddy	Citizen	Money should be spent on research
	7746			B. Hollands	CAGPL	Solar and windpower are not feasible at this time, need for more research
	7803			E. Beale	Citizen	More money should be spent on research into wind and solar power
181	28117-18	Sept. 8	YK	Reimer	MVPI	Gas depleting resource; synthetic gas, nuclear, gasification of coal
	28132			Reimer		Pipeline is not only solution, problem must be studied further
	28154-55			Reimer		Utilizing other sources first, gasification of coal, Germany as an example

ALTERNATIVE SYSTEMS

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XVI	1795-96	Mar. 12	YK	Dau Fibbs	CAGPL Foothills	Scheduling of presentation of material
	1822-23			Dau Anthony	CARC	Comparison between oil pipeline, railroad; terrain information
XXXII	4005-06	Apr. 18		McMullen	CAGPL	Communications systems for oil pipeline or railway
XXXVII	4792-94	May 13		O'Rourke	CARC	Barges from Fort Nelson down Liard River
55	7620-24	Aug. 15	WH	Hughes	CARC	Yukon has experience in various railway and highway systems; linear structures constructed in the Mackenzie Valley have not been extensive enough to evaluate the options
C-23	2349-50	Aug. 14		I. Warner	Citizen	Supports railway system, hydro electric developments
	2351-52			C. Taylor	Citizen	Consideration of rail alternative urged by Yukon Conservation Association
61	8606-07	Sept. 15	YK	H.L. Stevens	U.S.W.A.	Alternative options, such as a railway need to be considered
64	9348-49	Sept. 18		Mirosh	Foothills	Use of dirigibles or tankers to bring gas from Banks or Victoria Island into Foothills system
77	11464	Oct. 22		Roed	CARC	Corridor concept; future demands e.g. railroad, other pipelines; alternative uses, transport of minerals
80	11875	Nov. 4		Minning	CAGPL	DIAND requires projection of borrow requirements for railroad
90	13656-60	Nov. 19		Environmental Panel	CAGPL	Highway, railroad, impact
91	13845-92	Nov. 20		Dau		Capital cost comparisons, alternative routes
111	16978	Jan. 16		Davies	MVPI	Other methods of shipping gas south
C-30	2965-66	Oct. 6	PP	Berger	MVPI	Gas transport by rail

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C-51	5150-51	May 12	VAN	Hemstock	CAGPL	Shipping gas, Alaska to mainland U.S.
C-52	5299-308	May 13		W. Milne	Citizen	Moving gas by airship; research by Shell Oil
C-53	5459	May 14	CAL	Donovan	Citizen	Should build pipeline down the Alaska Highway and not export Canadian gas
C-68	7911-12	July 16	FP	G. Cargan	Citizen	Use of barges, conversion of gas to liquid form
C-72	8079	Aug. 11	RE	Arrowmaker	Citizen	Suggested that oil could be railed from Aklavik to South
C-73	8174	Aug. 12	LLM	J. Tsatchia	Citizen	Transfer oil and gas by railroad or truck
	8211			C.P. Nitsiz	Citizen	Approves of railway to move oil or gas
	8230	Aug. 13	A. Simpson	Citizen	Railroad to transport gas and oil; road would be cheaper	
C-74	8303-04		RL	Arrowmaker	Citizen	Train, plane
C-76	8359-60	Aug. 25	DET	Chief Charlo	Citizen	Railroad safer
	8362-63			Berger		Railroads, not prepared to build
	8366			A. Liske	Citizen	Railroad, safer
	8372			I. Tsatta	Citizen	Train, safer
	8374-75			M. Noel	Citizen	Railroad, safer
C-77	8397	Aug. 26		J. Sangris	Citizen	Extend rail from Hay River to Fort Simpson
	8409		S. Abel	Citizen	Railroad	
	8434-35		J. Tobie	Citizen	Railroad or a smaller pipe	

ALTERNATIVE TRANSPORTATION CORRIDORS

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XVI	1795-99	Mar. 12	YK	Dau	CAGPL	Scheduling of presentation of material; economic feasibility of a route from Mackenzie Delta to 60th parallel only
	1807-15			Dau		Consideration in route selection; scheduling of evidence presentation
	1823-27			Anthony Dau	CARC	Comparison with prime route; location of Fairbanks Corridor, Fort Yukon corridor, off-shore corridor, west of Mackenzie corridor
	1843-46			Anthony Dau		Fairbanks corridor, terrain information; Fort Yukon corridor
XVII	1886-87	Mar. 13		Anthony Dau		Technical feasibility of alternative corridors
XXXVII	4752-55	May 13		Bayly	COPE/ITC	Off-shore route
42	5420-21	May 21		Hurd	CAGPL	Off-shore, ROW
	5444-51		Berger		Alternative routes, corridors	
43	5579-81	May 22		Horte	CAGPL	Selection of route, Mackenzie Valley
	5641-47		Gibbs		Gun barrel route (starting Fort Simpson)	
44	5863-75	May 23		Bayly		Cross delta proposal
45	5887-92	May 24		Bayly		Mackenzie Delta area
48	6439-41	June 4		Templeton	EPB	Cross Delta and Fort Simpson route changes lack information - should be deleted
49	6537-75	June 5		Horte		Route comparisons
50	6682-91	June 6		Horte		Ft. Yukon and Fairbanks corridors
58	8163	Aug. 20		Blair	Foothills	Foothills intentions re: coastal route and gas reserves
51	6749-6881	Aug. 11	WH	Panel	CAGPL	Fairbanks corridor, Fort Yukon corridor parallels Alyeska oil pipeline route north of Galbraith Lake, offshore corridor; location of reserves; compressor station - number and spacing; zones of continuous and discontinuous permafrost; construction spreads for the Fort Yukon corridor; construction scheduling; facilities - wharves and stockpile sites; operation and maintenance; environmental impact
52	6885-7056	Aug. 12		Banfield	CAGPL	Comparison of alternate and prime routes
53	7057-59	Aug. 13		Berger		CAGPL to present segmented costs of alternate routes
	7104-06					scheduling considerations
	7120-39		Trusty	CAGPL	Significant adverse social and economic effects on north	
	7143-53			Trusty		Alternatives ranked environmentally, economically
	7154			Clark	CAGPL	Slopes not studied on alternative corridors

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53	7191-92 7247-58 7269-70	Aug. 13	WH	Joe Wah-Shee Thompson	CYI NWT IB/MA CARC	Social impacts of the Fairbanks and Fort Yukon corridors Land claims and alternate routes Implications re Arctic National Wildlife Range
53A	7289-7305 7327-32 7334 7388-90	Aug. 13		Leonard Leonard Thompson Geist	CARC CARC	Environmental impact; Arctic National Wildlife Range Superiority of Fairbanks route Ranking of alternate routes environmentally Impact of routes on mammals
54	7418-19 7431-33 7437-48 7456-61 7467 7489-7550 7555-88 7612-24	Aug. 14		Geist Geist Geist Banfield Weedon Weedon Weedon Parker Hughes	CARC CAGPL CARC CARC	Fairbanks, Fort Yukon impact on Dall Sheep; opening up of mountainous area Fairbanks - further study is merited; supply lateral from Mackenzie Delta across the Dempster Highway re: impact on Caribou wintering grounds; calving grounds and nursery area for many species Ranking of routes and alternative corridors in terms of effect on caribou herds and IBP sites Fairbanks, Fort Yukon Corridor; impact environmental, slope stability, land use; revegetation; repair and maintenance; location of facilities Cross or impinge on the present or expanded Arctic National Wildlife Range Fairbanks and Fort Yukon Corridors; location of route; impact environmental; terrain and slope stability; river crossings; fish; corridors; utilization of Alyeska corridor Fairbanks Fort Yukon corridors; Alyeska right-of-way Fairbanks Fort Yukon; terrain information; assessment of impacts; engineering experiences - Dempster and Klondike highways
55	7656-67	Aug. 15		Banfield		Fairbanks, Fort Yukon corridor.
C-22	2220-21 2237-38 2268-70 2274-75	Aug. 11		Berger Berger Berger V. Jutronica		Importance to the Yukon Use of Dempster & Alaska Highway Examination at Whitehorse hearings Companies to pay for feeder lines
C-23	2307 2317-24 2323-24 2333 2352 2361 2370	Aug. 14		R. McKaymie A. Fekete A. Fekete R. McCandless C. Taylor Berger Berger	Citizen Citizen Citizen Yukon Conservation Society	Preference for Alaska Highway route Comparison with mainline Greater impact of oil pipeline break along mainline route El Paso proposal Avoidance of Klunne National Park Outlined to Whitehorse residents Concern of CARC witnesses re wildlife range
63	8968-69	Sept. 17	YK	Scott	MVPI	Procedural; continuation of evidence on alternative corridors
68	10171	Sept. 24		Genest	CAGPL	Request to reintroduce question of CAGPL cost estimates of alternatives and prime route
74	11016	Oct. 17		Scott		Appearance of CARC witnesses; cross-examination of Whitehorse witnesses on alternative corridors
75	11120	Oct. 20		Parker Weedon		No rank ordering of route choice by State of Alaska except for an all Trans-Alaskan Route, political reasons
76	11144-79 11170-11298	Oct. 21		Parker Weedon Parker Weedon		Fairbanks alternative re number of environments traversed; established transportation corridor; Alyeska right-of-way Use of Alyeska right-of-way, Alaskan policies; Fairbanks corridor
77	11343-442 11452-88	Oct. 22		Rutter Roed	CARC CARC	East of the Franklin route; route selections; terrain information and hazards in pipeline routing; logistic problems, difficulties in operation and maintenance re: east of the Franklins; increased construction, costs; access roads to be built Edge of the shield route; possible hot oil pipeline route; use of Mackenzie River transportation benefits; terrain advantages

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78	11489-609	Oct. 23	YK	Roed	CARC	Edge of the shield route; Y pipeline, Polar Gas operations; east of the Franklins; Fort Yukon, Fairbanks corridors
80	11854-59	Nov. 4		Hemstock	CAGPL	Terrain considerations and wildlife aspects of Fairbanks and east of the Franklins Routes
81	11962	Nov. 5		Anthony	CARC	Reports relied upon by Dr. Roed filed
82	12155-56	Nov. 6		Veale Berger	CYI	CYI not presenting further evidence re Fairbanks corridor, extent of study of proposal
91	13780-83	Nov.20		McCart	CAGPL	Impact assessment, fish, Fairbanks corridor, east of Franklin Mountains
	13893-98			Dau	CAGPL	Fairbanks route, costs
93	14194-96	Dec. 1		Gunn	CAGPL	Terms of research; route selection
94	14204-05	Dec. 2		Gunn Berger		Off-shore route - sensitive environmental areas
95	14386-451	Dec. 3		Environmental Panel	CAGPL	Research, studies, environmental assessment; route selection; environmental considerations; corridor concept
	14452-58			Environmental Panel	CAGPL	Consideration of alternative routes, environmental assessment; Fairbanks corridor, Fort Yukon route; failure, fuel spills
	14523-35			Berger Veale		Request for additional hearings re: impact of the Fairbanks, Fort Yukon corridors, community hearings in Whitehorse
96	14564	Dec.4		Banfield	CAGPL	Fort Yukon Corridor; Dempster Highway
	14571-73			Jakimchuk	CAGPL	Consideration of Fairbanks corridor assuming no Mackenzie Delta lateral through the Dempster
	14684-87			Jakimchuk Veale		Expressed preference for the Fairbanks corridor re: caribou
	14700-01			Gunn		Birds along the Fairbanks corridor - literature review; Yukon River area of importance to water-fowl; raptors
97	14717-20	Dec.5		Hollingworth Marshall Berger Scott	Foothills CAGPL MVPI	FPC report on Fairbanks alternative route
101	15411	Dec. 11		Peterson	CARC	Personal knowledge of all routes excepting Ebbutt Hills and east of Franklins route
	15507			Peterson		Guideline corridors do not extend east of Franklin
102	15645	Dec. 12		Novakowski	CARC	East of Franklins route could interfere with future expansion of wood bison range
103	15739-42	Dec. 15		Stein	CARC	Evaluation of East of Franklins Route re fisheries, gravel removal, methanol toxicity
	15745			Walker	CARC	Fort Yukon, Fairbanks corridors, background information
	15747-54			Walker		Fort Yukon, Fairbanks corridors compared to coastal and interior routes re impact on fish resource
	15798-99			Bell	NWT IB/MA	Cross-examination of Stein re East of Franklins route - potential impact on fish
	15830-38			Stein Marshall		Cross examination of Stein re East of Franklins route, Edge of Shield route re impact on fish resource, sedimentation
105	15977-78	Dec.17		Hollingworth Steigenberger	CARC	Fairbanks route; four alternatives, Interior and prime, Fort Yukon, Fairbanks corridor
	15991-92			Stein	CARC	Franklins Route
	16030-34			Marshall		Fairbanks corridor, Prime Route, Interior Route
106	16183	Dec.18		Lent	CARC	Fairbanks route re environmental advantages
	16273-74			Bayly Lent	COPE/ITC	Fairbanks route re impact of pipeline; quality of life
107	16289-93	Jan.12		McT-Cowan	EPB	Fairbanks Corridor - least environmental damage; lack of data

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108	16422-23	Jan.13	YK	McT-Cowan	EPB	Preference for the Fairbanks Corridor re caribou/ pipeline interaction
	16451			Veale Scott	CYI MVPI	Fairbanks; community hearings for communities along the Fairbanks corridor
	16508-09			McT-Cowan		Fairbanks Corridor preference
109	16727-35	Jan.14		Veale Scott		Consideration of the Fairbanks Corridor, community hearings
110	16845-50	Jan.15		Calef	CARC	Calef's third alternative route on the interior; reasons of preference; facilities, disturbance, caribou; Fairbanks route, Inuvik lateral
	16862-63			Bergerud	CARC	Route preference; strained table - Fairbanks versus interior versus coastal routes
	16902-03			Lent		Route preferences
111	16956	Jan.16		Calef		Alternative route south of Porcupine River to avoid caribou
	16978-17000			Davics	MVPI	Corridor selection methods
130	19820-21	Mar.16		Williams	CAGPL	Filing "Alternative Corridors and Systems of Transportation", offshore corridor considered
131	19994-98	Mar.17		Williams		Barry route cost versus prime route; Yukon offshore route, ice scour problems
132	20018-37	Mar.18		Williams		Alternate routes, Mackenzie Delta; difficult river crossings; Shallow Bay crossing; engineering difficulties of routes
135	20487-94	Mar.25		McCart	CAGPL	Comparison of circum - and cross-Delta routes re impact on fish; coastal versus interior routes if oil pipeline follows
	20528-29			Environmental Panel	CAGPL	Preferences for circum- versus cross-Delta route
	20533-36			Hemstock	CAGPL	Circum - versus cross-Delta route, impact
	20546-60			Hemstock		Circum -, cross-Delta, Barry routes, environmental impacts.
136	20623-26	Mar.26		Scott		Examining possibilities of "DFW line route", North Slope
151	23040-41	May 5		Berger Veale		Fairbanks route - possible community hearings
	23205-10			Smith	CYI	Fairbanks route
152	23379-406	May 6		Berger Veale Hollingworth Steeves Bayly Bell	Foothills CAGPL COPE/ITC NWT IB/MA	Proposal to transport gas from Prudhoe Bay via Fairbanks corridor by Northwest Pipeline and Westcoast Transmission
C-47	4563-64	Mar.13	ARR	N. Norbert Berger	Citizen	Railway suggested, tankers, planes, submarines
C-50	4975	May 11	VAN	Simmons	Citizen	Alaska Highway, single corridor concept
C-53	5569	May 14	CAL	Blair	Foothills	Foothills involved in proposed Fairbanks corridor, Alaska Highway alternative
C-57	6185-86	May 20	WTN	A. Lansdown	Citizen	Fairbanks corridor, less environmental and social impacts than prime route
C-60	6648-51	May 27	TOR	Berger		CYI request, community hearings, Fairbanks route
C-64	7262-63	June 3	OTT	Nosquin	Citizen	To protect northern environment, should send pipeline along Fairbanks corridor, using existing ROW
	7359			Rutherford	Foothills	Fairbanks - Alcan highway corridor, allowing US to gain access to its Alaskan gas
C-65	7488-90	June 4		S. Leggatt	Citizen	Alcan route, impact would be to areas already developed for highway, advantages
	7545			S. Loewan	Citizen	Fairbanks Corridor route proposed by North- west Pipeline Corporation, advantages
C-67	7696-704	June 8	HAL	R. Rohmer	Citizen	Prudhoe Bay natural gas pipeline from Alaska across Canada to United States; El Paso system of piping; Polar Gas project route; "Tundra Corridor Route to Churchill"
	7742-44			Ellwood	Foothills	Fairbanks - Alaska Highway route

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192	30023-24	Oct. 4	YK	Berger		Fairbanks corridor, Alcan proposal, only serious alternate route; languages affected by Alcan route
194	30384-86	Oct. 6		Hemstock	CAGPL	Alcan corridor - oil, gas transport in corridor
201	31731-40	Nov. 16		Marshall	CAGPL	Disadvantages, environmental and social impact of pipeline construction along Fairbanks - Dempster corridors
203	32074-75	Nov. 18		Anthony	CARC	Witnesses for International Wildlife Range favour Fairbanks corridor as pipeline route
	32100-02			Anthony		Calef route should be chosen if pipeline to be built in Yukon, further studies urged on alternative routes
	32192-96			Veale	CYI	Inadequate analysis of Fairbanks corridor, Fort Yukon Corridor by applicant; considerations before decision made on alternative corridors; Foothills' position on corridors

AQUATIC ECOSYSTEMS

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XX	2387-94	Mar. 18	YK	Clark	CAGPL	Sediment transport; toxic materials & other pollutants; thermal pollution; methanol; warm water testing; water velocity, channel constriction, temporary river crossing work pads, berms; slope stability; icings, depletion of water resource at fish overwintering areas; culverts
XXIV	2809-11	Apr. 7		Hollingshead Clark	CAGPL	Impact of sedimentation on fish and ecosystem
XXVI	3211-28	Apr. 9		Hollingshead		Effect of spoil fill in channel
XXXVIII	4841	May 14		Williams	CAGPL	Lakes, removal of snow from those that do not support fish
XXXIX	5076	May 15		Williams		Potential effects of siltation
	5086-87			Williams		Assurance of water flow at river crossings
46	6092-93	June 2		Templeton	EPB	Ecosystem approach to writing impact report
47	6150-69	June 3		Wilimovsky	EPB	Pipeline interaction, concern for habitat changes
	6264-75			Gourdeau	EPB	Inter-related elements in ecosystem
51	6805-10	Aug. 11	WH	Hemstock	CAGPL	Impact on fish; water quality; control of sewage disposal
	6878-81			Banfield	CAGPL	Construction of an oil and gas pipeline in the same area could double effects; Brooks range; adaptability of the fish
52	7005-09	Aug. 12		Banfield		Diversity of Arctic species and nature of watersheds
54	7481-82	Aug. 14		Weedon	CARC	Impact of spills; development of Marsh Creek anticline and Beaufort Sea offshore oil and gas province would cause greater noise and disturbance
	7490-91			Weedon		Fort Yukon route; Yukon Flats; Yukon River
	7497-99			Weedon		Arctic marine ecosystems; polar ecosystems; influence of the seasonal ice pack and arctic river create unique near shore lagoonal ecosystems
63	9042-43	Sept. 17	YK	Bayly	COPE/ITC	Anaerobic and aerobic ponds for sewage
79	11719-20	Nov. 3		Dabbs	CAGPL	Native aquatic plants dominant in areas with standing water
80	11953-55	Nov. 4		Dabbs		Some aquatic species would root in ponded areas
82	12271-75	Nov. 6		McCart	CAGPL	Critical areas of concern re siltation, erosion, effects on aquatic organisms; culverts
84	12557-71	Nov. 8		Anthony McCart Hemstock	CARC	Water borrowing from sensitive areas; effect of lake lowering; campsite effects; CAGPL guidelines
85	12623-26	Nov. 12		Bayly McCart		Water withdrawal, North Slope
85-A	12758-60	Nov. 12		McCart		Water withdrawal, effects
	12776-90			Scott McCart	MVPI	Silt, effects
88-A	13383-94	Nov. 17		McCart		Impacts from siltation, oxygen levels, water withdrawal, obstructions of passage and sub-surface drainage, borrow sites

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92	14006-14	Nov. 21		McCart		Baseline data; possible contamination by chemical spills; clean up procedures
100	15195	Dec. 10		Bayly Bouckhout	Foothills	Benthic invertebrates studies, Kotaneelee River, Pointed Mountain Line
	15222			Hayden	Foothills	Fish poisons also affect aquatic invertebrates
	15285-318			Hayden		Information needed before making recommendations on river crossings; experiments
103	15738-39	Dec. 15		Stein	CARC	Methanol toxicity
	15742			Stein		Program to assess potential industrial development
	15755			Steigenberger	CARC	Impact comparison Northern Yukon routes
104	15845-70	Dec. 16		Bayly Stein	COPE/ITC	Species interdependence re feed habits, critical habitat areas, species resiliency
	15871-78			Stein Walker Steigenberger Millen	CARC CARC	Recommendations to the Inquiry re aquatic ecosystems
	15884-89			Steigenberger Walker		Feeding habits of some Arctic species in Mackenzie system, Beaufort Sea, South Yukon
105	16002-74	Dec. 17		Walker Steigenberger Stein		Environmental change detrimental to fishing resources re pipeline construction and operation; habitat of fish, water availability and removal; watershed re Summit Lake; alignment changes; sedimentation
112	17073-80	Jan. 20	IN	Bliss	GPC-D	Water productivity in Delta, Arctic island lakes, Shallow Bay; habitat, Delta, Shallow Bay, importance of area
	17116			Bliss		Concern for impact of toxic chemical spills to do with oil, gas production
121	18366-87	Feb. 10		Percy	COPE/ITC	Physical, biological factors influencing the spread characteristics and impact (physiological, behavioural) of spilled oil in Arctic marine ecosystems
	18388-96			Grainger	COPE/ITC	Annual variation in Eastern Arctic snow, ice cover, sunlight penetration; Beaufort Sea Project - baseline aquatic ecosystem studies; plant, zooplankton quantities, distribution in southern Beaufort Sea; crude oil re impact on rates of bacterial nitrogen fixation, denitrification, bacterial biodegradation potential, phytoplankton, seaweed productivity
	18404-24			Percy	COPE/ITC	Impact of crude oil on marine invertebrates in the intertidal, sub-ice, water column, sediment zones; crude oil weathering re toxicity; recommendations - oil impact studies needed
	18424-B-38			Stein	COPE/ITC	Main objectives of Environmental-Social Committee's Delta fish resource studies; reports from Beaufort Sea study; Mackenzie Delta-importance re spawning, overwintering, as a migration route for anadromous, resident, marine species; impact of dredging, seismic exploration, drilling fluids, oil spills on aquatic organisms; sensitive coastal areas; measures to control oil spills; need for resource monitoring studies
122	18516-17	Feb. 22		Smith	COPE/ITC	Approach needed in studying Arctic aquatic ecosystem
	18648-54			Percy		Arctic marine ecosystem - duration of restoration period following an oil spill
--	18667-70			Percy		Incorporation of oil compounds into Arctic food chains

AQUATIC ECOSYSTEMS (continued)

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124	18931-32 18971-79	Feb.13	IN	Milne Milne	COPE/ITC	Impact of oil on marine organisms (general) Seasonal impact of oil spillage from Beaufort Sea drilling on fish, ringed and bearded seals, invertebrates, polar bears, whales
130	19750	Mar.16	YK	Hemstock	CAGPL	Barry's (CWS) cross-Delta route will have more impact than CAGPL's route
135	20574-81	Mar.25		Sprague	MVPI	Water quality criteria for protection of aquatic life
136	20633 20636	Mar.26		Sprague Sprague		Effects of oil refinery wastes on water fleas Effects of oil refinery effluents on water fleas
139	21223-30	Apr.7		Nicol	COPE/ITC	Impact of Mizushima oil spill on aquatic ecosystem, mariculture edible seaweeds in Inland Sea

ARCHAEOLOGICAL AND HISTORICAL SITES

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XVIII	2034-37	Mar.14	YK	Dau Bayly Watson	CAGPL COPE/ITC CAGPL	Consideration re: route selection; Big Eddy on Husky Channel; inventories, Millar's report; Fort Good Hope
XXIV	2860-61	Apr.7		Clark	CAGPL	Flagging of critical areas
XXV	3055	Apr.8		Hollingshead	CAGPL	Holmes Creek - northern crossing
XXXI	3892	Apr.16		Anthony Purcell	CARC CAGPL	Pipeline bending, ditching
XXXIV	4393 4498-99	Apr.22		Dau Williams	CAGPL	Construction plans, location of pipeline, ROW Klokut site, Old Chief site, near Old Crow
XXXVII	4760-61	May 13		Bayly	COPE/ITC	Location of sites, blasting
46	6075-76	June 2		Craik	EPB	Exhibit 135 assessment of impacts
47	6248-49	June 3		Gourdeau	EPB	Proper salvaging of cultural artifacts, display in North
48	6385-87	June 4		Gourdeau		Sec 11 Code - protection of sites
C-14	1297-98	July 11	OC	C. Charlie	Citizen	Spot on Porcupine River, stopping place on caribou hunt
C-15	1375-6 1429-30 1452-76	July 12		W. Moses A. Peters D. Irving	Citizen Citizen Citizen	Records of life of native people, Old Crow Flats Klo-Kut site; discovery of artifacts Klo-Kut site; damage by winter seismic road
C-60	847-49	Aug.22	YK	Bouckhout	Foothills	Fort Alexander, historical grave sites
51	6807	Aug.11	WH	Hemstock	CAGPL	Prepared archaeological study along routes during construction; need for field surveys, detailed classification of the route into priority sections and surveillance during construction to detect sites
53	7281-82	Aug.13	WH	Collins	CARC	Sites in Arctic National Wildlife Range
55	7626-45	Aug.15		Morlan	CARC	Old Iron Flats re: archaeological excavation and techniques; about 400 prehistoric and early historic site identified thus far; southwestern and central Yukon; prehistory and ethnography of the Old Crow Flats; history of man and environment in the unglaciated areas of the Yukon; pipeline and highway corridors - compounded impact; access and access roads, snow roads re: destruction of sites; ditching may uncover as well as destroy sites
61	8618-22	Sept.15	YK	Gibbs	Foothills	Review of cross-examination of Foothills panel by Scott; clarification of Foothills route location with respect to grave sites at Fort Alexander; location of Mackenzie highway
67	9993-96 10216-17	Sept.23		Mirosh Berger	Foothills	Archaeological inspectors for each spread Report by Morlan on damage caused by bulldozers to sites
77	11462	Oct.22		Roed	CARC	Location, identification, planning prior to construction
82	12214	Nov.6		Hemstock	CAGPL	Agreement that protection or salvage should be policy
83	12352 12428	Nov.7		Scott Hemstock Hemstock	MVPI	Borrow sites as good archaeological sites Importance of Rat River borrow site
86	12885-89	Nov.13		Reeves	Foothills	Study; impacts of pipeline, protection
87	13074-99 13163-70 13194	Nov.14		Reeves Reeves Scott		Reports, artifacts to museums; excavation timing, sensitive areas; during construction; conflict with work areas Archaeological surveys of route Inclusion of archaeologist on next CAGPL panel

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88	13202	Nov.17	YK	Ryder Bouckhout	MVPI Foothills	Protection of sites; salvage
	13258-72			Reeves	Foothills	Vandalism; crew education; surveillance; route surveys; excavation
	13277-91			Reeves Bouckhout		Salvage operations, monitoring personnel
89	13505	Nov.18		Hemstock	CAGPL	Professional archaeologists will supervise sites; little impact on sites
95	14430	Dec.3		Banfield	CAGPL	Work stoppage due to contact with an archaeological site
99	15090-104	Dec. 9		Hemstock		Salvage programme, different approaches, CAGPL. Foothills
100	15272-73	Dec. 10		Bouckhout		Not included in living environment impact assessment
101	15431-34	Dec. 11		Peterson	CARC	Fort Alexander and other concentrated archaeological sites at river crossings recommended as avoidance areas, guideline #4
109	16587	Jan. 14		McT-Cowan	EPB	Location of archaeological sites shown on EPB atlas, future ones to be included later
116	17654	Jan.24		Rempel	GPC-D-I	Possibilities at Taglu, Parsons Lake and Niglintgak
117	17778-79	Jan.26		Rempel Wopford	GPC-D-S	Taglu and Niglintgak, archaeological studies
132	20010	Mar.18	YK	Williams	CAGPL	Area around Tununuk Junction of historical interest to natives of Tuk
133	20134	Mar.23		Rowe	CAGPL	Impact of cross-Delta route
151	23049-62	May 5		Irving	CYI	Sites in Old Crow area, Kutchin ancestors of modern Old Crow people
	23066-70			Irving		Klo-Kut site, damage by a cut road; possible re-routing, areas of archaeological importance; plans of CAGPL for archaeological preservation
	23077-81			Irving		Alyeska pipeline, salvage of sites, finds
C-42	4072-78	Mar.5	Sachs	Rousselot	Citizen	Establishment of a historical museum in Sachs Harbour; archaeological sites on Banks Island
	4084-90			Rousselot		Slides of archaeological site, utensils, implements, muskox hunt
193	3088	Oct. 5		Hernandez	EPB	Pre-construction archaeological evaluation of proposed facility sites, route alignments; findings encountered during construction

ARCTIC NATIONAL WILDLIFE RANGE

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XV	1663-64	Mar.11	YK	Dau	CAGPL	Route location, selection
XVI	1771	Mar.12		Dau Gibbs	Foothills	Selection of Interior Route vs. Coastal Route
XVII	1886-7	Mar.13		Dau Anthony	CARC	Interior vs. Coastal Route
46	6144-46	June 2		Bliss	EPB	Alaska and Yukon ranges
49	6538-45	June 5		Horte	CAGPL	Coastal route - alternative, also International range
51	6778-80	Aug.11	WH	Hemstock	CAGPL	Interior route, prime routes proximity to the Arctic National Wildlife Range, Canning River
52	6931-33	Aug.12		Banfield	CAGPL	Comparative Impacts of route proposals
	7043-44			Hemstock		Likelihood of traverse by CAGPL line
53	7065	Aug.13		Trusty	CAGPL	Avoidance by alternative route
	7078-81			Dau		Route alternative if wildlife range protected
	7268-83			Thompson Collins	CARC CARC	Description of the Canadian proposal
53A	7285-91			Collins		Development of petroleum within range
	7296-97			Leonard	CARC	Arctic National Wildlife Range Society position re pipeline routes
	7306-09			Leonard		Origins of the Range
	7309-26			Thompson		Critical and unique areas comprising the Range
	7334-35			Thompson		Impact of permanent road
	7340-42			Thompson		Wildlife Range Society position re pipeline and routes
	7343-50			Thompson		Regulations to govern the Range

ARCTIC NATIONAL WILDLIFE RANGE (continued)

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54	7462	Aug.14	WH	Weedon	CARC	Location of the proposed pipeline corridor facilities could in turn lead to the development of oil and gas within the Arctic National Wildlife Range
	7464-78			Weedon		Proposed gas line would increase the likelihood of exploration and leasing of state owned lands offshore from Arctic National Wildlife Range; mandate
	7496-97			Weedon		Fort Yukon corridor; recommendations by U.S. Secretary of the Interior for a southwest extension of the Arctic National Wildlife Range; Wind National Wild River area; Yukon Flats National Wildlife Refuge; Porcupine National Forest, Yukon Charley National River area
	7545			Weedon		Pipeline traversing the Wildlife Range
	7549-50			Weedon		Synergistic effects; disturbance is irreversible
	7560-61			Parker	CARC	Corridors proposed by Bureau of Land Management across the Wildlife Range; Brooks Range
55	7651-52	Aug.15		Banfield	CAGPL	Caribou - Porcupine herd; use of the range; development
C-23	2369-70	Aug.14		Berger		CARC witnesses' concerns re routing
75	11051-141	Oct. 20		Parker Weedon		Interior route would open up the Arctic Wildlife Range; probability of oil and gas exploration within the wildlife range
76	11170-76	Oct. 21		Parker Weedon		Effect of human intrusion in a wildlife habitat; research
	11215			Parker		Federal lands south Arctic Wildlife Range re pipeline corridors
	11243			Weedon Parker		Routing of Alyeska; land use; environmental impacts of Alyeska
76	11263-98	Oct. 21	YK	Weedon Parker		Allowable activities i.e. surface exploration of minerals; concept of wilderness area; land uses, Wilderness Preservation Act; oil exploration and development
80	11851-53	Nov. 4		Hemstock	CAGPL	Applicant aware of location of Range as area advocates wish to safeguard
	11921			Dabbs	CAGPL	Dr. Hobbie - studies of lakes and snowcover in lakes
94	14211	Dec. 2		Banfield	CAGPL	Undesirable to cross the Wildlife Range
	14292-93			Berger		Wish expressed Alaskan government not to cross the Wildlife Range;
99	15064-82	Dec. 9		Hemstock Banfield		Development in range, alternative locations, formation, management, purposes of range, hunting
106	16169	Dec.18		Lent	CARC	Musk oxen, Arctic Gas Prime Route
	16181-87			Lent		Arctic coastal tundra re protected U.S. status; wilderness designation; calving area, protected in Alaska and North America; exploitation re impact on aesthetics, scientific and wilderness values
	16225-26			Calef	CARC	Crossed by Coastal Route; qualification for protection in American "Wilderness Act", consequences of pipeline through range
	16242-56			Lent		Muskox range, crossed by coastal prime route; legal status re wilderness potential; recreation
	16247-52			Lent		Legal status re wilderness potential, administration
107	16297	Jan.12	YK	McT-Cowan	EPB	Favour interior route
108	16435-37	Jan.13		McT-Cowan		Access to a previously undisturbed area; preference for neither prime or interior route
	16559			Bliss	EPB	Arctic National Wildlife Range should be a wilderness area
	16572-74			McT-Cowan		Consideration re extension of the Western Arctic Wildlife Range across the Yukon; retention of traditional activities for Old Crow people; development of oil and gas reserves
110	16770	Jan.15		Bergerud	CARC	To set up a refuge, National Park to join onto the Arctic National Wildlife Range
	16847-49			Calef	CARC	Calef's alternative route on the interior, avoidance of the Arctic National Wildlife Range

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111	16930	Jan.16		Calef		Avoidance of the interior route
C-64	7261-62	June 3	OTT	Mosquin	Citizen	Extending range to Yukon to form 18 million acre range
199	31547-50	Oct.15	YK	Berger Beakhust	COPE	CARC's support for international wildlife range, position of Old Crow; compatability between park and traditional pursuits by native people
201	31740-48	Nov.16		Marshall	CAGPL	Coastal portion of range lacking wilderness values, impact of pipeline would be minimal
203	32068-72	Nov.18		Anthony	CARC	Protected as wilderness area; basis for Canada's consideration of International Wildlife Range; routing through range not compatible

BEAUFORT SEA

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XVI	1826	Mar.11	YK	Dau	CAGPL	Off shore route
XVIII	2014-15	Mar.14		Dau		White-out conditions, blizzards
XXV	2995-97	Apr.8		Cooper Morgenstern	CAGPL CAGPL	Ice cakes - scour, gouging
XXXVII	4737	May 13		Bayly	COPE/ITC	North slope, Yukon, bad weather conditions
XXXVIII	4831	May 14		Williams	CAGPL	Snow making - use of sea water questionable
	4924-25			O'Rourke	CAGPL	Bering Sea Route
XXXIX	5063	May 15		Dau		Transportation of fuel to storage tanks - route
XL	5219	May 16		Hurd	CAGPL	Sensitive terrain regions
41	5306-07	May 20		Fielder	CAGPL	Movement of ACV on water, ice
42	5420-21	May 21		Hurd		Ice movement, ice scour
	5559			Horte	CAGPL	Potential reserves
	5564-66			Horte		Potential reserves, looping
43	5676-77	May 22		Gibbs	Foothills	Reserves available; trend gas
	5686			Gibbs		Supply available
45	5943	May 24		Bayly		Transportation of pipe through Bering Straits
49	6456	June 5		Horte		All Canadian gas goes to Canadian markets
C-I	44	Apr.12	AK	Hemstock	CAGPL	Route location
C-16	1541	July 13	O.C.	W.Eckgrader	Citizen	Off-shore rig, use of helicopters
	1551			R.Allen	Citizen	Fisheries and Marine Service, monitoring of seismic activities
52	6902-07	Aug. 12	WH	Anthony	CARC	ACND studies re oil pipeline from Beaufort Sea
53	7079-7100	Aug.13		Routing Panel	CAGPL	Implications of Arctic International Wildlife Range
	7090-7100			Hemstock Williams		Future offshore development
54	7462	Aug.14	WH	Weedon	CARC	Development of the Beaufort Sea Offshore Province
	7467-68			Weedon		Potential oil and gas deposits
	7480-81			Weedon		Location of Arctic National Wildlife Range; catalyst for intensive prospecting of the Beaufort Sea offshore oil and gas province should a pipeline be built
	7500-10			Weedon		Offshore corridor; permafrost in the bed of the sea; sea and ice scour; frost heave; bank erosion of coastal areas; pipe breakage and spills; environmental aspects; noise and construction activity re: impact on mammals wildlife and water fowl; aircraft noise and disturbance
C-20	2060-61	Aug. 7	FGH			Imperial Base Camp - abuse of Inuit sacred grounds
C-23	2317-19	Aug.14	WH	A. Fekete	Citizen	Distance from Mackenzie River pipeline crossing
65	9604	Sept.19	YK	Mirosh	Foothills	Considering supplying fuel by tanker through Beaufort Sea
67	10017-21	Sept.23		Mirosh		Final shipment to Mackenzie River via Beaufort Sea
70	10581	Sept.26		Lewis	MVPI	Water spreading from the Babbage River Delta over top of Beaufort Sea ice
72	10759-67	Oct.15		Lewis		Coastal processes; Tuktoyaktuk area; shipping channel and staging area; storm action and erosion of coastal cliffs
75	11053	Oct.20		Weedon		Beaufort Sea offshore province
	11062			Weedon		Eastern Beaufort Sea, oil and gas deposits
	11254-98			Parker Weedon	CARC	Oil discovery
77	11469	Oct. 22		Roed	CARC	Beaufort Sea - Banks Island area, potential development
78	11521	Oct. 23		Roed		Location of gas-bearing sediments around the Beaufort Sea
79	11738	Nov. 3	YK	Harlan	CAGPL	Icings along coast
80	11905	Nov. 4		Williams		Gravel site - Shingle Point a spit or a shore bar
84	12589-90	Nov. 8		Bayly McCart	CAGPL	Lake at Komakuk Beach, salinity from sea storm, flows out into sea
85	12618	Nov.12		Bayly Williams		Komakuk Beach, sewage disposal into sea
86	12988-91	Nov.13		Bayly Lawrence	Foothills	Sewage into sea, Komakuk Beach camp
87	13116-17	Nov.14		Lawrence		Sewage treatment, Komakuk Beach camp

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89	13419-44	Nov.18	YK	Gunn	CAGPL	Disturbance to birds along coast
91	13914-51	Nov.20		McCart		Present knowledge, fish movements, Beaufort Sea coast; effects of methanol
94	14204-10	Dec.2		Gunn McCart		Series of coastal lagoons along coast - sensitive environmental area
95	14474-76	Dec.3		McCart		Disposal of methanol into the Mackenzie River, with eventual contact with the Beaufort Sea; fish
96	14700	Dec.4		Gunn		The coast is of importance to waterfowl and other birds
97	14803	Dec.5		Gunn		If coastal route used, pollution of sea must be avoided
98	14870	Dec.7		Gunn		Avoidance of oil spills, pollution, on coast
C-39	3726	Feb.18	IN	Hill	Citizen	Offshore drilling encouraged; parallel research with drilling
112	17030-31	Jan.20		Horsfield	GPC-D	Remaining oil/gas potential of Mackenzie Basin under sea; wells drilled offshore
	17040			Bliss	GPC-D	Oil, gas discoveries
	17063			Bliss		Beluga population
	17076			Berger Bliss		Beluga population
	17126			Berger		Bowhead whale population
114	17347-48			Bayly	COPE/ITC	Obtaining borrow material for artificial offshore islands; future hydrocarbon potential lies offshore
	17367-68			Mainland	GPC-D-I	Taglu gas fields, precautions against storm flooding
115	17459	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, subject to storm surges from sea
	17599			Bayly		COPE/ITC witness Shearer's evidence on future gas/oil development in area
116	17701	Jan.24		Appleton	GPC-D-G	Possibility of fuel spills during transportation to Parsons Lake
	17730			Webb	GPC-D	Whales in eastern Beaufort Sea
103	15766-67	Dec.15	YK	Steigenberger	CARC	Biological/engineering evaluation re overwintering areas for fresh water species
	15804-06			Stein	CARC	Beaufort Sea Program - fisheries/pipeline impact research
104	15846	Dec.16		Stein Bayly	COPE/ITC	Mackenzie studies - methods used in determination of species life history
	15850			Stein Bayly		Current knowledge re fish spawning habits; Beaufort Sea Study Group
	15873-77			Steigenberger Walker	CARC	Fisheries research recommendations made to the inquiry
	15879			Bayly Stein		Fish utilization of coastal lagoons
	15886			Steigenberger		Beaufort Sea study re inconnu feeding habits
105	16034-36	Dec.17		Steigenberger		Critical overwintering, fish habitats; ice
	16054			Stein		Studies re overwintering sites, Malloch Bay
107	16300	Jan.12		McT-Cowan	EPB	Off-shore exploration; impact on the coast of any oil spills
C-36	3458-60	Jan.28	IN	Raddi	Citizen	Well drilling - potential environmental impact
	3516-17	Jan.29		Mainland	GPC-D	Beaufort Sea environmental program - offshore blowouts, licencing of drilling
	3555			Binder	Citizen	Safeness of offshore drilling
C-38	3628-29	Feb.12		Berger		Summary - conflicting viewpoints on Beaufort Sea development
	3667-69	Feb.15		Berger Mirosh	Foothills	Potential for, impact of a Beaufort Sea oil well blowout

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118	17923 18098-102	Jan. 27	IN	Tod Berger Horsfield	GPC-D-I GPC-D-I	Artificial islands, source of harbour Drilling operations, Dome
121	18367-87 18390-402 18409-87	Feb. 10		Percy Grainger Percy Stein Barry Sergeant	COPE/ITC COPE/ITC COPE/ITC COPE/ITC COPE/ITC COPE/ITC	Physical, biological factors influencing the spread characteristics and impact (physiological, behavioural) of spilled oil in Arctic marine ecosystems Sunlight penetration of southern Beaufort Sea; quantities, distribution of plants, zooplankton; Beaufort Sea Project - baseline aquatic ecosystem studies; crude oil re impact on rates of nitrogen fixation of bacteria, denitrification, bacterial biodegradation potential, phytoplankton, seaweed productivity Benthic organisms - impact of exposure to oil contaminated sediments; redeposition of sediments; marine organisms - tolerance to short-term lethal, sub-lethal oil exposure and associated physiological disorder response; need for further studies - oil impact on Arctic marine ecosystem; reports from Beaufort Sea study; Mackenzie Delta, Beaufort Sea importance re spawning, overwintering, feed sites, as a migration route for anadromous, resident, marine species; impact of dredging, seismic exploration, drilling fluids, oil spills on aquatic organisms; sensitive coastal areas; measures to control oil spills; need for resource monitoring studies; bird populations, nesting sites, migration routes used in Beaufort Sea and littoral zone, Arctic Islands; migrant bird susceptibility to oil spills in leads along migration routes, at nesting sites; bow-head, white whales - population distribution, migration routes, calving practices in Beaufort Sea; impact of human noise, activity on whale behaviour
121	18409-87	Feb. 10	IN	Percy Stein Barry Sergeant		Annual timing of oil spills, impact on whales, seals White whale protection through catch restrictions Summary of recent studies on ringed, bearded seals - movements, population fluctuation, distribution, role in Arctic marine ecosystem, breeding habitats, effects of immersion in, ingestion of crude oil, further study recommendation
122	18491 18496-97 18498-518 18524-27 18540-45	Feb. 11		Sergeant Sergeant Smith Stirling Stirling	COPE/ITC COPE/ITC	Slides - polar bear population movements, feeding areas, ringed, bearded seal breeding habitats related to presently leased offshore acreage, proposed well drilling sites Population concentrations, nutritional health of ringed, bearded seals; impact of industrial activity on critical polar bear ice habitat areas; polar bear maternal denning sites
122	18561-72 18601-02 18605-19	Feb. 11	IN	Percy Stein Grainger Sergeant		Status of Beaufort Sea Report on hydrocarbons in invertebrate tissues, sea water; oil spillage at sea - susceptibility of impact on birds, recovery period for birds, fish after spill Seismic techniques used in Beaufort Sea - impact on fish Nutrient content, inhibition of plant production due to oil covered seas; whales - feeding habits, winter distribution, co-operative research program, Inuit hunting in delta, proposed reserve, impact of oil spills in leads

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122	18628	Feb. 11	IN	Stirling	COPE/ITC	Polar bear population
	18639-41			Smith	COPE/ITC	Impact of development on seal population
	18648-50			Percy		Arctic marine ecosystem - duration of restoration period following oil spill
	18661-66			Grainger Percy		Funding of Beaufort Sea project; studies - bio-degradation of oil under ice; time period required for further studies
	18705-14			Stein Stirling Smith		Sealing centres, seal movements; polar bear population, sports hunting revenue
123	18755-69	Feb. 12		Yates	MVPI	Definition of Cabinet's granting of approval in principal for drilling in Beaufort Sea
124	18873-95	Feb.13		Shearer	COPE/ITC	Continental shelf, longshore currents - sediment deposition, offshore permafrost, pingos, ice islands - frequency of scouring
	18898-22			Lewis	COPE/ITC	Coastal zone composition, retreat, nearshore water, sediment movements; storm surge frequency - delta inundation; coastal land forms - definition of location, composition, development; location of coastal shore installations
	18922-9018			Lewis Milne	COPE/ITC	Beaufort Sea project - summary of preliminary environmental assessment; growth, movement, decay of sea ice; storm surges; under water oil and gas well blow out scenario - possible transport of oil - winter (1976) to summer (1977) from three Beaufort Sea drill sites; effects of oil on seasonal resident biota - population recovery periods; oil contamination of coastal areas; probability of an oil blow out; effectiveness of oil spill counter-measures, difficulties in conducting cleanup operations
125	19020-36	Feb.14		Lewis Shearer		Problems related to buried flowlines in coastal retreat areas, pingo formation; use of silos in offshore drilling - depth of placement re scouring; pipeline routing - use of offshore channels; offshore drilling - permafrost complications
128	19526-28	Feb.18		Berger Milne		U.S. drilling in Beaufort Sea, cost of ecology study
	19532-43			Milne		"Oil, Ice and Climate in the Beaufort Sea" by Walker; ice circulation gyre, blowouts, cleanup procedures
130 --	19821-22	Mar.16	YK	Williams	CAGPL	Installing line in Beaufort Sea not comparable to pipeline across Shallow Bay, reasons
131	19996-98	Mar.17		Williams		Ice scour problems for Yukon off-shore route, supply lines from off-shore wells
133	20150	Mar.23		McCart	CAGPL	Impact on fish in sea due to change in Delta environmental conditions
134	20315	Mar.24		Webb	CAGPL	Publications on white whales in area
136	20620	Mar.26		Banfield	CAGPL	Oil spill risk greater with "DEW line route", North Slope
C-40	3865	Feb.23	AK	Greenland	Citizen	Meeting of Gas - Water Advisory Committee re drilling in Beaufort Sea
C-42	4114	Mar.5	SACHS	Essau Hnatink	Citizen GPC-D-G	DOMES experiments with oil on ice before drilling in Beaufort Sea
C-49	4804-08	May 10	VAN	Spong	Citizen	Whales inhabiting Beaufort Sea, need for their protection
C-50	4894-97	May 11		Stace-Smith	Citizen	Exploration drilling, impacts
C-59	6476-82	May 26	TOR	D. Mackay	Citizen	Oil spills, production and transportation; gas blowouts
C-65	7539-42	June 4	OTT	H.T. Schwarz	Citizen	Drilling for oil, safety hazards, damage to ships; whales
194	30441	Oct.6	YK	Wylie	MVPI	Oil production potential in Beaufort Basin

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54	7509-10	Aug. 14	WH	Weedon	CARC	Offshore alternative will cause disruption of benthic communities; impacts of construction, operation and repair of chilled pipeline
63	8991-92	Sept. 17	YK	Beer	Foothills	Sewage lagoons and waste treatment; organic matter; physical - chemical process; biological or activated sludge treatment
85-A	12786-87	Nov. 12		McCart	CAGPL	Effects of silt
91	13816-18	Nov. 20		McCart		Effect of river crossings, siltation
	13840-43			McCart		Effects of methanol, studies
	13926-51			McCart		As food for fish; impact of methanol, other toxic fluids, siltation
92	13970-71	Nov. 21		McCart		Siltation may increase natural benthic populations; varying population densities
	13991-93			McCart		Culverts, increase in river velocity, siltation
	14020			McCart		Use of chalk to contain oil spill; impact on benthos
93	14100	Dec. 1		McCart		Research, effects of sedimentation on benthic organisms
100	15194	Dec. 10		Hayden	Foothills	Monitoring invertebrates, Kotanelee River, Pointed Mountain line
	15299-310			Hayden		Effects of siltation; experiments
104	15884	Dec. 16		Stein	CARC	Impact of sedimentation
	15939			Stein		Proposed study program of three stream crossings on Mackenzie Highway
105	16024	Dec. 17		Marshall	CAGPL	Effects of sedimentation
121	18385-87	Feb. 10	IN	Percy	COPE/ITC	Impact of oil on benthic organisms re masking, mimicking of natural chemical cues
	18397-98			Grainger	COPE/ITC	Role of benthic organisms in Arctic marine ecosystems
	18410-12			Percy		Impact of oil-contaminated sediments upon benthic epifauna, infauna
	18433			Stein	COPE/ITC	Oil contaminated sedimentation - impact on aquatic ecosystem
122	18651-52	Feb. 22		Percy		Duration of restoration period following an oil spill
125	19121-22	Feb. 14		Snow	COPE/ITC	Studies - impact of oil spillage on benthic communities in lakes, rivers
	19131			Snow		Oil impact studies - Caribou Bar Creek
126	19283-90	Feb. 16		Snow		Toxicity of crude oil, refined petroleum products to benthic organisms; influence of river bed substrates on benthic recovery from oil exposure
134	20283-301	Mar. 24	YK	McCart	CAGPL	Distribution in Delta channels, impact of siltation from crossing construction, studies done
	20310			McCart		Gravel backfill, Shallow Bay crossing, will provide favourable habitat for macro invertebrates
135	20459	Mar. 25		McCart		Benthic fauna as fish food, Delta channels
	20593-95			Sprague	MVPI	Impact on organisms as means of measuring siltation in streams
136	20647-53	Mar. 26	YK	Sprague	MVPI	Diversity index change of benthic macro-organisms as measure of siltation; recovery from siltation effects
	20655			Sprague		Use of diversity index change to measure siltation
	20670-71			Sprague		Use of diversity index change
	20677-78			Sprague		Use of control location upstream of diversity index change monitoring site
	20710			Peet	MVPI	Must be protected because are food source for fish

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XV	1664-65	Mar.11	YK	Dau	CAGPL	Cost of project
	1709-11			Watson	CAGPL	Selection of route, location
	1739			Berger		Cross Delta route change, CAGPL to prepare drawing
XVI	1753-54	Mar.12		Gibbs	Foothills	Relevance of cross examination, qualifications, backgrounds of witnesses
	1773-74			Gibbs	CAGPL	CAGPL to provide figures re pipeline costing - U.S./Canadian proportions
	1791-94			Genest		Fort Simpson route change, avoidance of Liard River crossing
	1813			Dau		Timing of panels
	1840-42			Berger		Tests in delta by gas producers; on-going drilling
	1851			Dau		Guidelines for Northern Pipelines
	1871-74			Anthony	CARC	Guidelines, reject cross delta route, environmental reasons
XVII	1925-27	Mar.13		Berger		Panel schedule, cross examination
	1944-45			Berger		Traplines
	1955-56			Williams	CAGPL	Route selection
	2000-04			Williams		Failures on Yukon Coastal Plain
XVIII	2017-18			Williams		Native employees
	2024			Williams		Coastal route
	2032			Dau		Cross Delta route
	2122-26			Dau		Prime and alternate routes
XIX	2175-76	Mar.17		Hardy	CAGPL	Long pipelines in continuous permafrost
	2225-26			Hardy Clark	CAGPL	Engineers' visit to USSR
XIX-A	2230-32	Mar.17		Clark		Geothermal regime
	2238-39			Clark		Route selection criteria
XIX-A	2253-56	Mar.17	YK	Clark		River crossings, ice jams
	2262-63			Clark		Contingency plans
	2274-75			Clark		Thermal regression
	2285-86			Clark		Talus slope stability
XX	2288-89	Mar.18		Hardy		Interior route
	2250			Morgenstern	CAGPL	Skin flow
	2360-61			Morgenstern		Great Bear River
	2363-64			Hardy		Permafrost in river beds
	2373-82			Berger		Cv, explanation of terms
	2384-85			Berger		Community hearings
	2392-93			Clark		Icing
XXI	2424-26	Mar.19		Hollingshead	CAGPL	Pipe burial
	2437-42			Hollingshead		Pipe burial, river crossings
	2457			Cooper	CAGPL	Scour
	2467			Cooper		Fossil Floodplain
	2472			Clark		Conduction
	2486			Cooper		Ice jam
	2502			Hardy		Oil pipeline
XXII	2514-15	Mar.20		Berger		Community hearings
	2599-2601			Clark		Flow under frost bulb
	2636-38			Cooper		Frost bulb and scour
XXIII	2649	Mar.21		Cooper		Blench Report, 1974
	2707-08			Williams		Environmental aspects of route change
XXIV	2718-24	Apr.7		Clark		Discontinuous permafrost; route selection
	2754-55			Williams		Chinchaga River; blasting
	2772			Clark		ROW for elevated pipelines

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XXIV	2788	Apr.7	YK	Lane	COPE/ITC	Matters for next panel		
	2837-42			Hardy	CAGPL	CAGPL response to scour problems, bed degradation		
	2876-77			Genest	CAGPL	Allow Bayly to resume geotechnical subjects		
XXIV-A	2941-47			Clark	CAGPL	Risk analysis study, Aleyeska Line		
XXV	2949	Apr.8		Genest		From vol. 23 - environmental factors in route change		
	3015-17		Genest		Owen report - author as witness, Cassagrande's report			
	3042		Scott	MVPI	Mark Hollingshead's report as exhibit			
	3048-49		Williams	CAGPL	Pipelines in Northern Alberta or B.C.			
	3065		Cooper	CAGPL	100 year flow			
XXVI	3108-11	Apr.9		Hollingshead	CAGPL	Distance of river bed and pipe, ice gouging		
	3114-16		Hollingshead		Trench - volume of sand removed			
	3126-28		Hardy		Crossings trenched in Fraser			
	3196-98		Slusarchuk	CAGPL	Overburden, frost heave, lensing			
	3252-53		Clark		Shear planes, water run off			
	3262-63		Slusarchuk		Distinction between pipeline heave, heave of ground above pipeline			
XXVII	3294-95	Apr.10		Williams		Sans Sault test site selection		
	3313		Slusarchuk		Ice content, thaw, surface settlement			
	3322		Scott		Slope failures, Sans Sault			
	3359-60		Slusarchuk		Chilling, possible restoration of permafrost			
	3417		Slusarchuk		Temperature measurement, prediction			
XXVIII	3485-86	Apr.11		Clark		Culvert inlets and outlets		
	3489-90		Clark		re Culvert size			
	3512		Hardy		Submission from citizen, Fort Norman			
	3529-30		Morgenstern	CAGPL	Re-vegetation, limitations			
	3545-48		Scott	MVPI	Unstable/marginally stable slopes			
XXIX	3596-97	Apr.14	YK	Clark		Alignment sheets - soil profile		
	3603-05			Clark		Temperature probes along the route		
	3609-10			Clark		Bore holes - depth of frost, drilling Apr,Sept. 1974		
	3683			Purcell	CAGPL	Heavy wall pipe		
	3694			Holmberg	CAGPL	Fracture, specimens		
	3702-04			Purcell		Automatic vs. manual welding		
	3711-14			Price	CAGPL	Resistance to brittle fractures; adjoin Price's lecture		
XXX	3718-3722			Apr.15		Price		Pressure, wrinkles, buckling longitudinals
	3727-28				Price		re Temperature differential	
	3743-46	Purcell			Automatic/manual welding, decision, manpower			
	3752	McMullen	CAGPL		re Microwave system			
	3781-84	Gibbs	Foothills		Looping			
	3788	Gibbs			re Continental delivery system, looping			
	3795-96	King	CAGPL		Gas composition, possible pipeline failure			
	3817-18	Gibbs			Steel mills, quality, delivery			
	3852	Holmberg			Metallurgical sub-committee			
	3869	Purcell		Gas pressure				
XXXI	3880-82	Apr.16		Gibbs		Gas pipeline destination south of the 60th parallel		
	3992		Anthony	CARC	Editorial comment			
XXXII	4025-28	Apr.18		Purcell		Supply lines volume in fifth year		
	4044-45				Placement of bands, bending of pipe			
	4060-62				Bulldozer accident - Trans Canada pipeline			
	4073-75A		Genest		Question of looping dealt with by Horte			
	4124-25		Reid	CAGPL	Test fluid - 25% methanol by weight			
	4185-86		Anthony		Response to corridor concept motion			
	4199-4201		Hollingworth	Foothills	Application for right-of-way by Foothills Gas			
	4219-25	Anthony		Response to corridor concept motion				

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XXXIII	4236-37 4246-47 4250 4252-57 4259-64 4268 4271 4273-79 4294 4302-03 4322 4329-30 4353-55 4367-68 4372-74	Apr. 21	YK	Dau O'Rourke Dau Williams Dau Williams Dau Genest	CAGPL CAGPL CAGPL CAGPL	Horte's letter, pipe laying begin winter '77 or '78 Add two years to dates of original application Construction camps moved in 1979 Canol film, use of Dempster Highway Choice in modes of transportation Channel improvement not required Fleet dedicated to pipeline Origin of pipe affects amount of barging equipment Availability of construction equipment Ditcher on packed snow Snow road presentation marked as exhibit Design panel cross examined re 40 ft pipe, also 60 & 80 feet Testing of ditching equipment Number of major river crossings north of 60° Order of cross examination, welding film
XXXIV	4417-18 4423-24 4431-32 4437-39 4452-53 4456-58 4462 4474-75 4479 4482 4487-89 4515 4517 4527	Apr. 22		Dau Dau Veale Veale Williams Veale Dau Veale Dau Veale Goudge O'Rourke Veale O'Rourke	CAGPL CYI MVPI CAGPL	Days work impossible: work stoppages due to labour disputes Scheduling Information on two spread camps Spread camp A, distance from Old Crow Size, Hercules aircraft Witnesses for environmental factors Authority for work stoppages Panel of environmentalists Regulations on movement of workers Comment on regulations on movement of workers Future cross examination by NWT AM and NWT CC Question re routes Cross examination by Veale on two spread camps CP, CN simulation of pipe shipment rates
XXXV	4555-57 4576-77 4586-90 4595-98 4611-14 4643-44 4645-46	Apr. 23		Dau Dau Dau O'Rourke Williams O'Rourke Genest	CAGPL CAGPL CAGPL	Construction camp movement, productivity of workers Upgrading of pressure welders to automatic welders Construction equipment owned or available Impact of pipe transportation on NWT economy Ditcher in continuous permafrost Additional barges to deliver pipe Inform Whitehorse groups to prepare for hearings
XXXVI	4680 4689-90 4691-93 4695-96 4699	May 12		Berger Lucas Berger Lucas Berger	CARC	Arrange to hear from Foothills re: motion to adjourn If adjourned, where will CARC be in two weeks? Motion being considered is adjournment not funding If inquiry proceeded, CARC could recall panel Will consider motion to adjourn
XXXVII	4703-04 4728 4748 4752-53	May 13		Lucas O'Rourke Genest Bayly	CAGPL	Funding of native groups and NAG Barging captains, experience Decision about cross delta route Corridors, routes
XXXVIII	4766-67 4770-72 4774-76 4800 4803 4808-09 4815			Bayly Williams Bayly O'Rourke O'Rourke O'Rourke Bayly	CAGPL	Provincial/federal jurisdiction over labour regulations Extraordinary working hours per month Collective agreements with trade unions Impact on east, west rail systems C.N.R. cars, needed for pipe transportation Airlines, railways, cheaper to carry freight than passengers; possible private planes to carry workers Special impact on YT, NWT
XXXVIII	4868 4877-86 4935	May 14		Lucas Williams Dau		Techniques used for river crossings, terms and conditions of obtaining ROW Exhibit #99, blasting along coastal route Design review, Bennett dam

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XXXVIII	4938-42	May 14	YK	Lucas	CARC	Horte, environmental stipulations
XXXIX	5039	May 15		Williams	CAGPL	Public use of wharf during construction period?
	5072-73			Williams		Intent to backfill, problem of siltation
	5085-86			Williams		Culverts - facilitate drainage in frost bulb
	5089-91			Dau		Number of culverts, frost bulb problem in Alaska
40	5199-5203	May 16		Fielder	CAGPL	Length, U.S.S.R. pipelines; gas destination
	5248			Hurd	CAGPL	Pipeline lifetime
41	5328-30	May 20		Hurd		Matters to be covered by Horte
	5337-49			Fielder		U.S.S.R. natural gas pipelines
	5357-58			Lucas		Snow geese staging areas, aircraft
	5360-63			Hurd		Flight altitudes, detecting line breaks
	5378-79			Lucas		Evidence on training programs, Phase 4
	5382-84			Carlson		Northern training programs, unions
42	5411-13	May 21		Fielder	CAGPL	U.S.S.R. gas reserves, fields, approx. 22 trillion cu m
	5444-51			Berger		Evidence regarding alternate routes; phases
	5470-71			Hurd		Inuvik, bulldozed fire breaks, erosion
	5549-52			Horte	CAGPL	Extent of reserves, economic feasibility, Mackenzie Delta
	5570-74			Horte Genest		Scheduling, two construction periods
43	5605-06	May 22		Horte		re Brackett's position in CAGPL
	5614-15			Horte		Regulatory approvals, commitments from companies
	5620-21			Horte		Canadian users of energy in the north
	5674-75			Gibbs Horte		Looping, likely impact of construction
	5678-79			Scott	MVPI	Likelihood of looping
	5708-09			Templeton	EPB	Pipeline guidelines
	5710-12			Horte		Authorities, construction of the pipeline
44	5720-21	May 23		Scott	MVPI	re Diagram on the disposition of equipment, materials, pipes-looping (to be prepared)
	5754-56			Scott Bell	NWT IB/MA	Organization of CAGPL, violation of legislative provisions for the protection of the environment
	5772-74			Horte	CAGPL	Gas service to northern communities
	5775					Gas Service, list of communities
	5779-81			Genest	CAGPL	Possible future questions about community service
	5812-17			Berger		Development of terms and conditions, recommendations
	5826-28			Horte		Companies in Gas Arctic Systems Group
	5875-80			Horte		Alternate routes
45	5899-5901	May 24		Bayly	COPE/ITC	Terms and conditions; community hearings
	5923-25			Horte		Looping crews needed
	5938			Genest	CAGPL	CAGPL undertaking, reports on cross-delta route change
	5945-48			Genest		Logistics, pipe origin and transportation; authority over entire project
	5956			Horte		Gas state, in solution
	5993			Horte		Approvals from regulatory bodies, construction schedule
46	6040	June 2		Templeton	EPB	Test proposition of building pipeline?
	6096-6101			Templeton		Consideration of second gas, and also oil, pipeline by EPB
47	6199-6200	June 3		McT-Cowan	EPB	Northern Yukon - interior and coastal routes
	6225-27			McT-Cowan		Caribou herds - impact of route, hunting
	6258-63			Gourdeau	EPB	James Bay - employment and land claims
	6275-80			Templeton		Horte evidence re: regulatory authority
	6294-95			Templeton		Setting up training program
48	6366-72	June 4		Craik	EPB	Jurisdiction of agency, NEB as agency
	6414-15			Wilimovsky	EPB	Seismic experience, underwater explosives - fish
49	6452-53	June 5		Horte		Visit to Old Crow and Alaska
	6482-84			Horte		Fair allocation method, capital costs, cost of service

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49	6491-94	June 5	YK	Horte	CAGPL	Are Northern Consumers subsidizing the U.S.?
	6498-99			Horte		Total cost of service attributable to capital cost
	6505-06			Horte		Zone gate method, cost of service method
	6563-67			Anthony	CARC	Highway on east side of river before pipeline
	6608-09			Horte		Penticton line break, shut off gas
50	6671	June 6		Horte		Looping, cubic feet/day
	6686			Horte		Route south of Old Crow considered?
	6723-25			Horte		No need for second opinion re: design
C-I	1-3	Apr. 2	Aklavik	Berger		Opening statement, Aklavik community hearing
	32			Carter	CAGPL	Routing of the pipeline
	41-43			Berger		Attempts of Territorial Government to place conditions on its employees testifying at the hearings
	46			Paul	Citizen	Location of routes of the pipeline
C-II	106-107	Apr. 3		Berger		Visit to home of Donald Greenland
	147-48			Berger		Public Inquiry; hearings to be held in Community Hall
C-III	149-50	Apr. 4		Berger		Aklavik, first community hearing
	162-63			Berger		Purpose of the Inquiry
C-4	177-179	May 28	Hay River	Berger		Formal, community hearings
	187-190			Phillip	Citizen	Position of Foothills at hearings; general outline of pipeline project
	195-197			Berger		Foothills application to build pipeline
	208-209			Stewart	Citizen	Cost of energy provision to northern communities
	216-218			Williams	CAGPL	Double jointing, shipping through Hay River
	219-220			Maydonick	NWT CC	Barge construction, size of fleet
	224-226			Neufeld	Citizen	Barge construction in 1974 in Hay River
	232-236			Van Weelderden	Citizen	Assembling barges and tugs in Hay River
	264			Stewart	Citizen	Impact on commercial fishing industry
	282-286			S. Dean	Citizen	A.V.T.C., training institute, Fort Smith
	298-300			Norin	Citizen	Number of Fishermen
	302-304			Berger		Purpose of Inquiry; Formal hearings
	310-312			Berger		Wages of fishermen, pipeline workers
	324-326			Williams		People employed in O-M phase
C-5	337-346	May 29		Berger		Re: apprenticeship program, Hay River area
	384-386			Berger		Re: bonding; systems in Saskatchewan and Alberta
	397-408			Berger		Labour force at Correctional Centre, Hay River
	418-421			Berger		Provisions in the pipeline guidelines
	424-427			Berger		Capacity of correctional centre; age, educational level etc. of inmates
	430-431			Workman	CAGPL	Community hearings; visit to Hay River Indian Village
	442-455			Vail	Citizen	Re size of CAGPL project
	458-459			Ferguson	Citizen	Cost of the project; shares, capital, etc.
	463-469			Burrell	Foothills	Cost of natural gas, Hay River
C-6	478-479	May 30	Hay River	Berger		Hay River Indian Village, purpose of hearings
	505-506			Sayle	Citizen	Re Pine Point : community and mine
	528-530			Sayle		Re two pipeline companies, CAGPL and Foothills
	546-547			Martel	Citizen	Re translation at Hay River Indian Village
	568-573			Sabourine	Citizen	Pipeline routes, benefit to the natives
C-7	597-599	June 24	F.F.	Berger		Purpose of the Inquiry; community hearings
C-8	720-21	June 25		Tatti	Citizen	Purpose of the hearing; CAGPL, Foothills representatives
	735			Berger		Application for land use permit by Masette Petroleum

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C-8	747-48 772	June 25	F.F.	G.Kodakin Berger	Citizen	Gemini North Report Hearings on June 26, 1975
C-9	833-34	June 26		Berger		Hearing at Brackett Lake
C-10	835-6 869-70 871 882-83 922-23 958-60 981-2		W.L.	Berger Berger Berger		Purpose of the hearings at Willow Lake; report of the Inquiry, terms and conditions Remarks at end of Willow Lake hearing Opening remarks, hearings at Fort Norman Translation, record of hearings; representatives of Foothills and CAGPL present at hearings
				M.Mendo Berger	Citizen	Students' opinions Re: pipeline training program of Mannix Company
C-11	984-9	July 8	F.McP.	P.Andrews Berger	Citizen	Permanent record of hearings Purpose of the Inquiry; community hearings
C-12	1125-6 1143-8 1147-8	July 9		Berger Workman Berger	CAGPL	Translation of submissions Northerner training program; native involvement Hearings to be held next day, July 9
C-13	1197-9 1202-3 1208 1268-9	July 10		Berger Berger Berger Berger		Looping Pipeline Companies, different routes Reliance on caribou, fish Translation, permanent record
C-14	1270-71 1348-9	July 11	O.C.	Berger P.Nukon	Citizen	Purpose of the Inquiry Fire fighting
C-15	1400-01	July 12		Rowe	CAGPL	John Russell, employment by Renewable Resources
C-15	1461-66 1474-6	July 12		Irving Irving	Citizen	Caribou fences Caribou fences
C-16	1490-1501 1524-25 1573 1623-4 1648 1654-7	July 13		Rowe Benjamin H.Richter B.Sharpe P.Lord	CAGPL Citizen	Gas flow after pipeline break, possible break Question re increase of work for R.C.M.P.
		July 13		J.J.Kaye	Citizen	Study on the effects of darkness Questions raised by B.Sharpe Evidence on impact of aircraft on caribou to be referred to Commission Counsel Public Inquiry; report, recommendations
C-17	1658-60 1681-2 1711-14 1715 1723 1764	July 16	F.L.	Berger Berger Berger Berger		Opening remarks; purpose of the Inquiry Questions to Painted Mountain Pipeline, Amoco Re Native people's enjoyment of the bush Visit to Amoco gas plant
		July 17		E.Dean Berger	Citizen	Re sand hill to be repaired Hearings to be in Trout Lake and Nahanni Butte
56	7800-04 7825 7833-34 7858-60 7875-77 7931-32 7941	Aug. 18	YK	Berger Berger Horte Horte Horte Gibbs Scott		Recounting travels to communities and test sites since end of formal hearings; meeting with principal representatives of Government and Regulatory agencies, the industries and Native Organizations in Alaska Clarification as to source of gas Cost of gas to the U.S. consumer Working hours in construction camps, overtime Scheduling of Alyeska; gas re-injection; gas reviews Future available space capacity with AGTL system; present upgrading of ACTL facilities
					MVPI	Cost of gas to the northern and southern gas consumer re: community supply laterals
58	8203-04 8207-11	Aug. 20	YK	Blair Berger	Foothills	Comments on gas finds Details on finishing Phase 1 and beginning of Phase 2.

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57	8005-6	Aug.19	YK	Gibbs	Foothills	referral to direction set out by the Minister re: Foothills submissions
	8014-16			Goldie	CAGPL	comments on Blair's concept of differing ideas of 'Canadian interest'
	8026-28			Gibbs		clarification as to Blair's need to answer questions which might break the confidentiality of management meetings
	8049-52			Blair	Foothills	questions as to the gas plant and gathering operations in Alberta; Amco at Fort Liard operations to Westcoast gathering system
	8062-64			Blair		Financial arrangements made by Foothills; possibility of Governmental intervention in the area of bonds and investment; feasibility studies
	8091-3			Blair		Pipeline looping; costs; looping of Trans Canada; Canadian gas usage
58	8125	Aug.20		Blair		Clarification as to looping procedures and pipeline construction; scheduling
	8136-7			Goldie		Questions as to alternative route proposals which might provide cost savings to the consumer and other parties
	8167-8			Berger		Alyeska experience re: alcohol use, firearms, youth problems, high wages, personal rights
	8225-7			Blair		Pipeline as a source of revenue; royalties to governments
	8228-30			Blair		Economic development after a pipeline is established; location of petro-chemical industry with respect to pipeline location and development; Alberta experience
	8240-41			Blair		Foothills intention of building pipeline from Banks & Victoria Is; communities of Sachs Harbour, Holman Is. Paulatuk; exploration and seismic work
	8190-4			Marshall	CAGPL	Areas of gas research, reserves, Arctic Is; prospective pipe link up with Arctic Islands reserves
58	8211-14	Aug.20		Bell	NWT IB/MA	Details as to future community hearings in November at Fort Rae, Fort Providence, Inuvik, Yellowknife Detah
	8285-88			Berger		Sale of shares re:Foothills financing, government restrictions as to sale of shares
59	8300	Aug.21		Gibbs		Procedural matters re:asking of leading questions
	8317-18			Berger		Procedural; relevance of testimony - community/formal
	8320-21			Gibbs		Procedural; authority of Parliament
	8324-7			Berger		Canada's gas requirements, capacity of N.E.B. CAGPL gas build-up, gas companies submission to N.E.B.; final report
	8397-8			Marshall		Use of technical opinion and nationalistic flavouring; Foothills route change; environmental impact
	8424-5			Berger		Disclosure of reports and studies used by panels; individual and panel report and study usage
60	8482-4	Aug.22		Berger		Re-introduction by Foothills of evidence on Canadian need for natural gas
	8574			Bouckhout	Foothills	Environmental assessment of mainline route
	8576-77			Mirosh	Foothills	New area of impact to be studied, community supply laterals; field work yet to be undertaken
	8579-81			Mirosh		Building of community supply laterals; previous experience
	8585			Scott	MVPI	Hart Lake, International Biological Programme site
	8591-4			Berger		Foothills evidence, adjournment of hearings

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	6761-63			Berger		Introduction of lawyers and participants
	6783-84			Berger		Eagle Plain area, proximity to Old Crow, oil and gas reserves
	6800-02			Berger		Costs; recent figures for mainline route; base dollars of the cost estimates
	6820-23			Berger		Reserve areas, potential hydro-carbon areas, Peel Plain, Arctic slope province, naval petroleum reserve, looping
	6826			Berger		Capital cost estimate of the prime route
	6831-33			Berger		Procedural matters; build-up time to capacity
	6840-41			Berger		Route mileage, cost to the consumer
	6845			Berger		Access on Fairbanks, Fort Yukon corridors
	6878-81			Berger		Two pipelines in the same corridor; multiplied effects
52	6893	Aug. 12		Banfield	CAGPL	Relationship of Mackenzie Highway to pipeline
	6908-12			Hemstock	CAGPL	CAGPL to present impact of an oil pipeline re Whitehorse community hearings
	6924-25			Berger		Request for Horte to discuss potential of U.S. Naval Petroleum Reserve #4
	6929-32			Banfield		Impacts of established and future corridors on caribou
	6955-56			Anthony	CARC	Questioning of pursuit of gov't - CAGPL discussions
	6964-65			Gibbs	Foothills	Pipeline guidelines demand cost comparisons of routes by proponents
	7002-04			Banfield		Notion of quantifying value of caribou herds
	7008-09			Banfield		Stability of the Arctic ecosystem
	7021			Berger		Introduction of participants to Whitehorse community
	7054	Aug. 12	WH	Banfield	CAGPL	Future debate with Dr. Calef re caribou migration patterns
53	7057-59	Aug. 13		Berger		Necessity for CAGPL to outline segmented costs of alternate systems
	7074			Berger		Sole responsibility of judging community evidence
	7076-77			Trusty	CAGPL	Experience as economist in underdeveloped countries
	7080			Dau	CAGPL	Feasibility of offshore route
	7092			Hemstock	CAGPL	Environmental impact of gas plants on sea or land
	7111			Hemstock		Aesthetics; aerial view of pipeline
	7123-26			Trusty	CAGPL	Impact of "boom or bust" on economy; inflation
	7129-30			Trusty		Impacts of development on cultures & society - Maritimes
	7132			Trusty		Comparison with Alyeska experience with Regulatory Agencies
	7139			Trusty		Responsibility of inquiry
	7146-51			Hemstock	CAGPL	Reserve potentials at Banks Island, Mackenzie - Beaufort Basin, & Eagle Plain Basin
	7171-75			Berger		Instructions to counsel re future panels on alternate corridors (CAGPL, Foothills)
	7192-93			Berger		Commission Counsel to obtain George Miller report on social impact, Ross River
	7245-46			Berger		Scheduling of panels & evidence
	7259-60			Berger		Scheduling of panels & evidence
	7277			Thompson	CARC	D. Hunt definition of Arctic Wildlife Range
5 JA	7284 B)			Berger		Explanation of CARC panel to Whitehorse residents
	7305	Aug. 13		Leonard	CARC	Clarification re route preference
	7311			Leonard		Importance of unglaciated area, Wildlife Range
	7328			Leonard		Preference for Fairbanks route

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54	7397-7402	Aug.14		Berger		Procedural; appearance of witnesses
	7438-48			Berger		Questions directed to Banfield; caribou herds and size
	7492-93			Berger		Slope instability; permafrost degradation; repair; Fort Yukon corridor
	7552-55			Berger		Procedural; cross-examination and appearance of witnesses
	7572-74			Berger		Alternative corridors; Fairbanks route; Alyeska Line; El Paso
	7579-88			Berger		Environmental impact statement re: El Paso route selection and location; social and economic drawbacks and advantages; Trans-Alaska oil pipeline
55	7589-92	Aug.15		Berger		Procedural; re-appearance of witnesses
	7646-47			Berger		Procedural
	7655-57			Berger		Rebuttal of evidence
	7658-67			Berger		Evidence before the Inquiry; procedural matters
C-18	1766-68 1798-1800	Aug. 5	FGH	Berger		Opening remarks; purposes of the inquiry direction to IBNWT & proponents to explain maps - Fort Good Hope
	1818-19			Berger		Oil pipeline within scope of inquiry
	1825			Berger		Direction to commission counsel to pursue methods to be used at Hare Indian River crossing
	1827-29			Berger		Request for gravel sites at Fort Good Hope to be marked on maps by proponents
C-19	1835 1854-59	Aug. 6		Berger		Visit to Ramparts & fish camp informative Acreage required for wharves & stockpile sites
	1871-72			Berger		Request for settlement map showing stockpile sites at Fort Good Hope
	1907-08			Berger		Schedule of Colville Lake, Norman Wells & Whitehorse hearings
C-20	1911-15	Aug. 7		Rowe	CAGPL	Question of CAGPL wharf & stockpile drilling sites at Fort Good Hope
	1930			G. Scott	Citizen	Asks nature of witness's work in Fort Good Hope
	1955-57			Berger		Translation of the hearings into Slavey
	1974-76			A. Tobac	Citizen	Request for photographs showing land use
	2029			E. Kakfwı	Citizen	Garbage & sewage disposal - seismic camps
	2050-51			T. Kakfwı	Citizen	Explosives in seismic work
	2073-75			Berger		Gratitude to people of Fort Good Hope - Schedule
C-21	2076-78	Aug.9	NW	Berger		Purpose of the community hearing
	2082-90			Berger		Directions to Arctic Gas & Foothills to outline land use & operations Norman Wells
	2108-09			Berger		Encouragement to residents to speak
	2110-22			Blair Carter	Foothills CAGPL	Reserve estimates; project cost
	2144-45			C. Ross	Citizen	Oil claim 1914 Imperial Oil
	2149-51			R. Laycock	Citizen	Guidelines include study of oil pipeline
	2157-58			G. Loomis	Citizen	Land shortage in Norman Wells
	2164-66			G. Loomis		Encouragement to residents to speak
	2182			Rowe Blair	CAGPL Foothills	Employment opportunities for northerners
	2190-92			R. Sinotte	Citizen	Imperial Oil policy re local industry
	2215-18			Berger		Adjournment - Norman Wells
C-22	2219-95	Aug.11	WH	Berger		Scope of the inquiry; application to Yukon concerns
	2224-26			Berger		Comments made only in recommendations re threats of vandalism
	2231			Berger		Invitation for residents to speak

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	2251-53			T. Nairn	Citizen	Fire & Building regulations, construction camps
	2255-56			Berger		Hearing adjourned until next day
	2257-58			Berger		Alternative corridors
	2260-70			Berger		Brief from Yukon Transport Association Gas to communities
	2276-80			Berger		Funding to Assoc. of Municipalities to study feasibility of gas to communities
	2280-82			R. McRobe	Citizen	Funding of Yukon gas supply
	2283-84			Berger		Resumes hearing; recalls panel
	2288-89			A. Netherton	Citizen	Study of social costs of past development in Whitehorse
	2293-95			D. Posiwasccheck	CARC	Witnesses evidence re Alaska
C-23	2298-2301	Aug.14		A. Cabret	Citizen	Apologies re cramming of the hearing.
	2318-23			A. Fekete	Citizen	Guidelines re oil pipeline proposal
	2329-32			Berger		Explanation of alternate route proposals
	2336-38			R. McCandless	Citizen	Recoverable potential of Eagle Plain field
	2341-42			Berger		Introduction of participants
	2357-62			Berger		Outline of nature of inquiry; participants
	2368-71			Berger		Community hearings at Old Crow; role of the inquiry
	2381-82			Berger		Encouragement to citizens to submit briefs
	2390			Berger		Closing remarks, Whitehorse Community hearings
61	8597-98	Sept.15	YK	Berger		Procedural matters; presentation of United Steel Workers' brief
	8608-14			Berger		Asking U.S.W.A. to supply facts and figures used in their evidence; question about plate mills.
	8680			Berger		Clarification as roughness of plastic lined pipe
61 A	8754	Sept.15		Berger		Test site in the University of Calgary to simulate frost heave conditions
	8756-61			Berger		Pipe failure; single pipes at river crossings versus dual pipes; gas supply; ice scour depth; pipe burial depths
62	8774	Sept.16		Berger		Capital cost saving attained by elimination of intermediate block valves
	8776a-d			Berger		Consultants reports; internal memorandum
	8798-8808			Berger Gibbs Marshall	Foothills CAGPL	Releasing and submission of studies; river crossings; Foothills intentions re: delivery of Alaskan gas; submission to N.E.D.; interest in the Delta
	8827-28			Berger		Right -of-way; legal right of the gas company
	8911-14			Berger		Launching of satellite space; launch vehicles; costs; communications satellite Anik
	8917			Berger		International confrontation over satellite usage; Alyeska; U.S. communication satellites
	8928-34			Berger		Channel requirements of CAGPL and Foothills; use of existing telephone, radio, and television circuits in the north
63	8972-73			Berger		Refrigeration units on compressor stations
	8986-87			Berger		Pipeline chilling, temperature
	8995			Berger		Advantages of gas turbines over reciprocating engines and electric motors
	9002			Berger		Workmans compensation standards re compressor station noise
	9012-13			Marshall		Acreage required by Arctic gas for compressor sites
	9016-19	Sept.17		Marshall		Foothills scheduling of pipeline & compressor station construction
	9042			Bayly	COPE/ITC	Definition of an anerobic pond
	9071-82			Berger		Evidence related to Cross - Delta route, gas plants & gathering lines to be heard at Inuvik hearings in Jan. 1976
	9091			Scott	MVPI	Jackson to meet Inuvik officials re: January hearings
	9117-18			Hushion	Foothills	Capability of Stelco's Welland Mill to produce 48" pipe

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	9126-27			Wetterberg		Steel industry supply guarantees to Foothills; logistics	
	9135			Shelton	Foothills	Tables on ruptures & leaks encompass gas distribution systems within large cities	
	9160-61			Hushion	Foothills	El Paso decision to use 42" pipe with crack arrestors	
64	9245	Sept.18		Holtzbaum	Foothill	Power consumption involved in cathodic protection	
	9301-02		Spafford	Foothills	Naylor's crossing-location described near Fort Liard junction		
	9347-49		Mirosh	Foothills	Delivery of gas from Banks Island & Victoria Island through Foothills line; mode of delivery		
	9359		Marshall	CAGPL	Scheduling of hearings		
	9382-92		Hollingworth	Foothills	Foothills to produce the recommendations re route revisions by Claridge; to present decision about those recommendations		
	9398-99		Mirosh		No site - specific frost heave studies done by Foothills		
65	9490	Sept.19		Spafford		Plans of Foothills not yet advanced enough for witness to assure safety of line	
	9492-93		Davison		Reason for relocation of hydro dam at Snare River		
	9506-09		Mirosh		Asks if Foothills would hire CAGPL consultants if granted the permit		
	9534		Mirosh		Supply lines to Rae, Pine Point, Providence, Yellowknife, & Hay River not chilled		
	9592-94		Berger		Community hearings - South Slave area CAGPL & Foothills to give scheduling figures		
	9597-98		Mirosh		Miles per spread; CAGPL schedule		
	9632		Jarvis	Foothills	Snow road duration on north end of line		
	9646		Berger		Adjournment		
66	9651-52		Sept.22		Kosten	Foothills	Pipe laying commencement
	9654			Kosten		Time when pipe stockpiled & moved to work site	
	9680			Bauer		Clearing of permafrost zones in advance of construction; Shoofly roads; exposure of permafrost	
	9691	Berger			Mackenzie Highway on diagram showing borrow requirements		
	9695-96	Bauer			Gravel roads - side trails; gravel requirements for slope fill		
	9706-07	Berger			Accumulation of snow could be faultily gauged		
	9713	Jarvis		Foothills	Length of haul duration		
	9718	Kosten			Dangers of construction in darkness		
	9725-28	Kosten			90 day working season in Inuvik		
	9733-37	Genest		CAGPL	Commencement of construction by CAGPL; request for Alyeska winter work schedule		
	9738-39	Jarvis			October temperatures; unsuitability of snow roads in October; ground freezing necessary		
	9742	Jarvis			Witness not familiar with CAGPL evidence re snow roads		
	9763	Kosten			Blasting in soil & rock		
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	9915-16		Mirosh	Foothills	Productivity of spreads; comparison of Foothills & CAGPL estimates		
	9925-26		Mirosh		Spread responsible for Parsons Lake - Taglu lateral and mainline		
	9928-29		Mirosh		Spread one crew not capable of both 44 miles of mainline and Parsons Lake lateral		
	9990-91		Mirosh		Wrigley - completion of highway in 1979		
	9999-04		Berger		Schedule of hearings		
	10028		Jarvis	Foothills	Schedule of hauling on snow roads in Inuvik area		
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	10085			Scott	MVPI	Distance in miles involved in the coastal and interior routes
	10101-02			Hushion		Company paying for construction of Mackenzie Highway
	10124-27			Mirosh		Tankers to transport oil to Tuk; number of trips; shipping season
	10129-30			Goudge	MVPI	Request for staff to investigate tanker transport of fuel to Tuk
	10132-33			Dau	CAGPL	Clarification of manpower - spread schedule
	10158			Williams	CAGPL	Length of winter season in Alberta
	10166-67			Berger		Shutdowns of construction for reasons other than climate; strikes, labour relations
	10176			Genest	CAGPL	Breakdown up-to-date of costs of alternative and prime routes
	10181-82			Genest		Correspondence of contractors' and NES estimates re: spread productivity
	10187			Templeton	FPB	Scope of answers can encompass all phases
	10202-05			Templeton		Monitoring of Alaska pipeline
	10212			Templeton		Federal - provincial jurisdiction
	10216-17			Templeton		Archaeologist Morlan re: damage by one cut of bulldozer
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	10227			Templeton		Drafting of specific recommendations and codes
69	10232	Sept.25		Berger		Writing of terms and conditions of Phase 1
	10245			Berger		Frost heave questions
	10256-58			Berger		Evidence heard in May from CAGPL re: frost heave, shut-off pressure
	10261-64			Berger		River crossings; frost heave; shut-off pressure re: berm weight versus river water weight; design proposals
	10290			Berger		Flexibility and rigidity of pipe; strength of pipe; accommodation of heave
	10312-A-13			Berger		Calgary test site; frost heave
	10317-19			Berger		Water in frozen ground; susceptibility to frost heave
	10351-53			Berger		Williams' summary of Arctic Gas approach re: frost heave, hydraulic conductivity; contained water
69	10356-60	Sept.25		Berger		River crossings, Mackenzie River south of Fort Simpson; susceptibility to frost heave; berm size and pipe burial depths re: high shut off pressures; solution to frost heave and high shut off pressures
	10364			Berger		Measurement of frost heave; geological time scale
	10372-75			Berger		Norwegian Geotechnical Institute; research in foreign countries re: frost heave; Scott Polar Institute
	10395			Berger		Equipment types; light vehicle traffic
	10470			Berger		Pipeline route from Beaver River to Fort Nelson
	10476-77			Berger		River weights versus saddle weights
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	10595-96			Berger		Return of witnesses; schedule of the hearings; formal and community hearings in Inuvik, Tuktoyaktuk, Aklavik, Arctic Red River, Sachs Harbour, Holman Island
71	10603-04	Oct.14		Berger		Use of snow roads
	10620-24			Berger		Land use applications re: community interest in construction activities; bonding and security deposits; pipeline guidelines; acreage involved

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	10651-52			Berger		Number of permits issued since the land use regulations have been in force; number of prosecutions
	10688			Berger		Procedural
72	10690-91	Oct. 15		Berger		Procedural; appearance of witnesses
	10732-35			Berger		Comparing Dr. Clark's and Dr. Williams' testimonies re frost heave, chilled pipelines, permafrost
	10741-46			Berger		Dr. Clark's; Dr. Williams' testimonies re frost heave, permafrost and chilled pipelines; river crossings; berm size; questions to Dr. Clark
	10758			Berger		Rules of evidence
	10765-66			Berger		Foothills intent to bring in oil for construction of the pipeline to Tuktoyaktuk by tanker around the Bering Strait; Babbage River
	10777-88			Berger		Questions to K. Adam re frostheave; Dr. Clark's and Dr. Williams' testimonies
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	10832-33			Berger		Engineering implications of frost heave; shutting off of pipeline coolers
	10852-54			Berger		Shut off pressures; expansion of water in situ; frost bulb; ice lensing; temperature and freezing point; prediction of amount of heave; in situ water expanding versus the lensing water
	10861			Berger		Thermodynamic equation; temperatures and pressures
	10865-71			Berger		Shut off pressure; suction force; temperature; redistribution of ice lenses; frost bulb; expansion; soil type
	10878			Berger		Suction and pulling forces re frost heave; temperature; permeability of ground
	10896			Berger		Opinions of other researchers re frost heave
	10917-20			Berger		Frost bulb re Dr. Williams' testimony; temperature of chilled pipe; terrain conditions; buried or elevated pipeline; failure
	10931			Berger		Method to predict frost heave
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	10969			Berger		Yellowknife Community hearing; procedural
74	10997-99	Oct. 17		Berger		Snow roads, use and time of usage; facilities along snow roads
	11002			Berger		Cost increases re Alyeska, installation of vertical support members
	11004-06			Berger		Alyeska; construction accidents; injury to workers
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	11045-48			Berger		Weedon and Parker's position; State of Alaska policy and position on Alyeska and El Paso
	11071-72			Berger		Impact of major development within the Marsh Fork area on the Porcupine caribou herd; Prudhoe Bay gathering lines and caribou migrations
	11076-77			Berger		Land use planning in Alaska; impact of a pipeline on a previously untouched region; energy corridors; naval Petroleum Reserve No. 4
	11082			Berger		Construction of pipeline through continuous and non-continuous permafrost areas; frost heave
	11102			Berger		Effect of siltation; frozen to river bed
	11127			Berger		Whitehorse hearings re: Mr. Collins', Mr. Leonard's debate, choice of route
	11137			Berger		Impact of a pipeline on a wilderness area analogy
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	11199-11201			Berger		Fort Yukon corridor; effect of Steese Highway on the Steese 40 mile Caribou Herd
	11206-10			Berger		Projected cost of the Alyeska Pipeline; changes in cost due to inflation - national and local; elevated pipe
	11214			Berger		Continuation of discussion re Alaskan Native Lands Claims Settlement
	11216			Berger		Status of lands prior to State Land
	11221			Berger		Winter road construction; Alaskan road development
	11224			Berger		Alaskan Native Claims Settlement
	11233-36			Berger		Number of construction workers; native workers; problem re employment of natives on Alyeska project
	11240			Berger		Origin of skilled pipeline workers
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	11263-64			Berger		Concept of a Wilderness area
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	11303			Berger		Areas of continuous and discontinuous permafrost
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	11334-38			Berger		Termination point of chilling; procedural
77	11355-57	Oct. 22		Berger		Route east of the Franklins, how far east; drumlinoid ridges
	11370-78			Berger		Filing application before NEB, and DIAND; alternate route, route proposals; east of the Franklins; Mackenzie River as a transportation artery; pipeline guidelines; concept of Mackenzie corridor; alternatives outside the corridor
	11384-86			Berger		Permafrost; east of Franklins route near Blackwater River
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	11426-27			Berger		East of the Franklins route; proximity to Fort Good Hope
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	11466-70			Berger		Edge of the shield route; location of route
	11488			Berger		Community hearing at Latham Island, October 22
78	11491	Oct. 23		Berger		Examples of buried pipe under large water bodies
	11501-02			Berger		Polar Gas Y pipeline; route and location of proven and potential reserves
	11508			Berger		Length of fluted moraines
	11524-26			Berger		Presentation of Roed's environmental assessment not under question at this time
	11553			Berger		Point of river rising, riverbed size; fluted moraines
	11555-56			Berger		Scheduling; procedural
	11574			Berger		Mines at Echo Bay, Terra Mines
	11597-609			Berger		Alternate routes and alternate corridors; Foothills' obligations re: expanded guidelines; Fairbanks, Fort Yukon corridors, recommendations; project costs
79	11683	Nov. 3		Minning	CAGPI	Borrow requirements for prime route - Infrastructure and trench
	11688-92			Minning		Borrow removal from active flood plains
	11695-97			Minning		Stockpiling of gravel in windrows before freezing
	11699-11700			Minning		Length of eskers
	11707-09			McCart	CAGPL	Use of berm to prevent siltation at borrow sites
	11756-58			Minning		Borrow requirements; esker; esker composition; removal from river channels

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80	11790	Nov. 4	YK	Dabbs	CAGPL	Seed mixes satisfactory to CAGPL revegetation plan
	11820			Clark	CAGPL	Methods of avoiding thaw settlement; cost of pile supports
	11824-25			Clark		Use of piles to support line in ground; Alyeska elevated line; methods of gauging slope movement and failure
	11835-39			Marshall	CAGPL	Decision to require CAGPL to provide list of rerouting considerations and recommendations of environmental consultants
	11858-59			Hemstock	CAGPL	Economic and access consideration in choice of prime route
	11860-62			Hemstock	CAGPL	Role of environmentalists in Fort Simpson route change
	11886			Williams	CAGPL	Route changes under consideration
	11906			Minning	CAGPL	Use of only flood plains along Arctic coastal rivers
	11923-24			Clark	CAGPL	Cost of supporting pipeline on piles in ground
	11953-54			Dabbs	CAGPL	Advantages of agronomic species
81	12017-18	Nov. 5		Hemstock		Indirect acreage requirements not included in pipeline estimates
	12074-77			Dabbs		Organic material on flood plains
	12105-06			Williams		Use of springs as water source
82	12156-62	Nov. 6		Veale	CYI	Uncertain as to depth necessary in study of alternative corridors
	12165-66			Minning		Sources of borrow should be compiled for Canadian route
	12209-11			Marshall	CAGPL	Witnesses, like EPB, not "hired guns" - can give personal opinion re project
	12217-18			McCart	CAGPL	Use of the term "environmentalist"
	12233			Scott	CAGPL	Questions re non-pipeline use of right-of-way
	12238-44			Marshall		Appropriateness of Scott questioning re consequences of pipeline failure and priority of impact
	12253-54			Hemstock		Visit to Trans Canada line and seismic crew; accidents at sites
	12267			Harlan	CAGPL	Witness to express concerns 10 years after pipeline built
	12286			Hemstock	CAGPL	Thawing of frost bulb after abandonment
	12329-30			Berger		Schedule of Fort Smith hearing
83	12345	Nov. 7		Dabbs	CAGPL	Failure of tundra mat removal tests at Tuktoyaktuk
	12352			Scott	MVPI	Borrow sites as recreation areas
	12356			Minning	CAGPL	Rejection of better borrow material for environmental reasons
	12383-84					Scheduling of hearings for Jan; Feb. and March
	12480			McCart	CAGPL	DOE riverbed gravel mining guidelines
	12487-91			McCart Hemstock		River silt bed load, fish eggs; regulations and enforcement, gravel mining North Slope
	12507			Minning		Borrow quantities, active flood plains
	12518-22			Berger		Evidence on corridor concept; pipeline guidelines
84	12605	Nov. 8		McCart		Water supply, North Slope
	12609-16					Hearings schedules; Banfield's evidence methods
85	12643-47	Nov. 12		Harlan		Alternate construction techniques, river crossings, North Slope
	12670-71			Bayly	COPE/ITC	EPB's concern, gravel mining, North Slope rivers
	12679			Bayly		Previous cross - examination by Anthony, Methanol storage
	12689			Berger		Fort Smith hearings; formal hearings

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85	12698-708	Nov.12	YK	Bayly Marshall	COPE/ITC CAGPL	Marshall objects to Bayly question, hydro-electric power; Great Bear dam, corridor concept, impact, Fort Franklin rejects idea
85-A	12740	Nov.12		Berger		Hope to finish Foothills physical impact panel by Nov.14
	12765-67			McCart	CAGPL	North Slope, Alaska, water shortage
	12770			McCart		Alyeska water source, Franklin Bluffs
	12782-84			McCart		Salmon population, B.C. Fraser River
	12792			Scott	MVPI	Information on nitrogen dioxide levels
	12800-01			Berger		Scheduling, panel witnesses
86	12803	Nov.13		Scott		River crossings
	12848			Claridge	Foothills	Drainage and erosion control, Alyeska Pipeline
	12854			Vaartnou	Foothills	Agronomic plants
	12889			Reeves	Foothills	Fort Alexander, when established
	12972-73			Lawrence	Foothills	Sewage equipment, camps, maintenance
	13006-08			Williams	CAGPL	Working days, production rate, Inuvik area
	13013-14			Williams		Practicality of artificial lighting, winter construction
	13028-35			Williams		Artificial lights, use per day, winter construction; Canol pipeline; different opinions, CAGPL, Foothills; minimum working temperatures
	13055-58			Berger		Parsons's Lake lateral; technology relied on for artificial lighting to work in north; costs; gas supply predictions
87	13081-83	Nov.14		Reeves	Foothills	Archaeological discoveries during clearing, ditching; recovery
	13087			Reeves		Consultation with native people, secret burial grounds
	13092-94			Reeves		Archaeological importance, Mackenzie Valley versus unglaciated areas of Yukon; Klokut area
	13105-06			Taylor	Foothills	Wilderness as part of Canadian identity
	13111-14			Taylor		Aesthetics, consultation with local people, native and southern attitudes
	13196-98			Scott Marshall	MVPI CAGPL	Panel scheduling
88	13207-08	Nov.17		Ryder Bouckhout	MVPI Foothills	Differences, CAGPL and Foothills environment preservation measures
	13273-77			Berger		Request from Chamber of Commerce to build pipeline in four years; Inquiry Tasks
	13286-87			Reeves Ryder		Archaeological monitoring during construction
	13327-28			Vaartnou	Foothills	Revegetation, imported versus local species
	13339-43			Gibbs Marshall Goudge	Foothills CAGPL MVPI	Environmentalists' debate, Porcupine herd evidence; cross-examination of Dau; CAGPL aircraft movements at spreads, report
88-A	13394-97	Nov.17		Berger		Mackenzie highway, oil pipeline, gas line looping, impacts
89	13412-14	Nov.18		Gunn	CAGPL	Meaning of "marginally significant"
	13432-36			Gunn	CAGPL	Beaufort Sea coast boundaries; preference for interior over coastal route; opinion of coastal and cross-delta routes; aircraft overflights; future developments
	13491-92			Jakimchuk	CAGPL	Jakimchuk's paper to McTaggart-Cowan; interference of caribou migration; interior route impact, other mammals
	13556-57			Dabbs	CAGPL	Displacement of native grasses by introduced species
90	13617	Nov.19		Dabbs		Effects on vegetation, toxic liquid spill
	13629-31			Marshall	CAGPL	Aerial seeding, height of bucket above ground, timing
	13638-40					Impact of other developments in corridor; pipeline guidelines

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90	13648-53	Nov. 19	YK	Hemstock	CAGPL	Guidelines require impact assessment of other corridor projects, e.g. gravel borrow
	13663-65			Berger		Pipeline guidelines re: corridor concept
	13686			Bayly	COPE/ITC	May use examples in cross-examination
	13690-92			Goudge	MVPI	Producers will give evidence in Inuvik, Bayly can ask questions re: timber use then
	13765			Marshall		Counsel approaching panel members outside hearings to clarify points, etc.
91	13782-96	Nov. 20		McCart Anthony Ryder Bayly	CAGPL CARC MVPI	Fairbanks corridor; cross-delta route to be considered in Inuvik; impact information, cross-delta route, prior to selection; assessment of cross-delta route to present
	13808	Nov. 20		Anthony	CARC	CAGPL guidelines re: fish in Biological Report Series
	13822-23			Hemstock	CAGPL	Alyeska environmental inspectors, powers
	13830			McCart	CAGPL	River crossings north of 60, CAGPL design guidelines
	13864-65			Hemstock		Winter construction, Canol pipeline
	13877-78			Marshall	CAGPL	Cost of gas comparison, Fairbanks route versus prime route
	13905-06			McCart		Compensation for domestic fisheries damage
	13911-12			Bell	NWTIB/MA	Compensation for damage to domestic fisheries
	13952-55			McCart		Obtaining government documents re: impact of Dempster highway
92	13962-63	Nov. 21		Berger		Extent of witness' agreement with hypothetical statements
	13977			Berger		Construction personnel restricted from fishing
	13979-81			Berger		Combined impact of pipeline construction and permanent road on fish populations; nutrient levels, climatological factors on fish, Mackenzie watershed and Canadian Shield
	14002-04			Berger		Scheduling of hearings; hours of sitting; possibility of a caribou panel
	14014-16			Berger Banfield	CAGPL	Torry Canyon oil spill off Britain, use of chalk to contain spill; "Super Ship" by Mostoert
	14020			Berger		Possibility of oil spills during transit, storage
92	14059-61	Nov. 21		Berger		Scheduling of hearings
93	14064-65	Dec. 1		Berger		Canol pipeline re: reports and exhibits; Hemstock's involvement
	14108-09			Berger		Abandonment of peregrine falcon nests, nesting site requirements
	14119			Berger		Disturbance of snow geese by fixed wing aircraft
	14171			Berger		Impact of construction on species classified as rare and endangered
	14196			Berger		Consideration of sensitive environmental areas
94	14201-03	Dec. 2		Berger		Delta Phase; scheduling of Phase 3; gas plants - Parsons's Lake; pipeline route
	14205			Berger		Sensitive environmental areas- off-shore route, coastal lagoons
	14336-37			Berger		Dempster Highway; access
	14212-14			Berger		Upper Delta region; cross Delta Route Change, Delta phase
	14232-34			Berger		Recommendations re: compressor station location, distance from nesting sites, mobility of the
	14242-43			Berger		Construction schedule, shut-down for environmental reasons
	14249-50			Berger		Comparison of yearlings and cows on North Slope to herds in other areas
	14290-95			Berger		Economics of scale re: gas delivery; route selection; North Slope of Alaska; Dempster Highway - impact on Porcupine Herd; Arctic Wildlife Range; oil supply; alternative routes; other herds

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94	14318-20	Dec. 2	YK	Berger		Government to weigh up damage and disturbances; gas costs, difference between applicants; coastal and interior routes; Dempster Highway
	14321-25			Berger Scott	MVPI	Appearance of witnesses; CARC witnesses; Dempster Highway question
95	14378-79	Dec.3		Berger		National Environmental Policy Act; environmental hearings
	14381			Berger		Conducting of impact assessments; conduct of an Inquiry
	14393-99			Berger		Environmental assessment by Arctic Gas
	14427-28			Berger		Alyeska project - need for an all weather road; along North Slope a road would change predictions re: access, impact, mammal and bird disturbance, as made by CAGPL environmentalists
	14432-37			Berger		Clarification of assumptions upon which the impact predictions re: Coastal route were based
	14442-43			Berger		Dempster Highway, threat to caribou herd
	14448			Berger		Route choice
	14462-63			Berger		Corridor concept; consideration of future development
	14467			Berger		Responsibility re: environmental assessment by CAGPL
	14494-95			Berger		Response to Banfield caribou migration experiences
	14498-99			Berger		Land use plans - Scotland, Alaska
	14509-23			Berger		MOT - flight regulations, enforcement; recommendation to the Inquiry; Unions; civil liberties; James Bay
	14525-35			Berger		Berger's promise to have another community hearing in Whitehorse; alternative transportation corridors, consideration by the Inquiry; mandate of the Inquiry
96	14554-55	Dec. 4		Berger		Fertility of caribou; survival
	14568-70			Berger		Hunting pressure in Old Crow, McPherson, Aklavik, Arctic Village; sport hunting and access from the Dempster Highway; seismic activity south of Old Crow and Eagle Plains area
	14629-30			Berger		Research on the interior route
	14654			Berger		Utilization of range; population levels of the Porcupine Herd
	14661-62			Berger		Remedial environmental measures
	14686-87			Berger		Corridor preference; Alaskan witness preference re: route by which to carry Alaskan gas
	14705-09			Berger		Procedural, appearance of witnesses
97	14716	Dec. 5		Scott	MVPI	Pursuit of alleged animal harassment by Renewable Resources
	14719-20			Scott Marshall	CAGPL	FPC report on Fairbanks route
	14738-41			Templeton	EPB	Inquiry guidelines re: impact assessment of highway along corridor
	14744-71			Templeton Scott Marshall Bayly Bell Hollingworth	MVPI CAGPL COPE/ITC NWT IB/MA Foothills	Terms and conditions, recommendations from witnesses, regulation of pipeline, "enforcement phase"
	14783-86			Banfield	CAGPL	Impact assessment subjective; EPB impact matrices
	14790-94			Scott		Banfield's attack of EPB methods
	14799			Gunn	CAGPL	Arrangement of overflight restrictions with MOT
	14808			McCart	CAGPL	Recommendations put into written form aids Inquiry
	14825			Scott		Exclusion of impact of Dempster Highway in CAGPL assessment
	14851-61			Scott		Value of snow geese, California overwintering

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98	14911	Dec.8	YK	Gunn		Bottom sampling from barge, Shallow Bay
	14918-19			Scott		CAGPL recommendations re: increased human access to birds
	14924			Jakimchuk	CAGPL	Population increase, Bluenose caribou herd
	14944-46			Marshall Jakimchuk		Caribou impact studies
	14948-49			Scott		Other caribou herds
	14956-57			Scott		Argumentative cross-examination
	14961-67			Berger		Construction stoppages, North Slope, caribou arrival, union problems, weather
	14969-70			Scott	MVPI	Shutting down North Slope construction if caribou herd appears
	14982-83			Jakimchuk	CAGPL	Caribou habituation to man's presence
	14995-97			Scott		CAGPL cooperating with government in game management programme data collection
99	15072-75	Dec. 9		Gunn	CAGPL	Creating industrial parks, leaving wilderness; International Wildlife Range
	15101-04			Hemstock	CAGPL	Archaeological salvage plans, check with Museum of Man
	15163-64			Whitney	Foothills	Relative impact of gas oil pipelines, highway
100	15334	Dec. 10		Bayly Finney	COPE/ITC Foothills	Would like to read report "Parameters for Ecosystem Evaluation", (DOE). Finney's explanation, difference between objective and subjective judgements
	15354-58			Scott Marshall Whitney	CAGPL	CWS report, Bluenose caribou herd; author's permission needed for release of report; methods of obtaining reports
	15361	Dec. 10		Whitney		Request for article in <u>Science</u> about reindeer herding; absorption of reindeer by Bluenose caribou herd
	15366			Whitney		Reindeer herding, "ration rape of north"
101	15428-29	Dec. 11		Peterson	CARC	Designation of specific areas to be avoided under guideline # 4
	15484			Marshall		Effects on pipe of palsa formation in fens
	15496-500			Zoltai Lutes	CARC Foothills	Mileage of fenland, prime route
	15504			Zoltai		Experiments on frost heave not done in wet fenland
	15508-16			Carter Peterson	CAGPL	Peterson giving own opinion about guideline corridors; inclusion of Delta in corridor; Delta to be considered for special restrictions; guidelines not statutes; Arctic Gas misinterpretations
	15521			Zoltai	CARC	Experiments, preventing artificial palsa formation in wet fens
102	15566	Dec. 12		Peterson	CARC	Native people part of ecosystem in IBP sites; bag limits only limitation
	15574			Peterson		Study by Kreith, environmental assessment of projects in U.S.
	15592			Peterson		Proposed IBP sites applied for; sites along pipeline routes
	15626-30			Novakowski	CARC	Animal harvest by native people; definition of "taxonomy"
	15650			Novakowski		Endangered status of polar bears
	15676-78			Novakowski		Endangered status of grizzly, polar bears
	15682-83			Novakowski		Wolf bounty
	15707-11			Novakowski		Peregrine falcon populations, other countries; Eskimo curlew; discussion of "rare and endangered"; polar, grizzly bears, whooping crane
103	15752-54	Dec.15		Walker	CARC	Choice between Prime and Interior route re fish resource
	15838-39			Anthony Marshall	CARC CAGPL	Reference to Stein re question on sedimentation; adjournment statement
104	15868-70	Dec.16		Stein	CARC	Time required for fisheries studies before commencement of pipeline construction should occur
	15897-99			Stein Bayly Marshall	COPE/ITC	Fish migration in Shallow Bay - dredging impact; reference to Delta hearings at Inuvik, January, 1976

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104	15914-17	Dec.16	YK	Bayly	COPE/ITC	Division of fisheries studies between Dr. McCart and Fisheries Service
	15919-20			Bayly		Fisheries impact recommendations by Steigenberger, Dr. McCart
	15944-45			Steigenberger	CARC	Eskimo population in 1900
	15967			Anthony	CARC	Distribution of reports re CARC conference on Mackenzie Delta, December 3, 1975
105	15978-80	Dec.17		Steigenberger		Necessity, asset, disadvantages, gravel requirement of permanent road along oil pipeline; Aleyeska pipeline
	15986-88			Steigenberger		Buffer strip, interior of Foothills re gravel extraction
	15997			Marshall	CAGPL	9 a.m. C.B.C. National News report re summation of evidence at hearing
	16014-15			Walker	CARC	Clarification of research cost re pipeline
	16018-20			Walker		Protection of fishery; timing of winter season proposal
	16031-32			Walker		Addition of supply leg re comparison of Fairbanks Route and Prime Route
	16055-56			Marshall Stein	CARC	Summation of evidence of panel and McCart re spawning, migration, overwintering of fish, need to complement research; clarification re data to complete knowledge gaps of spawning, migrating and overwintering areas
	16094-95			Stein Ryder	MVPI	Clarification re categorization in Dr. McCart's stream catalogue
	16118-20			Ryder		Terms and conditions for Inquiry re imperfections
106	16155-58	Dec.18		Berger		Acknowledgement of Father Fumoleau's book; clarification of caribou panel, witnesses in January
	16164-65			Carter	CAGPL	Comment supporting Lent's presentation of evidence
	16183-87			Lent	CARC	Request for further information re Gates of the Arctic parks, habitat of Arctic herd, Arctic coast re status of areas.
	16209			Calef	CARC	Clarification re impact of Interior Route on Old Crow caribou migration
	16211			Calef		Clarification re Interior and Coastal Routes: advantages and/or disadvantages
	16249			Lent		Legal status of wilderness
	16269-72			Lent Calef		Clarification re study of caribou calving grounds in Canada; question re calving grounds in Alaska; population of Arctic herd
	16277			Bayly	ITC/COPE	Lent's evidence re ground to be covered in Phase IV
	16279			Berger		Adjournment
107	16299-300	Jan.12		McT-Cowan	EPB	Oil pipelines down the Mackenzie Valley route
	16302-05			McT-Cowan Wilimovsky Templeton	EPB EPB	Route preference of Wilimovsky, McCart, Walker, Steigenberger
	16344-47			Templeton		Procedural; Dr. Thomson joining the EPB panel
	16359-62			Adam	EPB	Snow road tests; North Slope snow accumulation; winter roads vs. snow roads; scheduling
	16377-88			Templeton Wilimovsky McT-Cowan Craik	EPB EPB	Pipeline authority - government agencies that could be involved; creation time; Arctic Institute of North America; Arctic Environmental Council in Alaska; existing environmental legislation
	16399-406			McT-Cowan		Route preferences re: caribou sensitivity; calving; wintering, differing opinions; research
108	16412	Jan.13		McT-Cowan		Calving of caribou on the North Slope - upper or lower slopes, Dr. Banfield and Dr. Calef's opinions
	16420			Gourdeau	EPB	Mr. Gourdeau's position as Director General of New Quebec
	16428-29			McT-Cowan		Route preferences re impact on caribou
	16438			McT-Cowan		Areas of potential oil discovery
	16449			McT-Cowan		Posting of a surety bond to ensure the survival of the Porcupine Herd
	16516-19			McT-Cowan		Furbearers; muskrat hunting in Old Crow Basin

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108	16523-26	Jan. 13	YK	Carter Gourdeau	CAGPL	Proximity of routes to native villages
	16531-32			Craik		Off-shore discoveries, hearings in the Delta
	16535-37			Marshall Scott Templeton	CAGPL MVPI EPB	Pipeline looping
	16540-42			Berger		Looping, oil pipeline; Prudhoe Bay leg-looped
	16545			Bliss	EPB	Ultimate experiment re. impact, is to build the gas pipeline
	16558			Bliss		Land use planning; plan before or after a pipeline decision
	16568-69			Bliss		Land claims settlement, land use planning, EPB report
	16581-82			Berger Scott		Auditor group - mandate and responsibilities
109	16644	Jan. 14		McT-Cowan	EPB	Aesthetic damage to the North Slope
	16652-58			Berger		Wilderness concept; Guideline No. 4 and 5; exchange of areas; designation of unique and sensitive environmental areas
	16661-62			McT-Cowan		Wildlife refuges; IBP sites; trade-off re: North Slope
	16666			Templeton		Calef route
	16687-89			Templeton Scott		Attitudes of labour organizations
	16708			Berger		Administration of codes
	16714-17			McT-Cowan Wilimovsky	EPB	Wilderness values, quantification of wildlife, value of oil and gas reserves
	16724-26			Berger		Response to EPB's performance in the Inquiry
	16735-36			Berger		Veale's proposal to be considered in March; impact statement to the FPC
110	16771-72	Jan. 15		Bergerud Lent	CARC CARC	Appearance of witnesses
	16784-88			Calef Marshall Ryder	CARC CAGPL MVPI	Appearance of witnesses; McT-Cowan and Jakimchuk participation
	16834-35			Bergerud Lent		Vegetation - greening out, habitat requirements re: caribou
	16886-87			Lent Carter	CAGPL	Lent's film, caribou crossing of elevated oil pipeline; barriers, gas pipeline
	16889-90			Carter		Surcharging the berm in continuous permafrost areas
110	16899-900	Jan. 15		Carter	CAGPL	Construction scheduling; recommendations to the Inquiry; Jakimchuk's recommendations
111	16910-13	Jan. 16		Calef Jakimchuk	CARC CAGPL	Porcupine herd calving grounds location
	16920-25			Calef		Porcupine herd post-calving aggregation; wintering south of Porcupine River
	16961-63			Calef Bergerud Lent	CARC CARC	Alaska Conservation Society may appear as participant; thanking witnesses for appearing
C-24	2393-24	Aug. 23	TL	Berger		Opening remarks
	2404-07			Berger		CBC reporting of Fort Liard community hearing; mandate of the Inquiry
	2411-12			Berger		Procedural
	2429-31			Berger		Arctic Gas and Foothills views re settlement of native land claims, position of Dene people
	2434			Berger		Appreciation of people of Trout Lake for speaking at the hearing; schedule of forthcoming community hearings
	2435-37		NB	Berger		Invitation to the community of Nahanni Butte to speak at the community hearing
	2447-48			Berger		Land use permits re boundaries of Nahanni Park, geologic survey camp, airport
	2451-52			Berger		Pointed Mountain Chemical Gas Plant; employment opportunities for northerners
	2467-68			Berger		Closing remarks; visibility of seismic lines from the air
C-25	2469-71	Sept. 8	FS	Berger		Outline of nature of inquiry; participants

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C-25	2492-94	Sept.8	FS	Erion Dixon Rutherford	NWT CC NWT CC Foothills	Four year construction schedule concept, project cost
	2515-17			Hammond	Citizen	Construction of second pipeline - impact on northern communities
	2531			Workman	CACPL	Labour force required during peak pipe-laying period
	2536-41			Lamothe	Citizen	Pipeline guidelines, final report recommendations, oil pipeline considerations
	2559-60			Hammond	Citizen	Alyeska pipeline - social impact as subject of upcoming hearing
	2569-70			Hutchison	MVPI	Procedural
	2576			Casarand	Citizen	Social assistance in Fort Simpson
	2580-81			Berger		Letters to the Inquiry
	2611			Berger		Adjournment remarks
C-26	2613-14	Sept.9		Berger		Introduction re representatives, reporters, broadcasters, purpose of hearing
	2720			Berger		Direction of Inquiry; contribution of Fort Simpson people useful
C-27	2722-26	Sept.10		Fizer	Citizen	Recommendations re union agreement; native people versus northerners generally; assurance of employment for northerners; percentage quota, hiring
	2739			Covie	Citizen	Clarification re map, historical use of it by people
	2742-45			Dodd	Citizen	Re Hire North; length of business, level of employment, winter employment maintained
	2747-48			Rutherford	Foothills	Lower interest rates, government greater share of revenue
	2752-59			Workman Rutherford	CACPL Foothills	Gemini North; cost of pipeline re Foothills; Arctic Gas
	2770-72			Paulette	Citizen	Inquiry terms of reference; pipeline guidelines; visits to other pipelines, Kingston, Alaska; objectives of Inquiry
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	2782-83			H. Hardisty	Citizen	Letter re land use permit to COMINCO; file relations to Mackenzie Highway
	2797			H. Hardisty		Clarification re conflict in Simpson between Dene and Moola people
	2833	Sept.11		Berger		Summary of day's events re visits to Yendi and Boots Brothers camps; Mackenzie Highway construction by Hire North and two borrow locations
	2847-48			Berger		Clarification re his relation to Government of Canada
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	2857-58			Berger		Clarification re access road from Jean Marie River to Mackenzie Highway
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	2869			Antoine	Citizen	Verification re beaver hide soaked with oil
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	2913			Berger		CACPL, MVPI re peak manpower requirements
	2919-31			Peterson McConnell	Citizen Citizen	Post-construction NWT economic benefits, further gas, oil exploration; Inquiry recommendations; scheduling of manpower requirements for second gas line; Alaska Oil Pipeline - cost, impact; energy, transportation corridor; introduction remarks

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	3577-83			Hovi	Citizen	Completion of Dempster Highway construction; benefits of pipeline to northerners re employment, community fuel supplies, Canada's balance of payments, business opportunities, royalties issue
	3606			Dahl	Citizen	Recommendations re guarantee of employment of northerners by applicants
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	17076-77			Bliss		Beluga whale population, Delta area; calving; intrusion of Cross-delta route
	17079			Bayly	COPE/ITC	Evidence on Beluga whales in Delta region will be presented by somebody
	17092			Bayly		Waste heat from compressor stations to heat greenhouses
	17111-12			Bliss		Hunting birds in Kendall Island Bird Sanctuary; excluding development in Caribou Hills IBP site
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	17902-06			Bayly Wopnford	COPE/ITC GPC-D-S	Phasing out southerners; shortage of skills on pipeline; governments' success in employing natives; success of training programs
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	19937-39			Gibbs Williams		Consideration of summer construction on Richards Island and North Slope due to harsh conditions; gravel road called for if so
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	20376-79			Webb		Whale disturbance, Mackenzie, Shallow Bays
135	20405-11	Mar. 25		Hollingworth Bayly	Foothills COPE/ITC	Admissibility of COPE evidence on petroleum development, western Arctic
	20417-18			Bayly		Failure of industry, government to consult with local people, evidence heard in communities
	20423-24			Hollingworth		Will hear Usher's COPE evidence, will consider hearing other COPE evidence on petroleum development, western Arctic
	20535-36A			Hemstock	CAGPL	Cross-versus circum-Delta route, environmental advantages
136	20602-04	Mar. 26		Berger		Will admit COPE/ITC evidence on western Arctic petroleum development
	20610			Marshall Scott	CAGPL MVPI	Nomenclature of cross-Delta alternative routes
	20627			Banfield		Whale alarm, Shallow Bay
	20681			Scott		Re-examination of Sprague (MVPI)
	20724			Peet	MVPI	Domestic fishing future depends on native aspirations
	20754			Peet		Conflict of wharf location with domestic fishing sites
	20766-67			Peet		Great Slave fishery
137	20772	Apr. 5		Berger		Comment about relevancy of proposed evidence of Nicol on Mizushima oil spill in Japan
	20808			Davies	MVPI	Environmental Impact Assessment Act in Ontario, statement required
	20811			Davies		Development of proposed routes, methodology, criteria
	20837-40			Berger		Admissibility of Nicol's proposed evidence
	20897			Mossop	MVPI	Decrease of caribou populations due to hunting, request for figures
	20916-17			Marshall	CAGPL	Farewell remarks to Marshall who will be replaced by Steeves
138	20952	Apr. 6		Norton	MVPI	Rollins, head of Alaska pipeline office
	20983			Berger		Request for article by Gross in Alaska Magazine
	20995			Berger		Comment re start of Phase 4, presence of Sigler, Association of Municipalities, and Reesor, Chamber of Commerce
	21015			Mossop		Buried gas pipeline along coastal route, not interior route
139	21162-66	Apr. 7		Berger		Commission counsel to ask Mr. Moolin - Senior Project Manager on Alyeska pipeline to appear before hearings to discuss feasibility of pipeline construction during Dec., Jan.
	21199-200			Heacock	MVPI	Minimum flight elevations for aircraft
140	21283-84	Apr. 8		Nicol	COPE/ITC	Tuktoyaktuk harbour - use by oil freighters
141	21516-17	Apr. 9		Berger		Request that participants prepare final submissions-Phase 1-3 - during Southern Hearings
142	21564-65	Apr. 13		Berger		Manpower Delivery System
	21600			Berger		Training of petroleum workers in underdeveloped countries
	21606-16			Giroux Virtue	Nortran Nortran	Unions; Nortran attrition rate; duration of programs
	21662-63			Berger		Nortran program, vocational training for pipeline operation
143	21679-80	Apr. 14		Berger		Gas plants, delta region; recruitment for Nortran program
	21701-12			Berger		Construction training
	21727-28			Berger		Feasibility of training northerners for skilled, management positions
143-A	21870-71			Russell	NWT IB/MA	B.N.A. Act, Official Languages Act
	21881-83			Russell		Guarantees to native people, French and English Canadians under the B.N.A. Act

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144	21991-99	Apr.15	YK	Saul	NWT IB/MA	Economic policies of Third World Nations; reliance on cash crops; concept of metropolis and hinterland
	21912-16			Sanders	NWT IB/MA	Recognition of Indian title, regional bands; formalization of native land ownership; government, native views on land titles
145	22194-202	Apr.26		Berger		Question of moratorium on major development until land claims have been settled
	22213-21			Berger		Southern opinions; need for gas vs. the rights of people in the north
147	22354	Apr.28		Page	NWT IB/MA	Northwest Rebellion 1885, Manitoba uprising 1869-70
	22361-63					Re presentations by witnesses Young, Jones, McCullum, Richardson and Page for NWT IB/MA
	22376-78			Page		Northwest Rebellion, creation of provisional government, Red River uprising
	22390			Berger		Cannot always compare natives of north coast B.C. with natives of Machezie Valley
	22392-95			Berger		Relevance of witness statements to the inquiry
	22430-34			Richardson	NWT IB/MA	Number of natives employed in James Bay Project
	22437			Richardson		Lack of native employment, James Bay several problems
	22445			Richardson		Openings for employment, post pipeline construction
	22474			Berger		Thanking panel, NWT IB/MA, for their historical and contemporary perspective regarding the impact of development
148	22565-67	Apr.29		Berger		Government financing through native employment or welfare; questions pertaining to figures given for number of trappers, hunters
	22576-80			Berger		Asking Bayly and Veale to obtain corresponding figures, as those in N.W.T., of number of people living off the land in the Western Arctic and Old Crow region
	22597			Berger		Whether record sheets on the land use research indicates species hunted, trapped
	22611-13			Berger		Would appreciate hearing the framework or mainlines of the Dene Land Claims
	22618-19			Berger		Understanding purpose of the Land Use Map, shows present and some routes of the past - used by hunters, trappers
	22625-26			Berger		Thanking NWT IB/MA panel, keeping in mind maps of hunting and fishing from community hearings, which are relevant to the land use issue
	22645			Rushforth	NWT IB/MA	Question as to population of Fort Franklin, approximately 400
	22669-72			Rushforth		Question on how the dollar value was estimated for replacement value on caribou meat and other traditional foodstuffs
149	22759-61	May3		Ritter	NWT IB/MA	Re Destruction City, encampment of people going to Klondike, 1890's
	22766-67			Ritter		Re Han, Northern Tutchone languages, place names
	22794-98			Ritter		Re native languages; Athabaskan languages
	22800-03			Ritter		Re hymn book, Bible in Loucheux language; Eastern Arctic paper in syllabics
	22827-28			Simpson	NWT IB/MA	Article by historian Hugh Trevor - Roper; perspectives of western historians
	22840-43			Simpson		Switch to more technological research and development in Third World countries; shift in attitudes about development
150	22878-79	May4		Hills	NWT IB/MA	Question of existence of non-European society that has recognized aboriginal rights
	22886-87			Hills		Government provision of infrastructure for establishing enterprise
	22890-91			Hills		Re use of word "collusion", relationship between transnational corporations, federal government
	22895-96			Hills		Woodward Commission, Australia, rights of Aborigines to land
	22898-99			Hills		Fell-and-burn agriculture, Amazon forest

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150	22902-05	May 4	YK	Hills	NWT IB/MA	Woodward Commission, dealing with future of aboriginal people
	22930-33			Simpson		Imposition of western values on other cultures
	22939-40			Simpson		Lessons in science, technology to be learned from indigenous peoples
	22943-44			Kurszewski	NWT IB/MA	Candidacy of H. Mercredi for mayor of Fort Smith
	22970-71			Bean	NWT IB/MA	Re land claims evidence
	22979			Bean		Land claims proposal by Inuit to the Federal Cabinet
	22987-88			Bean		Property tax system, collection in only some communities
	22996			Hollingworth	FOOTHILLS	Speech by Gibson, Chariman of the Board, Foothills, land claims settlement
	23004-05			Bean		Pipeline guidelines, policy document of the federal government
	23016			Bean		Southerners, role in possible future Dene political system
	23022-23			Bean		Oscar Lewis, culture of poverty
	23025-26			Bean		Canadian Cabinet, decisions by consensus
	23031			Bean		Tendency to exaggerate advantages of the pipeline
	23037			Bean		Possible southern frustration with future possible Dene, Inuit systems of decision making
151	23040-41	May 5		Veale	CYI	Question of possible community hearings, Fairbanks route
	23051			Irving	CYI	Re maps of archaeological site, Old Crow area
	23063-64			Irving		Northern Yukon never glaciated; extent of ice coverage
	23073			Irving		Work of Soviet archaeologists in Siberia
	23180			Smith	CYI	Re recommendations put forward by CYI
	23193-94			Leuk	CYI	Agreement-in-principle, land claims settlement, Yukon
	23205-10			Smith		Fairbanks route; opposition of Old Crow people to pipeline in their area; proposed public share-holding company
152	23214-15	May 6		Steeves	CAGPL	Procedural
	23275-78			Steeves		Explanation of native position on land claims issue
	23292-94			Berger		Need for natives to indicate political, economic organization envisaged with land settlement
	23299-313			Bayly Steeves	COPE/ITC	Addressing question - if pipeline is built before land claims are settled will native bargaining position be impaired
	23322-25			McClellan	CYI	Explanation of native dual economy
	23348-49			Notti	CYI	Use of land freeze in settlement of Alaska native land claims
	23376-406			Berger		Procedure - recall of Notti; justifying Yukon hearings, letter from Northwest Pipeline and Westcoast Transmission re intention to transport gas via Fairbanks corridor
153	23418-19	May 7		Sharp	CYI	Population of Ross River, 1966-67, 140
	23463			Sharp		Can not place weight on Sharp's prediction concerning pipeline
	23471			Sharp		To submit Dr. Stager's paper as an exhibit; percentage of food obtained from bush
	23487-89			Berger		Native employment
	23495			Sharp		Ross River, an affected community
C-40	3808-09	Feb. 23	AK	Berger		Introductory comments, noted pipeline route change by CAGPL
	3816			Berger		Request for Hunters and Trappers Association to present evidence of traditional hunting and trapping areas
	3838-39			Archie	Citizen	Pipeline buoyancy; chilled gas, no need for expansion joints
	3841-46			Rowe	CAGPL	Whales disturbed by pipeline noise in Shallow Bay; two pipelines under Shallow Bay, fixing a leak; native employment on pipeline
	3871			Greenland	Citizen	Request to photostat land use application by SHELL to drill on western side of Richardson Mountains

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C-41	3893-97	Mar. 2	HOL	Berger		Introductory remarks including summary of Inquiry to date
	3955-56	Mar. 3		Joss	Citizen	Summary of Joss' evidence re beluga whales in Klengenber Bay, near Reid Island; bowhead whales in area
	3964-65			R. Goose	Citizen	White fox catches, caribou seal, statistics clarified
	3972			R. Goose		Value of food, caribou and fish, equivalent in beef and fish from south
	3973-75			A. Goose	Citizen	Summary of his job, role of Federal Government, National Energy Board
	4016-18			Kanayok	Citizen	Why the government wants to build a pipeline
C-42	4019-22	Mar. 4	SACHS	Berger		Purpose of Inquiry, summary of proposals
	4025			Berger		Letters from Holman Island children marked as exhibit
	4043-44			Essau	Citizen	Questions re caribou found tangled with seismic wires
	4046			Nasogaluak	Citizen	Introduction of Gulf representative, Mr. Hnatiuk
	4055-60			A. Carpenter	Citizen	Possibility of blowout, - clean-up of oil spill; government and industry
	4075-77	Mar. 5		Rousselot	Citizen	Determining the age of human settlements archaeologically, their lifestyles, their relation to the Inuit people
	4091			Berger		Rousselot's statement to be an exhibit; Rousselot will provide copies of slides to Inquiry
	4094-108			A. Carpenter Hnatiuk	GPC-D-G	Oil spill clean-up, summary of Milne's theory and Hnatiuk's theory; trappers in Sachs Harbour; government position on oil spill chances; impact of oil spill on food chain; drilling a relief well in two seasons, reliability
	4109-13			Hnatiuk		Burning off oil spill before weathering, example of "Torrey Canyon"; Balaeno Bay study
C-43	4137-38	Mar. 7	NSH	Berger		Summary of pipeline project
	4140			Chicksi	Citizen	Purpose of Inquiry to study impact on wildlife
	4144			Wolkie	Citizen	Chances of a blowout studied by scientists
	4155			Chicksi	Citizen	Number of families in North Star Harbour
C-44	4157-61	Mar. 8	TUK	Berger		Purpose of Inquiry, summary to date
	4216			Berger		Description of maps on wall, invitation to view them
	4261-62	Mar. 9		Allison	COPE/ITC	Request that Bayly raise issue of water fowl breeding on Banks Island, Cape Bathurst left out of Bird Sanctuary map
	4284			Carter	CAGPL	Reference to Dr. Schwartz's submission re Brodie's whale report shelved by Slaney Associates, validity of allegation
	4290-95			Norberg	Citizen	Studies on bowhead whales in Beaufort Sea by Sergeant, Webb, Brodie; disclosure of Brodie's report by CAGPL; offshore drilling in Beaufort Sea, construction of artificial islands, possibility of a whale sanctuary in Mackenzie Bay
	4317-19			V. Steen	Citizen	Introduction of Horsfield, Imperial and Hnatiuk, Gulf; chances of a blowout, amount of oil spilled per day, thickness when spread
	4328-29			V. Steen		Dredging below ice surfaces
	4333-36			Berger		DOMES' claims for oil spill clean-up, points of view re capability
	4338-42			Hnatiuk Horsfield	GPC-D-G GPC-D-I	Feasibility study on burying pipeline by R.J. Brown; quote from Schwartz's brief on artificial island cracking up, dykes destroyed
C-45	4354-55	Mar. 10		Schwartz	Citizen	Comment re Brodie's participation in Slaney report

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C-45	4387	Mar.10	TUK	Townsent	Citizen	Participation of natives in Inquiry
	4416			Berger		Quotes from Slaney's report re whales in area
C-46	4420-24	Mar.11	PAUL	Berger		Summary of proposal, purpose of Inquiry
	4457-60			N. Green	Citizen	Impact of pipeline on social life, Alyeska as a precedent
	4461-62			R. Kirby Beer	Citizen Foothills	Increase in prices because of high wages paid to pipeline employees; priority on barges
	4482-83			R. Kirby		Introduction of oil companies' representatives, summary of proposals
	4486-91			Berger		Oil exploration in Mackenzie Delta; position of DOME'S wells; risk of blowout, contingency plans
	4499			Hnatiuk	GPC-D-G	Barrels of oil burned at Balaena Bay
	4502-12			Hnatiuk		Testing of drill ships in Arctic Ocean, Gulf of Alaska, Beaufort Sea; ships around Point Barrow, danger of blowout, ratio
C-47	4524-26	Mar.13	ARR	Berger		Companies' proposals for pipeline; introduction of Inquiry staff
	4549-50			T. Andre	Citizen	Decision to be made by Ottawa
	4558-59			Beer		Gas leak may trigger forest fire; damage caused by oil spill
	4563-65			N. Norbert	Citizen	Alternate ways to transport gas, railway suggested; role of NEB; numbers to be employed during construction
	4589-90			G. Bluecoat	Citizen	Importance of concern expressed for pipeline built in permafrost
	4609-12			J. Andre	Citizen	Foothills and CAGPL routes; Mackenzie River crossing, gas under, oil over
	4625-27			W. Simon Beer Carter	Citizen Foothills CAGPL	Construction workers not allowed in communities; enforcement
	4636			N. Norbert	Citizen	Reasons for constructing Mackenzie Highway only to Wrigley
	4651-55			B. Natsie	Citizen	Role of government in final decision; role of NEB
C-48	4657-58	Apr.30	FS	Berger		Opening remarks, introduction of Inquiry staff
	4694-99			F. Paulette	Citizen	Concept of oil to follow gas pipeline, role of government, Inquiry, NEB
	4701-02			Berger		Letter from Bob Stevenson re what he will say at Fort Providence hearing
	4708			R. Brunt	Citizen	Game management office is allowing wolves to manage buffalo
	4736-37			G. Beattie	Citizen	His report goes to Buchanan and Cabinet colleagues
	4754-58			M. Beaulieu	Citizen	Role of government, NEB and Inquiry; drilling in Beaufort Sea, Inquiry looking into long-term risks involved
154	23593-601	June29	YK	Watkins	NWT IB/MA	Measurement, Canadian income; Innis' staples theory of Canadian history; Gross National and Domestic Products; income levels
	23631-35			Hollingworth Bell Jackson	Foothills NWT IB/MA MVPI	Re: admission of evidence from John Helliwell, NWT IB/MA
155	23681-84	June30		Watkins		Definition of full-time hunters, trappers, fishermen; Rushforth's study, value of country food
	23690			Watkins		Non-native employees, availability, recruitment
	23696-99			Watkins	NWT IB/MA	Re: Watkins' evidence, comments on possible national benefits or lack thereof
	23708-11			Watkins		Proposed pipeline, occasion for discussion, possible settlement; proposed veto on development
	23728-59			Watkins		Re: admission of evidence from Helliwell; matters to be considered under terms of Order-in-Council, matters for NEB
	23785-91			Forrest	NWT IB/MA	Alaska land claims settlement, checkerboard pattern of land selection, regional corporations

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155	23824-32	June 20	YK	Forrest	NWT IB/MA	Alaska land settlement, cash portion, royalties; settlement with Tlingits, Haidis
155A	23837			Telliss	NWT IB/MA	Pointed Mountain gas accrued to Westcoast, BC Petroleum
	23869-73			Berger		Rules of the Inquiry, discussion over the omission of a document referred to by Telliss
	23883-89			Berger		Difficulty in defining "native northerness"
156	23901-02	June 30		Berger		Excluding Dr. Helliwell's evidence until Foothills has filed evidence relating to appropriate sharing of economic rents
	23971-73			Yazzie	NWT IB/MA	Question as to whether the Navajo have achieved political control as well as educational
	23984-89			Berger		Cultural survival of Dene dependant on control of education after initial land claim settlement
C-49	4763-68	May 10	VAN	Berger		Explaining the purpose of the inquiry, the subjects dealt with
	4847-50			Berger		Government of Canada created the Inquiry; role of CBC broadcasting news of the Inquiry; film being made by National Film Board
C-50	4852	May 11		Berger		Welcoming words
	4893-97			Berger		Bird disturbance discussed at formal hearings; Dome Petroleum, offshore drilling in Beaufort Sea, possible oil pipeline to follow gas pipeline
	4908-10			Berger		Explaining who the participants are; role of NEB
	4917-19			Koval	Citizen	How many native lawyers, which law school attended
	4925-27			Berger		Environment issues that have arisen during the inquiry
	4973-76			Simmons	Citizen	Issue of replacing food obtained from the land with store bought
	4994-96			Berger		Opening remarks
	5062-66			Potts	Citizen	Population statistics, Dene, Inuit, demographic trends
	5076-77			Berger		Closing remarks, Inquiry is place to have open confrontations, to learn from each other
C-51	5103-04	May 12	YK	J. Stokes	Citizen	Re Stockholm Conference on the Environment June 1972
	5116-18			T. Pearse	Citizen	Pipeline guidelines; establishment of the Inquiry; government funding for witnesses
	5184-86			P. Chataway	Citizen	Pipeline vandalism, opening of pipeline road, Alaska
	5211-14					Closing remarks
C-52	5215-20	May 13	CAL			Opening remarks, Calgary hearings
	5242-43			Poyen	Citizen	Proportion of energy supply from oil, gas
	5300-08			W. Milne	Citizen	Moving gas by airship, costs; Graf Zeppelin
	5314-20					Opening remarks, evening session
	5329-30			B. Sider	Citizen	Statistics, employment of northerners, petroleum industry
	5331-32			H. Buckmaster	Citizen	Establishment of Environment Conservation Committee
	5376-81			J. Rymes	Citizen	Winter conditions, outdoor construction; Alyeska, shut down in December, January
	5406			J. Ryan		Total number of employees, Indian Affairs branch
C-53	5412-18	May 14		Berger		Opening remarks
	5455			Pearce	Citizen	Development of the pipeline would lead to further exploration and development
	5467-69			Jonasson	Citizen	Reliance on estimations of gas reserves
	5510-11			Berger		Inquiry procedures
	5549-53			Berger		Up to NEB to decide, in the public interest, a pipeline should be built

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C-53	5572-73	May 14	CAL	Berger		Closing remarks
C-54	5574-79			Berger		Opening remarks
	5585-86			Berger		Reasons why questions are not asked by the lawyers at the Southern Community Hearings
	5661-69			Berger		Closing and opening remarks
	5700-01	May 17	EDM	Berger		Impact of Alyeska Pipeline very useful to the Inquiry
	5710-12			Berger		Role of NEB report, listening to all sides, role of CBC
	5734-35			Berger		Comment on Robertson's brief, Inquiry only concerned with impact north of the 60th, up to Alberta government to be concerned with its province
	5747-48			Berger		Closing remarks
C-55	5749-51	May 18				Opening remarks
	5784-87			J. Barry	Citizen	Foothills, CAGPL - different winter construction schedules
	5833-37			M. Venne	Citizen	Payment of union dues for native employment; opening remarks, afternoon session
	5907			H. Cardinal	Citizen	Provision of transcript of Cardinal's remarks to Weick, Haines
	5925-28			Berger		Opening remarks, evening session
	5972-75			Berger		Description of the two proposals; C.B.C. Northern Broadcasting Unit
C-56	6022-29	May 19	REG			Opening remarks, Regina hearings
	6074-77			Berger		Establishment of the Inquiry, finding
	6104-05			F. Tompkins	Citizen	Cost of Inquiry; funding for public participation
	6141-43					Closing remarks, Regina hearings
C-57	6144-49	May 20	WIN	Berger		Importance of southern hearings, summary of pipeline project
	6207-09			Berger		Southern hearings
	6227-28			Berger		Consideration of points of view
	6251-53			Berger		CBC broadcasting unit
	6312-14			Berger		Uniqueness of Inquiry
C-58	6315-20	May 25	TOR	Berger		Opening remarks re Inquiry
	6351-54			Berger		Establishment of Inquiry, mandate by Government; Mackenzie Valley studied by Government before Inquiry; Inquiry funded by Government; scope and variety of witnesses
C-59	6384-89	May 26		Berger		Opening remarks, Toronto session
	6443-44			Berger		Opening remarks, afternoon session
	6523-37			D. Pimlott	CARC	Large petroleum finds, distraction from studying alternative energy sources; opening remarks, evening session
	6571-72			Berger		NEB, Cabinet, decision on whether pipeline is necessary
C-60	6614-17	May 27		Berger		Opening remarks, Toronto session
	6648-51			Berger		Community hearings, Fairbanks route alternative
	6680-83			Berger		Possible government guarantee, repayment of borrowings; introductory remarks, afternoon session
	6701-03			J. Hart	Citizen	Cross-cultural learning program, Yellowknife and Inuvik
	6755-56			Horte	CAGPL	Government involvement in financing
	6759-62			Berger		Opening remarks, evening session
	6793-97			Berger		Terms of reference of the Inquiry; establishment, role of EPB
	6827-28			Berger		Closing remarks, Toronto session
C-61	6870-72			Berger		Closing remarks, Toronto hearings
C-62	6873-79	May 31	MTL	Berger		Opening remarks

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C-63	6964-66	June 1	MTL	Berger		Opening remarks
	7010-13			Berger		How the Inquiry was established, government of Canada
	7031			Ford	Citizen	Greatest employment impact of pipeline would be 105,000 persons
	7049-51			Berger		Role of Inquiry, opening remarks
	7137-40			Mukerie Berger	Citizen	Passage from presentation by Berger at 1975 Corry lectures; can not hear everybody in public, but all briefs read
	7175-76			Berger		Asking witness to leave brief to be read, as it was not directly relevant to inquiry
C-64	7188-93	June 3	OTT	Berger		Opening remarks
	7324-26			Berger		Government role in establishing the Inquiry, role of DIAND
C-65	7365-67	June 4		Berger		Opening remarks
	7382-85			Berger		Explaining how experts in fields such as caribou, heaves were brought to the inquiry, obtaining best possible information
	7411-12			Berger		Engineers who have participated in the project; Soviet pipeline
	7402-03			L. Newall	Citizen	Date limits to which potential use of solar energy projections have been made
	7433			Berger		Opening remarks
	7443			A. Fisher	Citizen	Asking witness whether he had read brief by steelworkers' Union
	7520-25			Berger		Value of the briefs; opening remarks
	7587-88			Berger		Closing remarks
C-66	7589-95	June 7	CH			Opening remarks, Charlottetown
	7639			J. Butler	Citizen	Re Lennox Island, PEI
	7657					Closing comments, Charlottetown
C-67	7661-68	June 8	HAL	Berger		Summary of pipeline proposals, Inquiry to date
	7693-94			Hindson	Citizen	Production dates of Phase I and II of Cansteel project; offer to send copies of United Steel Workers brief and Steel Company of Canada brief to Hindson
	7705-07			R. Rohmer	Citizen	Alyeska pipeline delivering to markets who do not need oil, oil requirements of Americans; "Edge of the Shield Route"
	7726-27			P. Keddy	Citizen	Annual recreational benefits of migratory birds
	7740-41			Berger		Will circulate Herfst's brief to counsel and Judge Morrow
	7755-58			Berger		Opening remarks, summary of proposals and Inquiry
	7789-90			P. Brodie	Citizen	Request that Brodie meet with Roland to discuss white whale study
	7805-06			Roland	MVPI	Has Brodie seen transcript from Tuktoyaktuk re evidence on whale movements
	7820-22			Berger		Concluding remarks
157	24007-13	July 5	YK	Thompson	NWT IB/MA	Land Claims settlement compensation in cash; James Bay Agreement, limited right to control development
	24026-31			Thompson		Transfer of resources to provincial government; bonus payments for exploratory rights in Gulf of Alaska
	24074-80			Hobart	CACPL	Number of people of Indian blood in NWT; birthrate of natives; length of residence in NWT by non-natives
	24092-99			Hobart		Manpower survey; Gemini North figures on trapping and subsistence hunting; natives shame of own traditions
	24111-14			Hobart		Frustration of native people as they watch Inquiry assess their life, aspirations
	24128-39			Hobart		Aspirations of native people; how pipeline wages will be spent in community; dual economy

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158	24142-46	July 6	YK	Hobart	CAGPL	Re statistical tables presented by Hobart
	24152-64			Steeves	CAGPL	Re letter from June Helm to M. Asch; procedural matters
	24173-74			Hobart		Question re capacity of native people to return to old ways
	24184-86			Hobart	CAGPL	Possible oil pipeline, construction in corridor for a decade
	24192-95			Steeves Hobart	CAGPL	Hobart's testimony on Coppermine; Hire North, wage employment
	24287			Trusty		Movement of staging site to Axe Point, reaction of Hay River community
159	24314-16	July 7		Boorkman	CAGPL	Re housing problems in Alaska due to Alyeska pipeline - inability of supply to meet demand, mismatch of requirements with units being supplied
				J. Weinstein	CAGPL	
	24326A			Boorkman		Impact on small native communities, loss of leadership, population
	24371			Boorkman		Delegation of law enforcement to a private company
	24374-77			Lutes	Foothills	Foothills witnesses, construction panel, amendments to application filed; differences with CAGPL re winter construction schedule
	24386-88			D. Weinstein	CAGPL	High pay scales, Alyeska; overtime, work scheduling; features of Alyeska attracting workers
	24403-05			Boorkman		Climate of Anchorage, Valdez area
	24454-55			Boorkman		Expertise of CAGPL witnesses re native people, re Alaska land claims settlement
	24505-07			Boorkman		Alaska, child abuse and neglect
	24526-31			Boorkman		Alyeska, effects if had kept workers, movement of supplies separate from state facilities
	24565-68			Trusty	CAGPL	Influx of population to NWT, construction of pipeline, projection of numbers involved; location of hiring halls
	24572-74			Boorkman	CAGPL	Question re relationship between U.S. unemployment rate, population inflow to Alaska
	24588-89			Boorkman		Alaska native communities, loss of lenders
	24594-96			Boorkman		Government guarantee on borrowings, pipeline companies
	24609-10			Trusty	CAGPL	Valdez and Hay River, comparison of ability to absorb pipeline impact
160	24641-58	July 8		Asch	NWT IB/MA	Re evidence of Asch, Hobart on degree of importance, maintenance of traditional activities
				Rushforth	NWT IB/MA	
	24666-71			Asch		English, common language among native people
	24677-79			Rushforth		Re maintenance of extended family system among Dene
	24695-96			Rushforth		Young Dene men, chiefs of communities, leaders of organizations
	24707-04			Asch Rushforth		In order to assess impact, need to understand society, economics
	24732-33			Asch		Dene desire for self-determination; origins of idea for Dene Nation
	24736-38			Rushforth Asch		Development of resources, benefits to native people
	24748					Applicants, tendency to discount importance of bush economy
161	24774-76	July 12		Trusty		Man-years of employment
	24783-84			Trusty		Re view graphs, employment during operations and maintenance
	24847-48			Trusty		Influx of southern workers; impact on businesses, supply of services; insulation of communities from transients

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	24911			Hollands	CAGPL	Native Brotherhood of B.C., negotiations for fishermen with fishing companies
	24927-29			Trusty	CAGPL	Comment re level of exploration, investment if pipeline not built
162	24949-51	July 13		Williams	CAGPL	Ten-day rotational leave break, Christmas
	24985			Reesor	NWT/AM	Comment re CAGPL, definition of a northern resident
	24999-5001			Goudge	MVPI	Comment re ability of CAGPL witnesses to make policy decisions
	25022-23			Williams Goudge		Job training, on-the-job or creation of facsimile situation
	25039-42			Trusty Steeves	CAGPL	Christmas break, winter construction schedule; productivity
163	25115-16	July 14		Hobart	CAGPL	Comment re incident in Inuvik mentioned by Hobart
	25122-24			Hobart		Greenland, race proportions, racial mixture
	25156-64			Hobart		Per capita liquor consumption, Aklavik, Fort McPherson, Tuktoyaktuk; liquor ordinance violations
	25201-05			Hobart		Relationship between respiratory infections in children and neglect
	25236-36A			Trusty		Land use regulations, effect on transients, squatters; enforcement by authorities
	25258-59			Trusty		Subsistence and money economics
	25268-74			Hobart	CAGPL	Possible problems, disturbances, white workers in native communities; employment of natives in mining industry
	25281-315					Admissability of Helliwell's evidence
164	25316-22	July 15				Inadmissability of Helliwell's evidence
	25324-27			Hobart		Land claims, degree of native political control
	25332-37			Hobart		James Bay settlement; subsidies for trappers; need for elaborate administration for land claims settlement, Quebec; establishment of Cree, Inuit school districts
	25463			Hobart		Thompson, property interest in oil and gas leases, accomodation to land claims settlement
165	25520-21	July 19		Ellwood	Foothills	Meaning of "loss of productivity" re compensation
	25527			Jensen	Foothills	Canadian average in favour of home ownership
	25574			MacLeod	Foothills	Payment of quarrying fees to municipal governments
	25606-07			Jensen		Infant mortality rate, dysentary, hepatitis figures, incidence among native populations
	25611			Burrell	Foothills	Actual cost of gas to industrial users
	25618			Burrell		Tuktoyaktuk not feasible to serve gas because of cost
	25624			Reesor	NWT/AM	Breakdown of communities according to cost of supplying gas
	25629-30			Berger		Ruling on presentation of Helliwell's evidence
	25635-36			MacQuarrie Ellwood	MHA/NWT	Compensation for damage to trapline; stress factor
	25649			MacLeod		Enough gas to justify Foothills proposal?
	25673-77			MacLeod	Foothills	Inventory of northern business capacity to handle pipeline work, comment on parties reaching common point of view on some issues
166	25690-91	July 20		Berger		Briefs, letters sent to Inquiry available for everyone to read
	25700			MacLeod		Question re turnover rate of employees
	25711			Burrell	Foothills	Summing up Foothills position, allowing two years to settle land claims before beginning construction in 1978

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166	25718	July 20	YK	Burrell	Foothills	Not obliged to answer question re opinions of co-panalists	
	25731-32			Jensen	Foothills	Question re increased suicide rate since 1965	
	25745			Berger		Less bootlegging if there is a tavern available	
	25804			Berger		Approximately 2,000 Mackenzie Delta Inuit	
	25822-23			Berger		Hobart thesis shows preference for wage employment among native people	
	25840			Berger		Remarks re advantages of short term employment, allowing people to live off the land	
167	25960-63	July 21		Brody	COPE/ITC	Professional deformation; formation of white attitudes about natives	
	25985-89			Usher	COPE/ITC	Question re extent of use, caribou carcass	
	26001-04			Usher		Allen's, Inuvik, selling country food	
	26041-42			Brody		Native dependence on services; deliberate vs unintentional change	
	26048-53			Brody		Question re rate of adoption of Christianity by native people	
168	26061-64	July 22	YK	Brody	COPE/ITC	Impact of Christianity, settled vs nomadic societies	
	26077			Brody		Impatience of whites, natives should make choices	
	26093-106			Usher	COPE/ITC	Usher's changing views on maintenance of traditional sector; debate whether bush economy still thriving	
	26115			Brody		Most important opinions listened to are those of natives, communities	
	26145-71			Brody		Evidence of Hobart, comparison with Brody; impact of employment on Pond Inlet, Arctic Bay; increase in liquor consumption, NWT	
	26204-08			Brody		No history of northern native people using alcohol, drugs before arrival of whites; limited impact of remedial programs combatting alcohol use	
169	26296	July 23		Ruttan	NWT IB/MA	Question re how replacement value of fish in Fort Good Hope was estimated	
	26303-04			Ruttan		Harvestable population of Beverly caribou	
	26345-46			Ruttan		How young people spend their wages in the north	
	26355-56			Berger		No need to rely on Ruttan's evidence on economic impact as he does not proclaim himself to be an expert	
C-68	7823-26	July 16	FP	Berger		Opening remarks, description of two projects proposed	
	7840-41			Berger		Purpose of hearings	
	7859-61			Wirth Ellwood	CAGPL Foothills	Location of staging area at Axe Point, impact on Fort Simpson	
	7871			T. Collinson	Citizen	Question re proximity of farm of witness to Axe Point	
	7883			Ellwood		Laterals to communities, subsidization by southern consumers	
	7917-20			Berger		Closing remarks, Fort Providence hearings	
C-69	7922-24	July 17	KL	Berger		Opening remarks, Kakisa Lake hearings	
	7951-52					Closing remarks	
C-70	7953A-56	Aug. 9	RE	Berger		Opening remarks, summary of Inquiry, introduction of broadcasting unit	
	7993-94			Berger		Closing remarks; pipeline decision to be made by government	
C-71	7995	Aug. 10		Berger		Opening remarks	
	8001			Chief Charlo	Citizen	Pipeline employees, number to construct and maintain pipeline	
	8009-14			Berger		Establishment of Inquiry; Yellowknife hearings; importance of community hearings	
C-72	8143-44	Aug. 11		H. Koyina	Citizen	Sovereignty of Canada; land held by the sovereign	
	8151-52			Berger		Closing remarks	
C-73	8154-57	Aug. 12	LM	Berger		Opening remarks, summary of Inquiry, introduction of crew	

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C-73	8238-39	Aug 12	LLM	Berger		Closing remarks, appreciation to those who attended and spoke
C-74	8249-52 8268 8298 8306	Aug. 13	RL	Berger Berger Berger Berger		Opening remarks, summary of Inquiry Visit to home of J. Mantla, read his statement Good idea of community stand Closing remarks
C-75	8307-08 8335-36 8337 8342-43 8348-49	Aug. 21	CL	Berger Cuzon Cuzon Blair Berger		Opening statement Seismicity Doesn't want to hear community quarrels Compensation for hunting and trapping Closing statement
C-76	8350-51 8353-54 8362-63 8364 8367-68 8384-85	Aug. 25	DET	Berger Chief Charlo A. Liske A. Liske A. Liske Berger		Opening statement Laterals; denial that pipe will be stored in Delta No railroads volunteered to make route in lieu of pipeline; concern to NEB How route follows mountains and Mackenzie View that frost heave much greater than companies predict Closing statement
C-77	8386 8417-20 8437-38A	Aug. 26		Berger E. Erasmus Berger		Opening statement Setting witness on concern of inquiry Closing statement
170	26408 26469 26496-508	Aug. 16	YK	MacLeod Deyell Berger	Foothills Foothills	Question re post out-migration of natives Pipeline contractors and representatives will be needed to reach special agreement re construction unions Businesses which are waiting for the pipeline must wait for final governmental decision, after NEB hearings; reasons for population decline in Inuvik
171	26517 26695 26639-43 26651-55 26659-68	Aug. 17		Burrell Dixon Dixon Dixon Dixon	Foothills MVPI	Hiring northerner vs. southerner Divorce rate statistics Alaska, boom-bust cycle as result of pipeline; impact-social, request read Boorkman's testimony and mail comments Alaska, commercialized vice, street crime problems of enforcement Alaska, fire fighting; prostitution, health conditions, venereal disease
172	26750-51 26778 26797 26808-10 26867-68	Aug. 18		Dixon McDiarmid McDiarmid McDiarmid Dittrich		Alaska, local hiring policies, anybody claiming they are Alaskan Conferences related to community development recommendation of Carrothers Commission Question as to whether there is a spokesman for the United Church north of 60° Carrothers' report expressing view that NWT would become a province, no need to live in north for 10 years to become resident Question as to how the patients in the Frobisher Bay Rehabilitation Center had become handicapped
173	26939-40 26952 26958-60 26995	Aug. 19		Kyllo Dittrich Kyllo Dusel	COPE/ITC COPE/ITC NWT/AM	Arctic Winter Games Workers from Coppermine brought to the Delta to work in Gulf program, away from home for long periods of time Northern Games, Arctic Winter Games, different concepts Methods for school boards to raise funds for their budget, 25 percent comes from local taxes

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173	26997	Aug. 19	YK	Dusel	NWT/AM	Question re impact of television in the north
	27004-07			Dusel		Planning for a population growth in Fort Simpson up to 3,000; development plateaus
	27036-49			Dalby	NWT/AM	Economics of gas distribution, equivalent costs of gas and fuel oil
174	27059-65	Aug. 20		Dalby		Impact of construction postponement on economic feasibility of gas to northern communities; cost of natural gas
	27073-74			Bayly	COPE/ITC	Appreciation for municipalities' panel; to discuss controversial issues; Sigler's support for expansion of municipal government
	27102			Dalby		Gas supplied to community only if oil is not cheaper
	27149			Bayly	COPE/ITC	Will have Goudge consult with Territorial Government re Button's evidence
	27155			Blair	Foothills	Shareholders in Foothills
	27169-70			Hollingsworth	Foothills	Support for Steeves questioning of Blair re involvement of Canada's gas supply with foreign regulatory proceedings
	27183-83-A			Steeves	CAGPL	Phillips' statement re movement of Canadian gas questionable without Northwest project
	27187-92			Blair		U.S. shortage of gas, Alcan route alternative to Mackenzie Valley Pipeline route
	27198			Blair		Clarification of Foothills' construction plans
	27252-53			Ashton	NWT/CC	N.T.C.L.'s competition with trucking firms
175	27282-88	Aug. 23		MacLeod	NWT/CC	Criteria of a northern business; qualifications for preferential treatment re contracts; Saskatchewan's bonding agency
	27314-15			Ashton		Assistance to those outside petroleum and pipeline related fields by Mackenzie Pipeline Business Opportunities Board
	27327-28			Bayly		MacLeod, expert on impact on business, not social impact
	28332-34			Hinchey	NWT/CC	Mackenzie Valley pipeline authority; single agency, location, self destruction when project is over, answerable to Territorial Government
	27341-42			Ashton		Bid differential, subsidy by a private company
	27354-55			Scott	MVPI	Bidding preference to northern business, proposals regarding unionization will be sent to Pipeline Council for comment
176	27378-82	Aug. 24		Button	COPE/ITC	Young northerner, career aspirations, hearings as indicator
	27402-03			Robinson	COPE/ITC	USSR, attending international conference on education in circumpolar regions
	27407			Robinson		Viability of providing instruction in child's mother tongue
	27438-39			Robinson		Tax base of community controlled schools
	27446-48			Robinson		Request letters commenting on the evidence of Gillie, Yuzzie, Kakwi, Overvold, on education
	27455-56			Robinson		Curriculum not suitable to all students, needs of community
	27459-60			Robinson		BNA Act, guarantees for minorities
	27464-65			Robinson		Fairness of submitting transferred people to education system
	27470-75			Robinson		Education consequences of community control, rejection of melting pot concept in Canada, problem of disintegration
	27480-82			Robinson		Problem of short stay of teachers in community
177	27506-07	Aug. 25		Wood	NWT/AM	Distribution of gas to communities, choice between public agency or franchise
	27537-41			Purdy	NWT/AM	Jurisdiction of RCMP

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178	27584-85	Aug. 26	YK	Merrett	MVPI	How number of man months can vary in construction
	27627-28			Merrett Pritchard	MVPI	Impact of gas plants; cost
	27630-32			Merrett Pritchard		Limited scope of evidence
	27643			Scott		Stretch out of pipelaying period
	27647-47A			Merrett		Cost of stretching out construction to developer and consumer
	27655-58			Sigler Pritchard	NWT/AM	Effects of construction stretch out, evidence of Dixon
	27661			Merrett Pritchard		Asking of further opinions on construction stretch out
	27693			Runge	MVPI	Housing units in NWT compared to other areas in Canada
	27710-11			Runge		Growth rate in small communities
	27714-15			Runge		Male to female ratios, growth rates
179	27792-801	Aug. 27		Runge		Use of camp facilities for housing after completion, input of Housing Corporation in design, use of sewage disposal facilities after completion
	27817-22			Runge Lowling	MVPI	Question concept of home ownership, costs, compare northern and southern housing situation
	27829			Berger		Request evidence and cross-examination be as concise as possible
180	27864-67	Sept. 7		St. Eloi	MVPI	Employment and training preference to native people, no leniency offered to native people; non-union pipeline operation, reluctance of gas companies to hire from organized construction, qualified workers not hired because of union membership position of pipeline contractors
	27872			Hodson	MVPI	Employer members of Advisory Council built pipeline from Sarnia to Montreal
	27878-79			Nessel	MVPI	Skilled positions in pipeline construction filled by Canadian trained on-the-job
	27880-85			Hodson Nessel		Questions about preferential employment for northerners and quota system
	27895-97			Nessel		Failure of quota systems; rest of unions to supply manpower requirements
	27908-09			Nessel		St. Mary's Dam, natives admitted to union, admission fee paid by payroll deduction, job performance determined by contractor
	27911-15			Nessel Hodson		They support guidelines yet do not support priority placement for native peoples; guidelines conform with their notion of employment preference
	27928-34			Whiteford	MVPI	Northern preferential employment; Federal Government's jurisdiction; definition of northerner in Federal Government's guidelines; Gulf's program in Coppermine; flying workers to and from job-site
	27951-52			Nessel Marriott	MVPI	Comment on Hobart's study of Gulf Oil's project in Coppermine re non-union rigs and camps, degree of tolerance on a permanent operation compared to pipeline spread

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180	27964-65	Sept. 7	YK	St. Eloi	MVPI	Deduction of union fees from paycheck
	27973			Nessel	MVPI	Conduct after hours business of employer, not union
	27980-81			Bayly Whiteford	COPE/ITC MVPI	Hypothetical case about hunting and fishing has little bearing on collective agreements; success of bars in camps to prevent bootlegging
	27986			Dyck	MVPI	Criminal Code's position of searching for reasonable cause
	27997-98			Nessel Hodson	MVPI MVPI	Rates of wages same as that paid throughout Canada, high earnings from overtime
	28007-13			St. Eloi		Policy of union to determine when conditions are not suitable for work; disagreement between CAGPL and Foothills over construction start-up date
	28028-30			Whiteford Nessel Dyck		Unsuccessful training programs; cases where previous training was thought to be unnecessary
	28037-37			Hodson		Request that panel read "Trade Unions in Canada and the Northern Residents" and provide any comments in letter to Inquiry; closing remarks
	28055-56	Sept. 8		Sigler Bayly McCambly	NWT/AM MVPI	Limitations of Inquiry's terms of reference
181	28065-66	Sept. 8		McCambly	MVPI	Definition of northerner
	28093-96			McCambly		Skill level of natives, problems with achieving quotas; transient nature of pipeline work
	28106			McCambly		Integration of work crews
	28109			McCambly LeClair	MVPI	Native employment
	28146-52			Steeves Hollingworth Bayly	CAGPL Foothills COPE/ITC	Evidence presented by MVPI no reflection on their position; relevance of land claims to inquiry
	28156			Reimer	MVPI	Economic instabilities given that pipeline go through
	28171-73			Nousiainen Reimer	MVPI	Collective bargaining rights whether they have sought them; possibility of one big union
	28175-77			Reimer		Unionization of workers in exploration, development, gas plants, opposition from companies
	28181			Mitchell Reimer Nousiainen	MVPI	Thanking witnesses
	28193-98			McRae Breckenridge	MVPI MVPI	Inadequacies of present labour legislation, problem of conflict of Federal and provincial jurisdictions; composition of NWT Labour Committee
	28211-12			Bayly		Building Trades Council support construction except Mr. St. Eloi
	28231			McRae		Working long hours in construction camps to get time off to visit families
182	28241	Sept. 9		Forth	MHA/NWT	Appreciation expressed for role of Mrs. MacQuarrie
	28260			Clayton	MHA/NWT	Support for family unit more productive in child psychiatry than institutional care, comment on Celtic Report
	28350			Clayton		Did he serve on task force that prepared "Young People in Conflict With the Law"?
	28361			Berger		Closing remarks to McCombs, Clayton, Forth
183	28413-16	Sept. 10		Clarke	COPE/ITC	Native employment, closing statement
	28483-84			Kehoe Atcheson	COPE/ITC COPE/ITC	Cultural erosion, problems with southern psychiatry
	28496-97			Kehoe Atcheson		Impingement of whites on natives, cultural impact, definition of agree

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	28524-27			Atcheson		Corporations playing humanitarian role; native rights, land claims
	28537-39			Kehoe		Behaviour disorders of natives going unrecognized
185	28573	Sept. 15		Schaefer	COPE	Reduction of infant mortality due to provision of health services
	28582-86			Schaefer		Native organizations have rejected money in exchange for their land; comparable percentage of alcohol-related violence and accidents for Canada
	28592-93			Mayhall	COPE	Request for definition of "epidemiology"
	28607			Mayhall	COPE	Request for definition of "etiology"
	28613-17			Mayhall		Rate of caries among Inuit and white children, effect of tooth shape, diet, possibility of immunity
	28660-61			Hildes	COPE	Differences in health between children who are breast-fed and children who are bottle-fed
	28703			Cass	COPE	Percentage of school myopia
	28727-32			Schaefer	COPE	Rate of venereal disease, threat of increase due to development; long-term consequences of venereal disease; rate of gonorrhoea
	28780-82			Schaefer		COPE's alcoholism panel; alcohol prohibition
	28804-15			Hildes		Contingency plan for medical services; summary of impact of development on health and health services; request that panel outline realistic assessment of impact
186	28961-74	Sept. 16		Berger		Future renewable resource development in the North, research institutes, facilities required, "appropriate" technological development
187	29010	Sept. 17		Bruce	COPE	Rationing manufacture of alcohol during World War II
	29042-45			Bruce		Decline in alcohol consumption caused by development; white people's fear of native rights
	29054-63			Bruce	COPE	Money spent on bureaucrats rather than people of the land; reception of printed literature in north; natives drink to socialize not to escape, according to Brody; prohibition vs. local option
	29090-98			Falk	NWT IB/MA	Biographical information of Ian Brownlie; minority populations, separate category for Dene; Rough Rock school, education controlled by natives; preserving culture e.g. Indians and Eskimo, French Canadians, American Negroes, cultural genocide; Arabs in Israel
	29110-13			Falk		Endorsement of Nuremberg principles at the U.N.; self-determination in Soviet Union, Scandinavia, South Africa, Rhodesia
188	29129-30	Sept. 21		Searle	MVPI	Territorial Council's position on Dene land claim
	29145-51			Searle		Territorial Council's position on formation of a Mackenzie Valley Pipeline Authority
189	29281-83	Sept. 22		Nickerson	NWT/AM	Levies on pipeline and ancillary facilities in Pointed Mountain area; "discretionary" income from income tax
	29288			Hill	NWT/AM	University of Canada North
	29337			Scott	MVPI	Six months residency requirement in Inuvik before voting for mayor
	29351-57			Hill		Residency requirement to vote in a Federal election; decline in Inuvik's population; population of Canadian Forces Station in Inuvik

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	29400			Robertson	NWT/AM	Federal financing for capital cost to main sewer and water trunk lines
	29425-26A			Robertson		Estimate of current population of Inuvik
	29441-42			Harris	NWT/AM	Recalling where Fort Simpson community hearing was held
	29448-51			Harris Goulet	NWT/AM	Recreation directors' impact on community; construction of mass sports complexes
189A	29470-71			R. Worl	COPE	Identification of Inuit with land-based regional corporation in Alaska
	29495-99			Mrs. Worl R. Worl	COPE	Population of North Slope Borough; population of Barrow, Wainwright, Point Hope, Barter Island; health care in villages by health aides; non-Eskimo population of Barrow; Barrow's location within petroleum reserve No. 4
	29512-32			R. Worl Buchholdt	COPE	Impact of cash on native Alaskans, increased alcohol and drug use; restricting caribou hunting; coping with impacts of oil and gas development; decrease in hospital admissions due to village services; regional government in Barrow; other communities with control like North Slope Borough; members of North Slope Borough government and Board of Directors
	29535			Buchholdt	COPE	Residency requirements for pipeline workers to vote
	29552			Buchholdt	COPE	Liability of corporations to property taxation on land holdings; native people are minority in Alaska
	29559-62			Buchholdt Neakok Mrs. Worl	COPE COPE	Choosing between Regional Corporation and land claim
	29567-72			Neakok		Game management, geographic boundaries
190	29577	Sept. 23		Ganske	NWT/AM	"Commissioner's Land", land controlled by Territorial government for development
	29584-85			Ganske		Projects to cope with pipeline impact in Hay River, Inuvik
	29637-38			Sigler	NWT/AM	Stewart, Mayor of Hay River, evidence on Axe Point situation; Counsel's intention to cross-examine
	29680-83			Fogg Sigler	NWT/AM	Axe Point, principle staging area; status of Lefebvre's paper
	29687-93			Taylor	NWT/AM	Percentage of Hay River's population that is transient; predicting NWT population, if pipeline, based on Alaska's experience; keeping people out of Territories; limitations of his report; Hay River connected by rail to Edmonton
	29697			Berger		Number of workers needed to build pipeline, based on Alyeska projections
	29721-31			Robertson	NWT/AM	No agriculture or forestry project north of Fort Good Hope; converting public money into secondary industries; natural resources and creation of Manitoba, Alberta, Saskatchewan provinces
191	29743-44	Sept. 24		Hagglund	MVPI	Flat cars used to carry pipe
	29751			Hagglund		Purchase of pipe offshore and delivered via Skagway
	29802-04			Hagglund		Competition between excess equipment and existing carriers, no regulation to prevent this
	29812			Hagglund		Transportation co-ordinating agency to administer legislation ensuring that communities are supplied with goods during pipeline construction
	29816			Rohr	Citizen	Swearing-in Mr. Ray Rohr, from audience

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191	29838	Sept. 24	YK	Hawryszko	MVPI	Long-term plans for Axe Point by government on NTCL
	29871-72A			Hagglund		Thanks to the panel
192	29873	Oct. 4		Berger		Letter from C.G. Sutton about Ian Brownlie's qualifications; letters from Hildes, Cass, Schaefer
	29883			Baring-Gould	MVPI	1963 earthquake in Valdez
	29903			Baring-Gould		Fluor, subcontractor of Alyeska
	29907-08			Baring-Gould		Valdez construction workers employed on building pipeline or terminal
	29937			Baring-Gould		Request for information on Omar
	29941-44			Bennett Baring-Gould	MVPI	Valdez's financial situation secured by terminal
	29955-56			Baring-Gould		Doubling of income of heads of households; subsidized housing
	29963-65			Baring-Gould Bennett Ritter	MVPI MVPI MVPI	Appreciation expressed for their information on Valdez; Yukon Territory Native Languages project under auspices of Territorial government
	29968			Krauss	MVPI	Definition of Eyak requested
	29972-73			Krauss		Clarification of "orthography"
	30000			Ritter	MVPI	Request for definition of "cognitive"
	30013			Veale	CYI	Did the Language Rights Act in Alaska lessen impact of Alyeska Pipeline on native languages?
	30023-24			Ritter		Listing of languages from Fairbanks to Whitehorse on map; languages affected by Alcan route; villages where Loucheux is spoken along Dempster Highway
	30030-31			Ritter		Difference between Fort Rae, language retained and Old Crow, language deteriorated
	30046-52			Krauss Ritter		Responding to skeptical white Yellowknifer about future of native languages; native languages' capacity for survival; link between language and culture
	30061-62			Krauss Ritter		Corresponding in French with Dr. Louis Hamelin; thanks to panel
193	30171-86	Oct. 5		Berger		Discussion - argument phase
	30214			Berger		Land use plan , land claims inseparable
	30228-29			Berger		Agency definition
194	30329-30	Oct. 6		Berger		Potential for oil, gas discoveries greatest north of Tuktoyaktuk
	30369-71			Berger		Interior route - environmental impacts of oil pipeline, access roads
	30386			Berger		Alcan corridor discussion dismissed
	30443-43-A			Berger		Alyeska project labour force
	30445-46			Berger		Mackenzie Valley Research - oil pipeline gravel requirements
195	30482-85	Oct. 7		Berger		Gravel strip construction on delta, North Slope
	30498-99			Berger		Feasibility of gravel pad construction in winter
	30512-22			Berger		Calculation of winter construction productivity losses
	30566-73			Berger		Wind chill temperatures on North Slope - impact on labour productivity; CAGPL, FOOTHILLS positions re snow road construction, pipe laying dates
	30626-32			Berger		Statement by F.P. Moolin re two month Alyeska shut down due to Arctic winter, construction scheduling
	30648-52			Berger		Alyeska - length of Xmas shut-down
	30666-67			Berger		North Slope winter construction, consequences of failure to meet schedule deadline
195-A	30738			Berger		Alyeska pipeline - shut down temperature; methodology employed in calculation of winter construction period at Komakuk Beach
	30758-63			Berger		CAGPL position re construction shut-down; errors found in CAGPL frost heave tests results

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196	30780	Oct. 12	YK	Skinnarland	CARC	Stipulations in Alaska right-of-way agreement
	30790-93			Skinnarland		Single authority with mandate based on NEB Gas Pipeline Regulations; Skinnarland's change of opinion re regulating authority
	30810-13			Berger		Commission Council recommendations to be made public; request for public's opinion of proposals letters filed as evidence
	30828-29			MacLeod	CARC	Improper constitution of Water Boards
	30852			Thompson	CARC	Request that Steeves and MacLachlan take a position on question of enforcement for final argument
	30868-85			Thompson Skinnarland MacLeod	CARC CARC	Jurisdiction of authority not just north of sixty; unlimited mandate of NEB; third party contractor to enforce environmental stipulations; people with expertise tied up by industry in north; cost of project, government's guarantee; cost of projects always more than estimate;
	30898-99			MacLeod Thompson		Granting of water use applications
	30926-27A			Skinnarland		Quotes from Thompson's evidence re NEB'S competence to manage authority
	30958-59			Thompson		Ombudsmen, role in community, dealing with complaints
	30962-66			Thompson		Decisions made by ombudsmen; power of authorizing officer to waive stipulation; presence of ombudsmen on James Bay Project or Alaska Project
	30972-74			Berger		Comment on propriety of government's inner workings; availability of report on authority options
197	30978-79	Oct. 13		Ziskrout	CAGPL	Request that CAGPL respond to questions posed by Scott re CAGPL'S position on frost heave
	31022-25			Bergasse	MVPI	Hire North training program, average length of employment; request that Bergasse provide figures on employment status of Hire North trainees
	31028-36			Norton	MVPI	Accounting for decline in western arctic caribou herd population; shift in migratory routes; proximity of calving grounds to Prudhoe Bay pipeline route; possible in-migration of western arctic herd with Porcupine herd; 1970 census; JFWAT
	31048-49A			Norton		Contradictory roles of Alaska Pipeline: protecting environment and completing pipeline on schedule; handling the U.S.'s greater need for gas
	31067			Berger		Announcement about Father Funoleau's film "I was Born Here", invitation to attend
	31091			Rogol	MVPI	Right of citizens to challenge constitutionality of U.S. legislation
	31101-06			Rogol		Participation in Inquiry by native organizations, environmental groups, northern municipalities, northern business funded by government; independency of public advocate office
	31111			Rogol		Connection between groups and administrative decisions made by regulatory agency
	31154			Norton		Future of haul road north of Yukon to be decided by Alaska Growth Policy Council
198	31177-78	Oct. 14		Gates	MVPI	Letter from Ontario school boy requesting information about Eskimos, passed to Abe Okpik to answer
	31193-95			Sterling	MVPI	Human Rights Legislation
	31200-01			Sterling		Definition of "northern resident" applied by NWT government
	31223			Berger		Letter from Sam Stanley and compendium entitled "Toward Economic Development for Native American Communities," filed as exhibit
	31229			Witty	MVPI	Modernizing traditional economy
	31250-57			Witty		NWT labour force; unemployed are primarily native people; unrealistic prospects for wage employment; native peoples educated for undeveloped world; lack of native people employed on Pointed Mountain project, Pine Point

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198	31289-90	Oct. 14	YK	Witty	MVPI	Differences between mining industry and pipeline spread, union traditions
	31296			Carnew	MVPI	Time needed for Canada Manpower, Education and Employment Divisions to implement manpower delivery system if pipeline is built
	31301-03			Carnew		Comment on Unions' brief and on-the-job-training; must not train people for jobs they are not going to get
	31320-25			Gates	MVPI	Welfare as a form of subsidization to hunters and trappers similar to that given to fishermen and farmers; stigma attached to welfare
	31327-35			Berger		Reminding panel of his job; discussion on deadline of Commission Counsel report
	31337			Gates		Union expect welders and side boom operators to come from outside of Territories
	31362-63			Witty	MVPI	Communities with substantial economic base outside government support; employment for youth
	31375-75-A			Sterling	MVPI	Number of native northerners employed by federal government
198-A	31416			Christie	MVPI	Six Villages agreement, concerns only native villages on pipeline corridor
	31449			Nicholson	MVPI	Problems of Alaskan natives parallels those of Indian and Eskimo people in Canada
	31457-58			Schulz	MVPI	Entry into Alyeska - Union on-the-job training program, exposure to Operating Engineer craft; summary of Inquiry, last day of hearings
	31461-67			Evans	CARC	Discussion about Commission Counsel Report
199	31475	Oct. 15		Hollingworth	Foothills	When will Foothills be ready to react to Commission Counsel Report?
	31479-86			Berger		Final arguments of each participant; circulation of Commission Counsel Report
	31492-93			Steeves	CAGPL	Workability of CAGPL'S alternate design measures for test apparatus
	31496			Steeves		Zone of continuous permafrost, ice-rich soil
	31506			Beakhust	COPE	Cost of a snow goose, \$50.00
	31545-50			Beakhust Bayly	COPE COPE/ITC	Withdrawal of certain geographic areas from industrial development; native rights; CARC's support of international wildlife range, views of people of Old Crow; copies of discussion to be sent to Veale, Anthony, Evans, Bell
	31591			Zemansky	COPE	Must be ways of ensuring public awareness
	31606-11			Berger		His position on native land claims to be sent to heads of native organization, and Erasmus, Hardy, Arvaluk, Raddi, Johnson; concluding remarks marking the end of the Inquiry hearings
200	31621-22	Nov. 15		Berger		National Energy Board - ability to function as a geotechnical review board
	31634-35			Berger		Alternate pipeline routing through Yukon Territory
	31639-40			Berger		Value of placing Commission Counsel Recommendations before the Inquiry
	31696-99			Berger		CAGPL inconsistency - areas in which natives should be trained
202	31963-67	Nov. 17		Berger		Role to be played by natives in management of wildlife resources
	32056-57			Berger		Consideration of mailed in submissions
203	32090-93	Nov. 18		Anthony	CARC	Decline of Western Arctic herd, not necessarily caused by oil and gas exploration; decision to preserve wilderness and caribou or bring gas from Prudhoe Bay, value judgement
	32101-02			Anthony		Studies of coastal and interior routes by CAGPL, no studies done on Calef route, time does not allow
	32109-12			Anthony		Companies' limit in predicting cumulative impact of pipeline
	32179-83			Veale	CYI	Completion of Dempster Highway by 1978; impact of Highway on Caribou
204	32303	Nov. 19		Scott	MVPI	Response to request that Territorial Government be allowed to speak
	32348-53			Berger		Concluding remarks, adjournment of Inquiry

BIRDS - AS A RESOURCE

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98	14863-64	Dec. 8	YK	Scott Gunn	MVPI CAGPL	Use as food by native people in north, James Bay
100	15261	Dec. 10		Bayly Hayden	COPE/ITC Foothills	Spring hunting, Richards Island
112	17075	Jan. 20	IN	Bliss	GPC-D	Waterfowl as food source in Delta area
121	18446-47	Feb. 10		Barry	COPE/ITC	Snow geese - food source for Tuktoyaktuk residents
148	22644	Apr. 29	YK	Rushforth	NWT IB/MA	Bird hunting, grouse, ptarmigan, ducks, Great Bear Lake region

BIRDS - BREEDING AND NESTING

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89	13411-12 13415-44 13420-21 13433	Nov.18	YK	Gunn Gunn Gunn Gunn	CAGPL	Disturbance studies, breeding and nesting birds Disturbances of breeding and nesting birds, sensitive areas Noise disturbance studies, nesting sites, Lapland longspur Yukon coast as nesting area
93	14111-24 14126-96	Dec.1		Gunn Gunn		Disturbance from compressor stations, aircraft; impact on nesting birds; studies Studies, species - habitat, life histories; population; sensitivity to disturbances;
94	14212-23	Dec.2		Gunn		Delta region, waterfowl; Cross Delta Route change
97	14840-57	Dec.5		Gunn		Snow geese, swans, golden plover, Mackenzie Delta, North Slope, Banks Island, critical areas
98	14886-914 14987-91	Dec.8		Gunn Gunn		Effects of oil spills, siltation in ponds, noise tests, aircraft, hovercraft Snow geese, recent breeding rates
99	15125-27	Dec. 9		Finney	Foothills	Locating sites; relocating facilities, route
100	15196-200 15330-332 15343-44	Dec.10		Bouckhout Finney Bouckhout Finney Bouckhout	Foothills	Avoidance of significant areas; safeguards Holmes Creek crossing, peregrine falcons in area No gravel mining, Mackenzie River islands, bars, important bird areas
115	17492-93	Jan. 23	IN	Bayly Faulkner	COPE/ITC GPC-D-S	Niglintgak gas field, aircraft disturbance of birds in Kendall Island Bird Sanctuary
116	17651	Jan. 24		Rempel	GPC-D-I	Displacement of nesting birds by construction; snow goose nesting colony on Kendall Island
117	17765	Jan. 26		Webb	GPC-D	Stipulations on activities during nesting season, fall staging season in Kendall Island Bird Sanctuary
121	18440 18444-46 18449 18455 18458-61	Feb. 10		Barry Barry Barry Barry Barry	COPE/ITC	Migrant birds - principal nesting grounds in Beaufort Sea and littoral zone Migrant bird nesting areas sensitive to oil spillage; snow geese nesting grounds Murre nesting grounds Importance of Delta re nesting grounds, fall staging areas Taglu oil well study - effects of noise levels on bird nesting habits
124	18982	Feb. 13		Milne	COPE/ITC	Impact of oil contamination of coastal nesting habitats on bird population
133	20133 20173-74	Mar. 23	YK	Rowe Gunn	CAGPL CAGPL	Impact of cross-Delta route Snow goose nesting; Baillie Island when Banks Island not usable
135	20445-48 20517	Mar. 25		Gunn Gunn		Swan nesting; west side, Shallow Bay, also ducks, shorebirds; nesting periods; importance of sedge areas Kendall Island Bird Sanctuary

BIRDS - DISTURBANCE

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82	12145-54	Nov. 6	YK	Dabbs	CAGPL	Impact of aerial reseeding program; staging snow geese congregation at newly seeded sites; scaring of birds off nests, loss of eggs to predators
89	13507	Nov.18		Hemstock	CAGPL	Greatest concern; controls of noise
90	13630-37	Nov.19		Dabbs		Revegetation aerial seeding, scheduling
93	14101-24	Dec.1		Gunn	CAGPL	Peregrine falcons; compressor station noise, airstrips; construction activities; proximity to nesting sites; studies on Black Brants, Arctic Terns, Glaucous Gulls, Snow geese; energy loss due to disturbance; frequency of flights; feeding changes
	14126-96			Gunn		Studies; species; sensitivity; impact on breeding and nesting; aircraft harrassment, snow geese staging and nesting; noise experiments
94	14283	Dec.2		Jakimchuk	CAGPL	Bird disturbance data, altitude of aircraft flights; flight frequency
96	14690-704	Dec.4		Gunn		Studies, helicopter and aircraft over flights; flight height restrictions; long-term disturbances; gyrfalcons and geese - height of aircraft
97	14795-808	Dec.5		Gunn		Access and overflight restriction periods, North Slope, Mackenzie River islands
	14812-16			Templeton Jakimchuk	EPB	Harassment, overflights
	14835-60			Gunn		Reactions of different species; susceptibility of species; North Slope, Mackenzie Delta
98	14897-914	Dec.8		Gunn	CAGPL	Noise tests, North Slope, compressor, aircraft; peregrine falcon nesting areas; Shallow Bay dredging; increased human access
99	15110-11	Dec. 9		Bouckhout	Foothills	Possible measures to minimize compressor station impact
	15150-52			Finney	Foothills	Overflights, government regulation
100	15215-16	Dec. 10		Finney		Planned studies, barging
	15238-39			Bouckhout		Peregrine falcons, during duplication of data collection; accidental encounter by Foothills field groups
	15261-65			Finney Bouckhout		Aircraft overflight restrictions, recommendations
107	16338	Jan. 12		McT-Cowan	EPB	Dr. Gunn's studies - disturbance of snow geese by aircraft flights
	16390-94			McT-Cowan		Over-flight tests; aircraft type; bird species; noise simulation; elder ducks; energy expenditure - physiological effects, respirometer
109	16615-17	Jan. 14		McT-Cowan		Air traffic; harassment; falcon nests - knowledge of nest location, accessibility; CWS regulations; information re: construction crews, general public awareness
	16683			Craik	EPB	Need for a long term study based on actual aircraft traffic present now in the Delta
117	17764	Jan. 26	IN	Webb	GPC-D	Range of disturbance, critical bird areas in Kendall Island Bird Sanctuary
	17790-92			Webb		Disturbance by gas plant emission, Kendall Island snow goose nesting colony; North slope feeding areas, snow geese disturbed
122	18564-72	Feb. 11		Stein Barry Sergeant	COPE/ITC COPE/ITC COPE/ITC	Oil spills - impact on, susceptibility of birds, recovery period after spill
	18578-81			Barry	COPE/ITC	Susceptibility of birds to disturbance from delta construction
124	18979	Feb. 13		Milne	COPE/ITC	Impact of marine oil blowout, coastal contamination on bird populations
133	20128	Mar.23	YK	Rowe	CAGPL	Minimizing disturbance from compressor station operation on Delta
134	20335-39	Mar.24		Gunn	CAGPL	Disturbance of moulting waterfowl in Delta; impact of noise from Tununuk Junction compressor station
135	20446	Mar.25		Gunn		Nesting, moulting waterfowl, shorebirds, west side, Shallow Bay
138	20924	Apr.6		Stephen	MVPI	Effects of disturbance on land use changes

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C-50	4890	May 11	VAN	Stace-Smith	Citizen	Disturbance caused by construction, water levels, roads, airfields, oil and chemical spills; breeds affected
193	30100	Oct. 5	YK	Hernandez	EPB	Recommendation - aircraft be prohibited within 2 miles of Mackenzie, Camsell bend to Inuvik May 1 - June 15; Brachett Lake area - minimize air traffic May 15 - Oct. 15, minimum altitude 2000 feet
194	30360-65	Oct. 6		Hemstock	CAGPL	Main impact - oil, gas pipeline construction - increased land, air travel, access
195	30493-94	Oct. 7		Byers	Foothills	Scheduling of gravel pad construction to limit disturbance

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XV	1723-24	Mar. 11	YK	Dau	CAGPL	Relocation of Prudhoe Bay Supply Line
XXXIV	4490-91	Apr. 22		Williams	CAGPL	Disturbance to migratory and shore birds
41	5333	May 20		Hurd	CAGPL	Staging and moulting of migratory birds
42	5415	May 21		Fielder	CAGPL	Birds run over by A.C.V.'s
46	6045-47	June 2		Templeton	EPB	Serious impacts; environmental matrix
47	6170-93	June 3		McT-Cowan	EPB	Environmental impact and recommendations
48	6388-94	June 4		McT-Cowan		Noise harassment affects survival
C-16	1523-24	July 13	OC	P. Benjamin	Citizen	Nesting grounds along Arctic Coast
51	6808-09	Aug. 11	WH	Hemstock	CAGPL	Winter construction when most are absent; critical areas have been identified; regulations re: noise and aircraft disturbance; education of construction workers
52	6934-35	Aug. 12		Banfield	CAGPL	Comparative impacts of alternate and prime routes
	7004-05			Banfield		Arctic productivity
54	7473	Aug. 14		Weedon	CARC	Mainline route; impact on nesting and migrating birds
	7490-91			Weedon		Fort Yukon corridor; Yukon River near Canadian border; Trumpeter swans, Yukon Flats; Peregrine Falcons
	7507-08			Weedon		Off shore corridor; noise caused by aircraft construction, borrow extracting, compressor station, impact on moulting sea ducks; changes caused in regular feeding and nesting activities, oil or fuel spills would have fatal effects; construction scheduling
C-23	2306-07	Aug. 14	WH	R. McKaymie	Citizen	Adaptability
	2316-24			A. Fekete	Citizen	Impacts on waterfowl
63	9005	Sept. 17	YK	Beer	Foothills	Compressor station noise; some birds will nest around compressor stations
71	10640-41	Oct. 14		Rayly Longlitz	COPE/ITC MVPI	Canadian Wildlife Service; issue of bird sanctuary permits
80	11883	Nov. 4		Hemstock	CAGPL	Upland borrow site preferable
	11903			Williams	CAGPL	Ornithologists advised against use of bars in Mackenzie as borrow sources
81	11964	Nov. 5		Minning	CAGPL	Impact potential of Shingle Point borrow site
	11967-69			Dabbs	CAGPL	Effects of aerial reseeding on birds
82	12145-54	Nov. 6		Dabbs		Interference by aerial reseeding program
	12265			Hemstock		Expectation of complaints re surveillance flights; impact on birds
84	12557	Nov. 8		McCart	CAGPL	Burbot populations as bird food in water sources
85	12622	Nov. 12		Bayly McCart	COPE/ITC	Water withdrawal, North Slope lakes
	12726			McCart Hemstock		Impact assessment less specific, river crossings

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89	13398-444	Nov.18	YK	Gunn	CAGPL	L.G.L. baseline studies, aerial and ground surveys, migration, disturbance, sensitive regions, interior versus coastal route, over-flights, slide show
90	13599-603	Nov.19		Dabbs Gunn		Damage to revegetated areas by eating
	13713			Dabbs		Birds eating revegetation seed
91	13834	Nov.20		Marshall	CAGPL	Summary of CAGPL ornithological recommendations
93	14112-24	Dec.1	YK	Gunn	CAGPL	Disturbance studies; habitats and nesting sites; populations; species and sensitivities
	14129-96			Gunn		Impact of construction, increased noise and access to bird populations and species
94	14320			Berger		Dr. Gunn's preference for an interior route; Dempster Highway
	14328			Gunn		Direct impact on birds of Dempster not so great
97	14832-60	Dec. 5		Gunn		Numbers involved, various impacts; snow geese, swan, golden plover annual movements; importance of Delta to birds; cash value of snow geese, California habitat; critical bird areas, Delta, Arctic Coast
98	14866-919	Dec. 9		Gunn Hemstock	CAGPL	Sensitive areas, long term impact results, avoidance; oil spills; compressor stations at DEW line sites, North Slope; oil spill effects on waterfowl; ponds, lakes on North Slope, siltation; gravel mining, effect on gyrfalcons, noise experiments, compressors, aircraft; peregrine falcon noise sensitivity, hunting ranges, minimizing impact of summer repairs; bottom-sampling barge incident, Shallow Bay; waterfowl eating revegetation; impact of increased access
100	15328-31	Dec. 10		Finney	Foothills	Holmes Creek crossing relocation, birds in area
101	15398-99	Dec. 11		Finney		Need for study on raptor nesting, continual surveys on seasonal activities of birds; impact of barging on waterfowl; need for better records re bird kills
102	15616-60	Dec. 12		Novakowski	CARC	Protection in north, regulations, potential impact of pipeline, rare and endangered species
112	17048-60	Jan. 20	IN	Bliss	GPC-D	Nesting on tundra, ptarmigan; Mackenzie Delta area; importance of Lapland longspur; Eskimo Lakes Fingers area, waterfowl use; Tuk peninsula, feeding, nesting; Kendall Island Sanctuary boundaries; snow geese nesting, feeding, staging, Banks Island, Richards Island; population dynamics, Delta region.
	17068			Bliss		Bird harvest, Inuvik Tuktoyaktuk.
117	17797	Jan. 26		Wopnford	GPC-D-S	Contingency plans, birds away from areas of hydrocarbons
120	18327-32	Jan. 29		Martell	COPE	Distribution of birds in Delta; importance of ptarmigan and waterfowl
129	19664-69	Feb. 19		Speller	MVPI	Protection of migratory birds; Migratory Birds Treaty Act, bird sanctuaries
130	19750	Mar. 16	YK	Hemstock	CAGPL	Barry (CWS), Guinn (CAGPL), concerns re cross-Delta route
133	20143-45	Mar.23		Gunn	CAGPL	Delta studies, impact of, recommendations re cross-Delta route
	20175-77			Gunn		Comparing cross-Delta, old prime, interior, Barry routes re impact on birds
134	20209-13	Mar.24		Gunn		Preference for erosion prevention technique, west side, Shallow Bay
	20332-39			Gunn		Preference for circum - Delta route over cross-Delta; moulting areas for waterfowl, Shallow Bay; impact from compressor station; Tununuk Junction, recommendation re noise levels
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134	20347	Mar.24	YK	Gunn	CAGPL	If cross-Delta, coastal routes built in summer, impact must be re-assessed
135	20508-10	Mar.25		Gunn		Possible impacts of Niglintgak supply lateral
138	20920-41	Apr.6		Stephen	MVPI	Migratory birds, protection; Migratory Bird Sanctuary permit; flyways; breeding populations, effects of disturbance or land use changes; National Audobon Society, National Wildlife Federation, membership; hunting; enforcement program, compliance with Migratory Birds Convention Act; studies of migratory birds, Migratory Bird Ecological Assessment Group
C-52	5393-96	May 13	CAL	C. Osborne	Citizen	Importance of northern habitat
C-67	7725-27	June 8	HAL	P. Keddy	Citizen	Monetary value of migratory birds to southern Canadians, study done by University of Saskatchewan

BIRDS - HABITAT

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89	13410 13423-44	Nov. 18	YK	Gunn Gunn	CAGPL	While migrating, Mackenzie River Sensitive areas, breeding, nesting, moulting, migrating; disturbance; slide show
90	13653	Nov. 19		Gunn		No concern for loss due to other corridor pipeline construction
93	14132-96	Dec. 1		Gunn		Waterbodies used by waterfowl; disturbance, noise; water withdrawal; marshy shorelines, staging areas
97	14834-60	Dec. 5		Gunn		Mackenzie Delta, North Slope, California, South America, U.S.A.
98	14889-914	Dec. 8		Gunn		Small ponds, lakes North Slope, critical areas, siltation: active flood plains, gravel mining; gyrfalcons, nest-sites; compressor station effects aircraft noise, peregrine falcon hunting ranges; dredging, Shallow Bay; revegetation; increased access by man
99	15111	Dec. 9		Bouckhout	Foothills	Overflight restrictions, contingency plans to minimize impact on waterfowl staging areas, flight paths
100	15215-16 15322-25	Dec. 10		Finney Finney	Foothills	Future studies South-east of Kendall Island Bird Sanctuary; possible relocation of gas scrubbing plant
102	15636-44	Dec. 12		Novakowski	CARC	Peregrine falcon, whooping crane, eskimo curlew
116	17651	Jan. 24		Rempel	GPC-D-I	Disturbance of road construction; effects of gas plant sound emissions on snow goose
122	18565-72	Feb. 11	IN	Barry	COPE/ITC	Colonial nesters - feeding, nesting, moulting sites
133	20144	Mar.23	YK	Gunn	CAGPL	Mackenzie Delta
135	20646-48	Mar.25		Gunn		Use of west side of Shallow Bay by waterfowl, shorebirds; importance of sedge lands

BIRDS - MIGRATION

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89	13406-08 13417 13429-31 13433 13442-44 13508	Nov.18	YK	Gunn Gunn Gunn Gunn	CAGPL	Studies, Beaufort Sea coast, Mackenzie region Disturbance studies, migrating snow geese staging areas Disturbance of staging snow geese by aircraft recommendations Yukon coast staging area for snow geese, migration route for many birds
93	14125-60 14172-96	Dec.1		Hemstock Gunn	CAGPL	Snow geese, Banks Island to Delta and North Slope Reduction of flights, migration periods, North Slope Species; rates and flight paths; life histories; sensitivity to disturbances
94	14330-31	Dec.2		Gunn Banfield	CAGPL	Snow geese, staging areas, alternative staging areas; feeding and habitat requirements prior to migration; disturbance; noise experiments Dempster Highway crosses the grain of normal migration patterns

BIRDS - MIGRATION (continued)

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97	14795-820	Dec. 5	YK	Templeton Gunn	EPB	Recommendations to enquiry re impact, enforcement
	14837-60			Gunn		Snow geese, swans, golden plovers, important areas, Mackenzie Valley, North Slope
98	14872-84	Dec. 8		Gunn		Effects of compressor station, airstrip, gravel mining, stockpile sites, North Slope
	14886-89			Gunn		Effects of oil spills on waterfowl
100	15215-16	Dec. 10		Finney	Foothills	Future studies
	15261-65			Finney Bouckhout		Spring bird hunting, Richards Island; aircraft overflight restrictions
108	16539	Jan. 13		McT-Cowan	EPB	Use of the wetlands of the Ramparts River area by geese; impact of looping and continuous disturbance
121	18438-55	Feb. 10	IN	Barry	COPE/ITC	Bird migration routes into, out of the Beaufort Sea and littoral zone, Arctic Islands; importance of open water leads along migration routes; survey methods used to determine migrant populations; importance of Mackenzie Delta, Kendall Island Bird Sanctuary - nesting, staging areas for southern migration
122	18565-69	Feb. 11		Barry		Susceptibility of migrant colonial nesters to oil spills
	18580-81			Barry		Impact of noise disturbance on bird staging areas in Delta
	18587-88			Barry		Impact of oil spill in Delta snow geese staging areas during fall migration period
133	20145	Mar. 23	YK	Gunn	CAGPL	Snow geese, Delta, North Slope areas
135	20441-50	Mar. 25		Gunn		Geese in Shallow Bay, other waterfowl; importance of sedge land
136	20615	Mar. 26		Gunn		Possible impact on waterfowl of "DEW line route", north Slope

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XXV	2960	Apr. 8	YK	Clark	CAGPL	Route change - raptor nesting area
47	6184-86	June 3		McT-Cowan	EPB	Their tolerance to construction disturbance
48	6391	June 4		McT-Cowan		Minimum aircraft altitudes
83	12354	Nov. 7		Scott Hemstock	MVPI CAGPL	Hard rock borrow sites often near raptor nesting sites
89	13419-20	Nov. 18		Gunn	CAGPL	Disturbance studies, golden eagle, rough-legged hawk, peregrine, gyrfalcons
	13427			Gunn		Human disturbance, nesting gyrfalcons
	13430			Gunn		Nests on interior route
93	14129-30	Dec. 1		Gunn		Sample size for baseline studies
	14163-71			Gunn		Canning River is an area for raptors, discussion as to definition of 'rare and endangered species'
	14188-96			Gunn		Gyrfalcons, effects of disturbance during nesting periods; peregrine falcons in the Campbell Hills; construction activities
94	14220-23	Dec. 2		Gunn		Campbells, Malcolm Delta; distance of pipeline from nesting sites; Shingle Point
96	14702-04	Dec. 4		Gunn		Raptors along the Prime Route and Fairbanks corridors; height of aircraft - sensitivity of gyr falcons
98	14894-95			Gunn		Effects of bed-rock mining, gyrfalcon nesting areas
99	15125-27	Dec. 9		Finney	Foothills	Location of nesting sites; facility sites, route, relocation
100	15238-39			Bouckhout	Foothills	Peregrine falcon nest locations, difficulty acquiring data; accidental encounter, Foothills field groups

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101	15398	Dec.11	YK	Finney	Foothills	Need for study of raptor nesting south of Norman Wells
102	15593	Dec.12		Peterson	CARC	Campbell Lake-Dolomite Lake IBP site proposed for protection of falcon nests
136	20614	Mar.26		Gunn	CAGPL	Positive effects of using "DEW line route", North Slope
193	30090-91	Oct.5		Hernandez	EPB	Aircraft should avoid active eyries of raptors Mar. 1-Sept.1, flight altitudes above 2000 ft.
	30094-97			Hernandez		Prohibition of ground activities within 2 miles of active raptor zone May 1-Sept. 1

BIRDS - OTHER

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47	6190	June 3	YK	McT-Cowan	EPB	Buff breasted sandpiper, confined breeding range
89	13411	Nov. 18		Gunn	CAGPL	Lapland longspur, disturbance studies
	13415			Gunn		Glaucous gulls, Arctic terns, disturbance studies
	13427			Gunn		Disturbance, overwintering ptarmigan, nesting gyrfalcons
90	13636	Nov. 19		Gunn		Disturbance of finches by aerial seeding
122	18657-58	Feb. 11	IN	Barry	COPE/ITC	Use of explosives, foam coating of oil to deter birds from oil spills

BIRDS - POPULATIONS

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89	13406-07	Nov.18	YK	Gunn	CAGPL	At Nunalik Spit, Yukon, Mackenzie region
	13419			Gunn		Snow geese, Mackenzie Delta 1975
93	14110-24	Dec.1		Gunn		Effect of a loss of a nest site, hatch on peregrine population; effects of disturbance on reproduction abilities, studies; Black Brant, Arctic Tern; Glaucous Gulls; snow geese
	14125-29			Gunn		Studies; study of distribution and number in areas; species; migration; density of species; nesting; sample sizes
	14170-96			Gunn		Snow geese; numbers, staging areas, alternative staging areas; disturbance cases e.g. storms, man construction activities; Lapland Longspur
96	14696-700	Dec.4		Gunn		Density of species in the Old Crow flats; North-west Project Study Report; counts of waterfowl
97	14836-60	Dec.5		Gunn		North Slope, Mackenzie Delta
98	14987-91	Dec.8		Gunn		Recent population, breeding rates of snow geese
99	15111	Dec. 9		Bouckhout	Foothills	Possible short term impact on waterfowl populations
	15182			Finney	Foothills	Waterfowl censuses good data base for community laterals impact assessment
100	15205-06	Dec. 10		Finney		Waterfowl, from field studies
	15215-16			Finney		Future studies, community lateral routes
	15321-25			Finney		Impact of Taglu gas plant; concentrations in Kendall Island Bird Sanctuary
121	18438-55	Feb. 10	IN	Barry	COPE/ITC	Bird populations, nesting sites, (migration routes used) in the Beaufort Sea and littoral zone, Arctic Islands; survey methods to determine migrant populations; population susceptibility to oil spills at nesting sites, along migration routes; importance of Mackenzie Delta, Kendall Island Bird Sanctuary nesting sites, staging areas for southern migration
	18458-59			Barry		Taglu oil well drilling site - impact of noise from equipment, aircraft on bird nesting habits
133	20144-45	Mar. 23	YK	Gunn	CAGPL	Population studies, cross-Delta route

BIRDS - RARE AND ENDANGERED SPECIES

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XV	1724	Mar. 11	YK	Dau	CAGPL	Route, selection of Interior route
XVIII	2098-02	Mar. 14		Dau Scott	MVPI	Bird-caribou considerations in selecting Prudhoe Bay Supply line route; lack of priorities
47	6185-90	June 3		McT-Cowan	EPB	Coastal route rarest of habitat form (falcons)
60	8509	Aug. 22		Bouckhout	Foothills	Peregrine falcon, change of Foothills route near Norman Wells
54	7491	Aug. 14	WH	Weedon	CARC	Peregrine falcon; Yukon River near the Canadian Border; Fort Yukon Corridor
81	12069-70	Nov. 5	YK	Bayly	COPE/ITC	Peregrine falcons at gravel site outside Inuvik
83	12421	Nov. 7		Hemstock	CAGPL	Nest site near borrow pit as reason for alternative site
89	13408 13419-20 13428 13431	Nov. 18		Gunn Gunn Gunn Gunn	CAGPL	Studies Disturbance studies, gyrfalcons, peregrine falcons Compressor and valve stations near nesting sites Nesting sites, peregrine falcons, coastal route
93	14101-24 14129-30 14169-71 14188-96	Dec. 1		Gunn Gunn Gunn Gunn	CAGPL	Peregrine falcon; protection from construction activity; sensitive season; studies; nesting sites, Canadian Wildlife Service; location and number of nestings along pipeline route; Campbell Hills; compressor stations, airstrips re: disturbance Sample size re: studies; sensitivity to noise and disturbances; habitat; baseline studies Discussion as to definition of 'rare and endangered species' Gyrfalcons, disturbance during nesting periods; peregrine falcons in the Campbell Hills; construction activities
94	14221-23	Dec. 2		Gunn		Compressor station location; proximity to nests; Campbell Hills, Malcolm Delta, Shingle Point
95	14409-10	Dec. 3		Gunn	CAGPL	Peregrine falcon nests - number and distance from the old prime route and cross Delta route, compressor station air strip
97	14798 14836-38	Dec. 5		Gunn Gunn		Overflight restrictions, nesting sites, Mackenzie Valley, recommendations Peregrine falcon nests, numbers
98	14868 14904-08	Dec. 8		Gunn Gunn		Long term effects on peregrine falcons Peregrine falcon, sensitive radius, hunting habits, studies; keeping distance during construction, timing; pipe repairs, impact
99	15049 15126 15176	Dec. 9		Hemstock Finney Finney	CAGPL Foothills	Monitoring Recommended realignment, HolmesCreek, peregrine falcon nest Recommendation re peregrine falcon nesting site, Norman Range
100	15238-39 15328-30 15369-70 15373	Dec. 10		Bouckhout Finney Finney Scott Finney	Foothills MVPI	Peregrine falcon nest locations, difficulty obtaining data; accidental encounter, Foothills field groups Holmes Creek crossing relocation, peregrine falcons in area Possible impact on whooping cranes, Yellowknife/ Pine Point lateral Moving peregrine falcon nests
102	15633-44 15653-60	Dec. 12		Novakowski Novakowski	CARC	Peregrine falcon, Eskimo curlew, whooping crane, present status, potential impact Peregrine falcon, southern migration hazards; recommendations re management, preservation

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102	15707-11	Dec. 12	YK	Berger Novakowski	CARC	Peregrine falcon populations in other countries; Eskimo curlew perhaps extinct; discussion of "rare and endangered"; whooping crane
107	16296	Jan. 12		McT-Cowan	EPB	Hudsonian godwit, buff breasted sandpiper - favour for the Interior route
108	16567	Jan. 13		McT-Cowan		Areas known to the CWS unspecified to others to ensure the survival of the whooping crane, gyrfalcon, peregrine falcon
109	16615-17	Jan. 14		McT-Cowan		Air traffic harassment; protecting falcon nests from disturbance; measures taken in Great Britain to protect nesting sites; CWS regulations; education and enforcement
114	17349 -50	Jan. 22	IN	Bayly	COPE/ITC	Imperial want to identify concerns re peregrine falcons in Campbell Lake area.
133	20133	Mar. 23	YK	Rowe	CAGPL	Impact of cross-Delta route
C-64	7265	June 3	OTT	Mosquin	Citizen	Peregrine falcon, Eskimo curlew, Hudsonian godwit, whooping crane

BIRDS - WATERFOWL

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XXV	2956	Apr. 8	YK	Clark	CAGPL	Route change near Driftwood River
41	5354-60	May 20		Lucas	CARC	Snow geese, sensitivity to aircraft
46	6067-68	June 2		Craik	EPB	EPB report #1 - 1971 survey
	6072-73			Craik		EPB report #3, appendix III
	6087			Craik		Cooperative research: EPB and CWS
47	6170-93	June 3		McT-Cowan	EPB	Environmental impact predictions and recommendations
55	7656	Aug. 15	WH	Banfield	CAGPL	Koyukuk River; Fairbanks Corridors; breeding area
75	11035	Oct. 20	YK	Weedon	CARC	Studies on black brandt in the Prudhoe Bay - Colville River Delta area
	11123			Weedon		In worst case conditions harming large number of Old Squaws and Eider Ducks
81	11989	Nov. 5		Hemstock	CAGPL	Possible relocation of two compressor stations presently near snow geese staging area
82	12151-52	Nov. 6		Dabbs	CAGPL	Staging snow geese - attracted to newly seeded areas
85-A	12752-53	Nov. 12		McCart	CAGPL	Nine-spined stickleback as loon food resource
89	13403-08	Nov. 18		Gunn	CAGPL	Aerial surveys, reports, ground surveys, reports; baseline studies; migration, reports
	13415-44			Gunn		Disturbances, sensitive areas
	13442-44			Gunn		Snow geese migration, feeding, noise studies
90	13599-603	Nov. 19		Dabbs		Snow geese, eating grass on revegetated areas
	13636			Gunn		Eating revegetation seeds
93	14110-24	Dec. 1		Gunn		Disturbance from aircraft on nesting eider ducks; snow geese; helicopter and fixed wing aircraft studies variations in disturbance
	14132-41			Gunn	CAGPL	Water habitats; experiments on North Slope water-bodies; impact of water withdrawal
	14149-60			Gunn		Simulated compressor station noise disturbance studies on staging geese; impacts, barge and wharf disturbance
	14171-96			Gunn		Snow geese, staging areas; alternative staging areas; impact and reaction to aircraft noise and disturbance; noise experiments
94	14212-33	Dec. 2		Gunn		Delta breeding areas Cross Delta Route Change
95	14414-16	Dec. 3		Hemstock	CAGPL	Work stoppages due to geese staging; critical path approach
	14430-31			Banfield	CAGPL	Environmental reason for work stoppage - geese staging; regulations
96	14690-704	Dec. 4		Gunn		Counts; sensitivity to disturbance - aircraft, helicopter noise; flight heights

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97	14795-808	Dec. 5	YK	Gunn	CAGPL	Access and overflight restrictions, Yukon coastal spits, barrier beaches, Mackenzie River islands
	14837-60			Gunn		Snow geese, swans, annual movements, important areas, Mackenzie Delta, North Slope
98	14872-919	Dec. 8		Gunn		Snow goose staging areas near compressor stations, North Slope; effects of oil spills; siltation of small ponds, lakes; noise experiments; bottom-sampling, Shallow Bay; eating revegetation; increased access, impact
	14987-91			Gunn		Management programme; snow geese, recent breeding rates
99	15049-50	Dec. 9		Hemstock		Monitoring snow geese
	15110-11			Bouckhout	Foothills	Possible measures to minimize impact of compressor station on birds
	15125-27			Finney	Foothills	Surveying breeding areas, populations, facility sites; possible problem areas
	15183			Finney		Studies to be done for community laterals
100	15195-200	Dec. 10		Bouckhout		Significant staging and nesting areas, avoidance, relocation, safeguards
	15205-06			Finney		Population estimates
	15215-16			Finney		Future studies on community lateral routes
	15319-25	Dec. 10		Finney		Taglu gas plant located in Kendall Island Bird Sanctuary; impact on birds; possible relocation of scrubbing plant
	15330-32			Finney		Holmes Creek crossing relocation, waterfowl in area
	15343-44			Finney		No gravel mining, Mackenzie River islands, bars, important breeding areas
101	15398-99	Dec. 11		Finney		Need for study re impact of barging on waterfowl
102	15672-74	Dec. 12		Novakowski	CARC	Impact of oil spill, dispersant, on ducks
106	16277	Dec. 18		Marshall	CAGPL	Snow goose surveys in "Ornithological Studies, Cross-Delta Route", December 1975
109	16703	Jan. 14		Wilimovsky Berger	EPB	Snow geese; aircraft flight regulations
	16714-17			McT-Cowan	EPB	Quantification of wildlife, 50 dollars per bird
C-28	2804	Sept. 10	WR	Williams	Citizen	Danger if pipeline is damaged
112	17085	Jan. 20	IN	Bliss	GPC-D	Sedge lands, Ellis and Langley Islands important for fall feeding
	17103-04			Bliss		Horsetail as food for waterfowl
	17110			Bliss		Important nesting - feeding area east of Kendall island Sanctuary
	17119-22			Bliss		Importance of certain Delta vegetation to geese, conflict with development; grazing by geese, regeneration
116	17651-53	Jan. 24		Rempel	GPC-D-I	Effect of gas plant sound emissions on snow goose nesting colony, Kendall Island; goose hunting by communities; effect of development
	17684			Rempel		Effect of oil spill on ducks, birds, fish and marine mammals
	17751			Bayly Webb	COPE/ITC GPC-D	Comparison between whales and eider ducks, response to disturbance
117	17764	Jan. 26		Webb		Snow geese, critical staging areas and proposed facilities, disturbance
	17790-97			Webb Wopnford	GPC-D-S	Snow geese nesting colony south of Kendall Island, disturbance by gas plants, nesting on Banks Island, migratory flight to Hay-Zama Lakes area; "The Study of the Distribution and Movements of Snow Geese, Other Geese and Whistling Swans on the Mackenzie Delta, Yukon North Slope, and Alaskan North Slope in August and September 1975"; contingency plans to protect birds, harassment
	17794			Goudge	MVPI	Importance of Kendall Island Bird Sanctuary to geese, swans, other waterfowl, impact of processing plant

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121	18438-52	Feb. 10	IN	Barry	COPE/ITC	Bird populations, nesting sites, migration routes used in the Beaufort Sea and littoral zone, Arctic Islands; importance of open water leads along migration routes; susceptibility to oil spills at nesting sites; importance of Mackenzie Delta, Kendall Island Bird Sanctuary - nesting sites, staging area for southern migration
122	18585	Feb. 11		Barry		Avoidance of critical habitat areas by alternate route - Barry proposal
	18593-94			Barry		Oil leakage into rivers in Mackenzie Valley - impact on waterfowl
125	19099	Feb. 14		Pettigrew	COPE/ITC	Utilization of Delta for nesting, feeding
130	19751	Mar 16	YK	Hemstock	CAGPL	Barry (CWS), CAGPL cross-Delta routes equivalent impact but Barry's better during moulting, staging periods
131	19992	Mar.17		Williams	CAGPL	Snow geese more problem than whales, Shallow Bay crossing
133	20132-33	Mar.23		Rowe	CAGPL	Impact of cross-Delta route
	20144-46			Gunn	CAGPL	Surveys along cross-Delta route, impact of route, recommendations
	20160-62			Rowe		Overview of Delta
	20169-70			Gunn		Overflight restrictions of snow geese, cross-Delta route
	20173-74			Gunn		Snow goose nesting on Baillie Island instead of Banks Island
	20178-82			Gunn		Impact on geese in Delta of different routes
134	20251-52	Mar.24		Gunn		Slide show, geese during early snow on North Slope
	20275-78			Bayly Gunn	COPE/ITC	Effects on geese of constructing Shallow Bay crossing in two summers
	20326-34			Webb Gunn	CAGPL	Scheduling of Shallow Bay construction to accommodate birds and whales, conflicts; circum - Delta route preferable to cross-Delta for birds; moulting areas
	20367			Gunn		Recommendations to minimize impact of cross-Delta route
135	20427-28	Mar.25		Gunn		Moulting waterfowl concentrations, Shallow Bay vicinity
	20439-56			Gunn		Preferences re routes, Delta area; snow geese, use of route areas; possible impacts on birds; important areas; geese, impact on revegetation
	20596			Sprague	MVPI	Effect of petroleum spill on plumage
136	20615	Mar.26		Gunn		Disadvantages of "DEW line route" North Slope
C-44	4253	Mar.9	TUK	Gruben	Citizen	Noise of grizzly bear tagging drives geese away from nesting grounds
	4261			Pokiak	Citizen	Geese and ducks breeding on Banks Island, Cape Bathurst not included on map of Bird Sanctuary
C-45	4356-57	Mar.10		Nasogaluk	Citizen	Hunting geese in Tuk, use of down and feathers; movement of geese changed due to oil companies' activities, social impact
201	31755-60	Nov.16		Marshall	CAGPL	Snow geese - population figures 1972-1976, resiliency, impact of North Slope construction will be minimal

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XXII	2751-26	Mar. 20	YK	Bell Williams	NWT IB/MA CAGPL	Excavation, potential areas
XXIV	2828-35	Apr. 7		Lanc	COPE/ITC	Arctic coastal braided channels; North slope scheduling
XXV	3049-54	Apr. 8		Hardy	CAGPL	Ice jams, Mackenzie River
XXXIV	4499-4500	Apr. 22		Williams		River crossings

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XXXVII	4736	May 13		Bell	NWT IB/MA	Alluvial meander plain, Fort Simpson - Fort Good Hope
	4739-41			Williams	CAGPL	In case of machine down time
	4755-58			Dau Williams	CAGPL	Ditching/blasting
	4818-20			O'Rourke	CAGPL	Frozen material, size of lumps
XXXVIII	4845	May 14		Dau		Solid rock, fill for ditches
	4877-85			Berger		Along coastal route, Yukon border to Fort McPherson
	4900-02			Lucas	CARC	Great Bear River Crossing
XXXIX	5079-80	May 15		Williams		Excavation of East channel crossing in permafrost
47	6153	June 3		Willimovsky	EPB	Effect on fish and aquatic ecosystems
	6220			McT-Cowan	EPB	Post calving herds sensitive; recommendation
48	6413-16	June 4		Willimovsky		Sec. 24 of Code: safety, control, minimal scatter
C-I	26-28	Apr. 2	AK	Paul	Citizen	Effects on trapping
	47-49			Ross	Citizen	Seismic work by Shell Canada
	52-53			Ross		Witness worked on seismic blasting crew
	60-63			Tardiff	Citizen	Effects people living off the land
C-II	78-79	Apr. 3		Norbert	Citizen	Effects on fish, muskrat
	89			Sittichinli	Citizen	Damage to land, wildlife
	112-14			Sittichinli		Seismic blasting
	125-26			A. Gordon	Citizen	Seismic, wire
	172-73			Marring	Citizen	Effects on muskrat population
C-7	636	June 24	FF	Naedzo	Citizen	Dredging Great Bear Lake; impact on fishing
C-10	863-5	June 27	FN	G. Hetchingley	Citizen	Seismic blasting; winter; environmental impact
	902			P. Macaulay	Citizen	Oil companies, environmental impact
	907-9			J. Hitchinelle	Citizen	Blasting in or near lakes; impact on fish, beaver, muskrat
C-11	1004	July 8	FMcP	M. Kunnizzi	Citizen	Fort McPherson area
C-13	1258	July 10		J. Charue	Citizen	Husky Lake; no fish left
	1262-3			J. Charue		Damage to wildlife, especially muskrat
C-14	1357	July 11	OC	A. Charlie	Citizen	Environmental Damage
C-15	1439	July 12		B. Allen	Citizen	Damage to fish, request for compensation
C-16	1515-6	July 13		J. Tizya	Citizen	Holes left behind after dynamite explosions
	1520			A. Charlie	Citizen	No fish in Willow Lake since dynamite explosions
	1553-55			A. Abel	Citizen	Killed fish, muskrats in lakes on Old Crow Flats
C-19	1902	Aug. 6	FGH	N. Caesar	Citizen	Impact on beaver at Sans Sault
64	9409	Sept. 18	YK	Mirosh	Foothills	Large chunks of material produced by blasting to be reduced for berm & revegetation
65	9624	Sept. 19		Kosten	Foothills	Modified blasting ahead of excavating equipment in permafrost
66	9756-63	Sept. 22		Kosten	Foothills	Percentage of route to be blasted
	9771-76			Kosten		Cost of blasting & ditching
	9782-84			Kosten Mirosh	Foothills	Pulverizing of soil after blasting; revegetation problem
67	9900-01	Sept. 23		Kosten Mirosh		Further tests on blasting techniques in representative areas
	9959-60			Kosten Mirosh		Distance between looped pipes necessary in blasting
68	10146	Sept. 24		Dau	CAGPL	Contractors did not estimate more blasting than NES

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BLASTING

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79	11697	Nov. 3	YK	Minning	CAGPL	Required in fossil flood plains if very frozen
	11701-02			Minning		Need for blasting decreased by use of fractured bedrock
81	11994-12000	Nov. 5		Williams	CAGPL	Restrictions and contingencies concerning the use of explosives
	12064			Minning		Use of ditchers to further reduce blasted material
83	12435	Nov. 7		Williams		Explosives required for gravel mining, spread C, active flood plain
	12505			Williams		North Slope rivers, fossil flood plain borrow pits
85-A	12782	Nov. 12		Berger		Building railway, Fraser Canyon B.C.
86	12898-99	Nov. 13		Drew	Foothills	Bedrock borrow material, community laterals
92	14045-47	Nov. 21		McCart	CAGPL	Should explosives be used re river crossings: impact on overwintering fish
93	14076-78	Dec. 1		McCart		Explosive use, damage to fish; ice blasting
94	14198-99	Dec. 2		Marshall Scott	CAGPL MVPI	Under the ice blasting, Great Bear River
	14309			Bayly	COPE/ITC	Winter construction; migration of caribou, interference
	14347-49			Jakimchuk	CAGPL	Interference with caribou, harassment
96	14616-18	Dec. 4		Marshall McCart	CAGPL CAGPL	Blasting, Great Bear River; river crossing; winter blasting; fish concerns
	14688-90			McCart		Blasting on the Old Crow river; seismic work; salmon; Old Crow people fish at the confluence of the Porcupine and Crow Rivers
100	15303	Dec. 10		Hayden	Foothills	Experiments, blasting under ice, effects on fish
108	16463-66	Jan. 13		Wilimovsky	EPB	Distances from caribou; 'The offshore seismic seminar' (1974), published by DOE, Fisheries & Marine Service; Defense Research Agency in the U.S. experiments as to effects of blasts on underwater organisms; factors in death of organisms re: impact of blasting
128	19481-83	Feb. 18	IN	Trudeau	COPE	Sub-lethal effects of seismic charges, use of black powder, danger
	19494-98			Trudeau		Impact on seals; suggestions for control of use of explosives; blasting stream crossings
	19505-06			Trudeau		Inspection of underwater blasting, standards for blasting underwater
131	19871-72	Mar. 17	YK	Williams	CAGPL	Blasting won't be required for ditching on cross-Delta route except two stream crossing approaches
135	20461-62	Mar. 25		McCart		Possible impact on fish, river crossings, cross-Delta route
-C-40	3815-16	Feb. 23	AK	Elanik	Citizen	Effect of oil companies' blasting on hunting, trapping, fishing
162	24964-65	July 13	YK	Carlson	CAGPL	Shallow Bay shorelines, aid in building trench

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XVII	1971-73	Mar. 13	YK	Mollard	CAGPL	EPB report V.4; impact on fish
	1991-93			Mollard		Removal from stream beds; impact on aquatic ecosystem quality
XIX	2190-93	Mar. 17		Clark	CAGPL	Interdisciplinary studies
XXI	2461-62	Mar. 19		Cooper	CAGPL	Slide presentation: river bed degradation; sediment transport
XXIII	2683-87	Mar. 21		Clark		Removal of borrow material to construct berm
XXIV	2843-47	Apr. 7		Cooper		Bed degradation of borrow areas, selective backfill

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46	6068	June 2	YK	Craik	EPB	Fish in active stream beds
	6104-05			Craik		Potential severe impact from spoil mounds
	6153-60	June 3		Willimovsky	EPB	Siltation - use of gravel affects fish
	6189-90			McT-Cowan	EPB	Restrictions on borrow pits re: disturbance to birds
58	8178-79	Aug. 20	YK	Blair	Foothills	Intention to research specific environmental areas; restoration of gravel bars and sites
54	7457	Aug. 14	WH	Weedon	CARC	Impact of Fairbanks, Fort Yukon corridors
55	7636-37	Aug. 15		Morian	CARC	Excavation and usage may destroy archaeological sites; proximity of Engigstciak site to mainline route crossing of Firth River and use of borrow resources endangers archaeological work
C-18	1826-28	Aug. 5	FGH	Rowe Ellwood	CAGPL Foothills	Proposed sites and gravel requirements at Fort Good Hope
C-19	1852-59	Aug. 6		Rowe		Sites in vicinity of Fort Good Hope
C-22	2235	Aug. 11	WH	A. Wright	Citizen	Unnecessary restrictions
64	9420	Sept. 18	YK	Spafford	Foothills	Borrow operations in rivers; classification of appropriate river size for removal of granular material
	9432-33			Spafford Mirosh	Foothills	Concerns re borrow removal from flood plains
	9446-47			Marshall	CAGPL	Alyeska slope stability designs
65	9615	Sept. 19		Bauer Kosten	Foothills Foothills	Areas where large volume required, material placed ahead of pipelaying operations
66	9657	Sept. 22		Mirosh	Foothills	Winding down period of activity
	9685-99			Mirosh Bauer		Requirements for access & shoofly roads, side slopes, backfill
	9771-76			Kosten		No. of cubic yards needed for pipe trench & grading
67	9842-53	Sept. 23		Mirosh Bauer		Not yet specific re quantities required for locations of supply
	9965-66			Kosten		Opening of borrow pits in summer if permanent roads exist
68	10090-91	Sept. 24		Hushion	Foothills	Estimates of borrow in relation to total acreage requirements of Foothills
69	10500-01	Sept. 25		Owen	MVPI	Alyeska experience re removal of gravel from rivers and inactive flood plains; environmental advantages and impact
70	10583-87	Sept. 26		Lewis	MVPI	Mining of inactive flood plains; section 14.d.N.7.7.1.(iv); active flood plains, terraces; impact on fish; channel degradation
80	11873-85	Nov. 4		Minning	CAGPL	Competition with other users; environmental determinants of preferred site use of distant sources; guidelines for site development
	11889-900			Minning		Effect of operations in active flood channels; use of berms to minimize impacts
81	11963-64	Nov. 5		Minning		Advisability of use of alternate site at Shingle Point
	12070-135			Minning		Effects of removal from active flood plains, stream beds
	12092-93			Minning		Quarry in active flood plain does not leave scar - problem of borrow pits becoming lakes
	12114-33			McCart	CAGPL	Effect of siltation on oxygen levels in waters important to fish, impact of removal from braided rivers
82	12203-04	Nov. 6		Minning		Number of operations in Canada on flood plains, bed rock
	12275			McCart		Concern about sedimentation caused by borrow operations

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83	12348-55	Nov. 7	YK	Environmental Panel	CAGPL	Undesirable impacts of borrow pits; conflicts of uses
	12411-29			Minning		Site plans; impact assessment of pits
	12434-38			Williams	CAGPL	North Slope, timing of operations
	12439-509			Scott Environmental Panel	MVPI	Spread "C", and North Slope rivers excavating below water line, active flood plain, no removal from active channels, berms, buffer zones, flooding, DOE guidelines, site plan information, siltation, water in pits
84	12541-56	Nov. 8		Anthony Environmental Panel	CARC CAGPL	Siltation, active flood plain, North Slope, water and fish in pits; upland pits over active flood plain pits
	12574			Hemstock	CAGPL	Impact of active flood plain versus upland site
	12581-85			Bayly Minning Hemstock	COPE/ITC CAGPL	Alyeska sites, upland versus active flood plain; animal denning
85	12659-75	Nov. 12		Bayly Harlan McCart Williams	CAGPL CAGPL CAGPL	North Slope rivers, grading riverbed, sedimentation, channel migration, erosion
85-A	12773-90	Nov. 12		Scott McCart	MVPI	Siltation, effects on fish, Delta
86	12901-15	Nov. 13		Bouckhout	Foothills	Active flood plains, upland sites
87	13111-13	Nov. 12		Berger Taylor	Foothills	Aesthetic considerations, attitudes, consultation
88-A	13389-90	Nov. 17		McCart		Borrow sites, impact
98	14867-68	Dec. 8		Scott Gunn	CAGPL	Development within critical bird area
	14877-78			Gunn		Location of DEW line sites near gravel sources
	14894-97			Gunn		Near gyrfalcon nests; active flood plains, downstream effects on birds
99	15130-31	Dec. 9		Whitney	Foothills	Assessment of impact on mammals; relocation of sites
100	15202	Dec. 10		Bouckhout		Site relocations pending review of borrow requirements
	15343-44			Bouckhout Finney	Foothills	No gravel mining, islands, bars in Mackenzie River, important areas for birds
	15350-51			Bouckhout		Recommendation to relocate borrow pit, Trout River, out of active flood plain
101	15444	Dec. 11		Peterson	CARC	Monitoring gravel mining, Devil Creek, Lake area, Caribou Hills IBP site
102	15596-604	Dec. 12		Peterson		Removal, proposed Caribou Hills IBP site, opportunity for studies
	15707			Novakowski	CARC	Borrow pits in proposed IBP sites
108	16462-63	Jan. 13		Wilimovsky	EPB	Studies indicating potential quantity of gravel for the projects to be adequate and available from outwash plains
109	16639	Jan. 14		Wilimovsky		The mining of gravel from active stream beds must be avoided
112	17113	Jan. 20	IN	Bliss	GPC-D	Gravel required from Caribou Hills IBP site; would prefer no activities in area
	17123			Bliss		Gravel mining in Delta leading to loss of denning habitat
114	17399-400	Jan. 22		Mainland	GPC-D I	Studies of Big Horn Point as borrow site
116	17650	Jan. 24		Rempel	GPC-D-I	Surface area disturbance by gravel extraction
117	17761	Jan. 26		Bayly Webb	COPE/ITC GPC-D	Sand removal at Big Horn Point, impact on coney overwintering
	17809-15			Rempel	GPC-D-I	Gravel in Richards Island, Parsons Lake area; requirements for construction; gravel for community use at Inuvik and Tuktoyaktuk
	17819-20			Appleton	GPC-D-G	Gravel requirements, Parsons Lake area

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122	18572-74	Feb. 11	IN	Barry	COPE/ITC	Gravel removal at Pelly, Garry, Fort Nicholas Islands, Shingle Point, Tuktoyaktuk Harbour, Yaya Lakes
	18603-04			Stein	COPE/ITC	Impact of dredging at Tuktoyaktuk Harbour on fish resource
123	18775	Feb. 12		Yates	MVPI	Rock quarrying requests in Campbell Bay area
	18794-95			Yates		Company application procedure re rock quarry utilization at Cambell Lakes
131	19849-51	Mar. 17	YK	Clark	CAGPL	Loading pipe to prevent movement if soil liqifies, Shallow Bay, other Delta Crossings
	19865			Williams	CAGPL	Use of gravel on overland portions of cross-Delts route
	19872-87			Williams		Requirements, cross-delta route
	19959-64			Williams		Gravel required for backfilling trenches, cross-Delta river crossings
132	20053-55	Mar. 18		Hollingshead Clark	CAGPL	Borrow required to prevent erosion, west bank of Shallow Bay
	20105-09			Clark Williams		Special berm material needed on Delta to resist storm surges; gravel not used of buoyancy control; gravel for dykes, pads
	20133-46			Minning	CAGPL	Sources in Delta area, studies, field work; deposits, estimates; transportation; quality; gas producing companies needs
134	20336	Mar. 24		Gunn	CAGPL	Possible effect on birds if material taken from bar off Shingle Point
	20346-48			McCart	CAGPL	Impact if gravel required to build road if summer construction used on North Slope, cross-Delta route
139	21085-97	Apr. 7		Bayly Stephen	COPE/ITC MVPI	Granting of land use permits gravel removal from Garry Island

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XXII	2656-57	Mar. 20	YK	Williams	CAGPL	Displaced backfill: disposal
XXXIII	4325	Apr. 21		Dau	CAGPL	Operation, dealt with in phase 2
	4371			Dau		Clean up, restoration
61A	8716-17	Sept. 15		Bauer	Foothills	Bedding material, compacting of fine granular materials, and use as a protective layer, backfill
63	9024	Sept. 17		Mirosh	Foothills	Impact of reopening borrow sites for looping operation
66	9757-63	Sept. 22		Kosten	Foothills	Used when insufficient backfill
68	10043-45	Sept. 24		Hushion	Foothills	Comparison of CAGPL and Foothills requirements and maintenance
	10110			Hushion		Barging requirements for borrow after construction
69	10449-51	Sept. 25		Owen	MVPI	Fort Liard area borrow pits re construction of crossovers, permafrost areas; land use regulations
	10477-79			Owen		Use of pits; land use permits; Westcoast Transmission; future borrow requirements
	10494-98			Owen		Gravel survey, permit for use; impact of borrow extraction; granting of permits and commencement of project
	10500-01			Owen		Alyeska experience re removal of gravel from rivers, inactive flood plains
	10514-17			Owen		Pointed Mountain; opening up of borrow pits along the right-of-way; land-use regulations
76	11164-65	Oct. 21		Parker	CARC	Use of river bars for gravel; impact on fish, streams; upland sites
79	11680	Nov. 3		Harlan	CAGPL	Buffer zone between site and stream channel

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79	11743-44	Nov. 3	YK	Minning	CAGPL	Location of sites on alluvial fans or terraces; use of berms
80	11840-43	Nov. 4		Minning		Removal of borrow from active flood plains; no maintenance of drainage
	11873-85			Minning		Use of distant sites; environmental determinants of preferred sites; competition with other facilities, looping; guidelines for sites and development
	11889			Minning		Operation in active channels, use of berms
	11908-17			Harlan Dabbs	CAGPL CAGPL	Drainage and erosion control, restoration and revegetation
81	12070-135	Nov. 5		Dabbs Minning		Quantity of resources on North Slope; removal from active flood plains and braided stream channel areas; fossil flood plains; denning sites; gravel use by communities
	12114-33			McCart	CAGPL	Impacts of removal from braided rivers
82	12164-66	Nov. 6		Minning		Comparison of coastal and interior route requirements and sources
83	12439-509	Nov. 7		Scott Environmental Panel	MVPI CAGPL	Spread "C" and North Slope rivers, excavating below water line, no removal from active channels, berms, buffer zones, development plan, choosing sites, definition of "Active channel", DOE guidelines, site plan information, water in pits
84	12541-56	Nov. 8		Anthony Environmental Panel	CARC	Active flood plain, North Slope, windrowing, water in pits, fish in pits; upland pits
88	13297-98	Nov. 17		Taylor	Foothills	Aesthetic considerations, borrow pits
	13320-24			Bouckhout	Foothills	Dredging as borrow method; impacts
92	14005-08	Nov. 21		McCart	CAGPL	Removal from active flood plains; studies, monitoring
114	17291-96	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas field, Ya Ya Lake, mining process; small camp site required.
	17343			Mainland		Methods of removing, transporting sand, Big Horn Point

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XVII	1975-82	Mar. 13	YK	Mollard Bayly	CAGPL COPE/ITC	Deposits - importance in route selection; availability of borrow, location of deposits; volumes
	1986-93			Mollard Bayly		PAAG Report; potential conflict over supply; pits in braided channels and stream beds; a factor in route selection
XIX	2197 2205-06	Mar. 17		Williams	CAGPL	Sans Sault test site; gravel for roads, pads
XXIII	2674-86	Mar. 21		Clark Hollingshead	CAGPL CAGPL	Granular material - 3.5 million yards; Great Bear River, berm, random (gravel) material; NES report, environmental impact of borrow area
XXIV	2796	Apr. 7		Slusarchuk Hollingshead	CAGPL	Berm - borrow area along ROW; gravel from stream beds
XXV	3008-10	Apr. 8		Hardy	CAGPL	Kotanelee - gravel from environmentally sensitive area to cover exposed pipe
XXVIIII	3526	Apr. 11		Morgenstern	CAGPL	Wood chips/styrofoam
XXXII	4040	Apr. 18		Koskimaki	CAGPL	Gravel for compressor station pads
XXXIIII	4325	Apr. 21		Dau	CAGPL	28 million cu. yd. Canadian requirement north of 60°
	4330-31			Dau		Weight casting operation; fuel storage dikes
XXXIV	4401-02	Apr. 22		Dau		Gravel pads, compressor station location
XXXVIIII	4843-48	May 14		Dau		Potential borrow sites, quantities, select material
41	5298-99	May 20		Hurd	CAGPL	Gravel for airstrips, quantity
43	5577	May 22		Williams		Gravel pads, compressor stations
45	5889-90	May 24		Bayly		Travallant Lake area; wildlife disturbance

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45	5912-13	May 24	YK	Bayly Horte	COPE/ITC CAGPL	Looping, additional borrow materials
47	6179-80	June 3		McT-Cowan	EPB	Gravel source Yukon coast is also nesting ground for ducks
48	6399-6402	June 4		Craik	EPB	Sec. 18 of Code: minimize degradation
59	8440-2	Aug. 21	YK	Marshall Panel 3	CAGPL Foothills	Foothills assessment of material
53	7082	Aug. 12	WH	Williams	CAGPL	Granular requirements through or east of the Brooks Range.
	7107-08			Clark	CAGPL	Supply along alternate corridors.
54	7479	Aug. 14		Weedon	CARC	Need and supply of borrow materials; location of many near calving range
	7538-39			Parker	CARC	More aesthetically disturbing from the air; rehabilitation is difficult in the Arctic; river quality and siltation; impact on fish
55	7643	Aug. 15		Morlan	CARC	Peel Plateau, Dempster right-of-way, borrow for a ditched pipeline
62	8867-68	Sept. 16		Mirosh Bauer	Foothills Foothills	Borrow requirements: volumes and types of bedding and padding required; processing plants to translate borrow into required bedding and padding
63	8971	Sept. 17		Mirosh		Requirements for construction of aircraft landing sites; CAGPL - Foothills differences
70	10509-16	Sept. 26		Owen	MVPI	Opening up of borrow pits for use in seismic operations; land-use permits; Pointed Mountain line; pipeline right-of-way
	10524			Owen		Removal of gravel from Kotaneelee River bed and from a gravel bar in the La Biche River
72	10770-71	Oct. 15		Lewis	MVPI	Extraction of gravel from bars from active flood plain; sub-riverbed materials re Malcolm River
76	11162-65	Oct. 21		Parker	CARC	Serious gravel shortage in Alaskan Arctic and sub-Arctic; no shortage north of Brooks Range; mining of rivers; river bars; impact on fish and streams
	11185-86			Parker		Gravel needs re haul roads, work pads, pipe burial; water availability; Fairbanks Corridor
	11245-46			Parker Weedon	CARC	Route changes, suitability of soils, constructability of a route; lack of gravel in traversing across the foothills of the Brooks Range
77	11406-07	Oct. 22		Rutter	CARC	Blackwater River area great deal of well drained sand and gravel
	11432			Rutter		Use of drumlins for gravel sources
	11462-63			Roed	CARC	Planning stage; identification of sites
	11483-87			Roed		Location and supply of gravel along edge of the shield route
78	11548-49	Oct. 23		Roed		D.P.W. borrow pit at Inuvik in the crest of a drumlin; ice rich materials
	11564-66			Roed		Terrain sensitivity; scarcity of construction materials
	11615-17			Minning	CAGPL	Need for borrow, construction, erosion control measures; quantity needed, location of borrow, construction scheduling
	11620-21			Minning		Slope stabilization programs; inventory of borrow distribution, reserves
79	11682-11711 11756-59	Nov. 3		Minning Minning	CAGPL	Quantities of borrow required for CAGPL project Questioned by Berger re borrow requirements and location of sites
80	11840-43 11873-85	Nov. 4		Minning Minning		Removal of borrow from active flood plains Use of distant borrow sites; competition for resources with other facilities and developments and looping; guidelines for sites; development plans; environmental determinants of 'preferred' site
	11889			Minning		Location; use of active flood channels

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81	11958-61	Nov. 5	YK	Minning	CAGPL	Clarification of alternate borrow site at Shingle Point; environmental factors
	12022-60			Minning		Requirements for berm; competition for resources from other developments; types of materials required
	12067			Minning		Estimates compared to Mollard's; example of Little Chicago site, Richards Island, Ya-Ya esker, Caribou Mountain
82	12136-38	Nov. 6		Hemstock	CAGPL	Three million cubic yards of borrow required by Delta Producers
	12169-72			Minning		Comparison of requirements of interior and coastal routes
	12203-04			Minning		Borrow quantities required from the four flood plain deposits; needs of intermediate borrow (between compressor stations)
	12279			Hemstock		More borrow required if left berm erected at time of construction to counter heave; disagreement with Clark's analysis
83	12348-72	Nov. 7		Environmental Panel	CAGPL	Conflict of uses for pit areas; selection of sites; grade classification; shortages; minimum requirements; grade selection
	12372- 439			Minning Williams Hemstock	CAGPL CAGPL CAGPL	Thunder River compressor site; borrow location criteria; site plans; North Slope
	12439-500			Scott Environmental Panel	MVPI	Spread "C", active flood plain mining on North Slope, quantity requirements
85	12672-75	Nov. 12		Bayly Environmental Panel	COPE/ITC	North Slope rivers
86	12607-08	Nov. 13		Williams	CAGPL	Alternative sites, mileposts 356.9 and 534
	12891			Bouckhout	Foothills	Borrow requirements
87	13059-74	Nov. 14		Davison Bouckhout Drew	Foothills Foothills Foothills	Shortages, Parsons Lake; communities, alternate sources, use conflict; availability
	13170-80			Bouckhout		Foothills borrow requirements
88	13312-25	Nov. 17		Bouckhout Claridge	Foothills	Source, Parson's Lake; requirements, studies; dredging, impacts
90	13650-52	Nov. 19		Berger		An example of impact of other projects in corridor
	13657-70			Environmental panel		Impact of borrow for other corridor projects
93	14150	Dec. 1		Gunn	CAGPL	Impact and increased human activity on North Slope - disturbance to waterfowl
	14191			Gunn		Campbell Hills; peregrine falcons nesting; area of borrow materials
94	14221-23	Dec. 2		Gunn		Location of borrow pits and facilities; rare and endangered species; Shingle Point
	14333-34			Banfield	CAGPL	Consideration of cumulative impacts and Guidelines
95	14389	Dec. 3		Banfield		Route selection; ecologically sensitive areas
100	15202	Dec. 10		Bouckhout	Foothills	Site relocations for environmental reasons pending borrow requirements review
103	15726-28	Dec. 15		Stein	CARC	River and lake system sources; suggested rules re: gravel removal
	15764			Steigenberger	CARC	Malcolm River conflict potential construction vs fisheries
	15777-80			Steigenberger		Gravel removal recommendations
	15787			Steigenberger		Pipeline design recommendation
104	15875	Dec. 16		Steigenberger		Fisheries recommendations to the Inquiry
	15971-73			Walker	CARC	Development of standards, specifications re: gravel removal
105	15977	Dec. 17		Hollingworth	Foothills	Gravel mining
	15980-82			Steigenberger		Road construction re: gravel needed along oil pipeline, Aleyeska pipeline

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105	15984-88	Dec. 17	YK	Stein	CARC	Repercussions of gravel removal from fish habitat; buffer zone between channel and gravel removal operations
	16006			Walker		Specific assessment re: gravel removal operations site
	16030			Stein		Water extraction and gravel removal
	16048-52			Marshall Stein	CAGPL	Impact of river; taking of borrow re: regulated activity, requirements for applications for removal; concern re: location of borrow material will be changed
	16070-71			Marshall Stein		Shortage re: alternative source, active flood plain; Francis Creek
	16079-80			Walker	CARC	Necessity of adequate information re: gravel resources
	16103-08			Ryder	MVPI	Gravel removal re: highway construction in N.W.T.; differences in regulations in Yukon and N.W.T., control; establishment of gravel inventories and quota levels
C-36	3487-88	Jan. 28	IN	B. Allen	Citizen	Gravel removal from river beds - damage to spawning areas
	3550-52	Jan. 29		Ellwood	Foothills	Gravel removal sites proposed by Foothills
112	17123	Jan. 20		Bliss	GPC-D	Will always be sufficient gravel in Delta no matter what level of mining.
114	17291-93	Jan. 22		Mainland	GPC-D-I	Taglu gas field, estimated requirements, YaYa esker prime source; alternate source Big Horn Point; material uses
	17321-22			Stewart	GPC-D-I	Taglu gas field, more gravel could be required for infill drilling pad
	17334-57			Mainland		Taglu gas field, surveys, sources, stockpiling, requirements for artificial island
	17373-74			Mainland		Taglu gas field, additional gravel to repair washed out roads, stockpiling not necessary for this
	17390-93			Mainland		Taglu gas field, repairing eroded pads, dykes, replacement gravel needs; gravel required to prevent permafrost melting
	17399-410			Mainland		Big Horn Point, Caribou Hills Ya Ya borrow sites, borrow requirements, supplies
	17424-30			Faulkner	GPC-D-S	Niglintgak gas field, will use Ya Ya deposit, requirements
115	17460-62	Jan. 23		Faulkner		Niglintgak gas field, gravel for dykes
	17486-91			Faulkner		Niglintgak gas field, requirements from Ya Ya Lake deposit; uses; future requirements, other developments; saving gravel, methods; terrain degradation due to gravel shortage
	17567-68			Stamberg	GPC-D-G	Parsons Lake gas field, airstrip size may depend on gravel supply
116	17614-21	Jan. 24		Stamberg Bayly	COPE/ITC	Amount of gravel needed to construct and maintain Parsons Lake site; gravel to back-fill rig sumps, land use permit for back-filling sumps; Caribou Hills as gravel source
	17638-39			Scott Stamberg	MVIP	Gravel used to maintain roads, alleviate possibility of soil erosion, slope instability and thermokarst in Parsons Lake region

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124	18908-10	Feb. 13	IN	Lewis	COPE/ITC	Coastal beaches, spits, bars - potential as sources of borrow materials
	18917-20			Lewis		Relationship between sediment deposition, removal, coastal retreat
125	19065-69	Feb. 14		Lewis		Dredging of Tuktoyaktuk Harbour - use of spoil to reduce coastal erosion
129	19606-33	Feb. 19		Inglis	MVPI	Impact of development on rock and granular material resources of the Mackenzie Delta
	19653-61			Inglis		Cross-delta gravel requirements, transportation
	19696-719			Inglis		Fill material used at Immerk; kind and amount of available material; sources, Garry Island; requirements for a community; gravel at Yaya esker
	19722-30			Marshall Inglis	CAGPL	"Gravel Inventory Survey, Richards Island and Adjacent Areas" by Mollard and Associates Ltd.
130	19760-70	Mar. 16	YK	Hollingshead Minning	CAGPL CAGPL	Sources studies along cross-Delta route in 1975; corrections in Minnings' prepared evidence on cross-Delta route; requirements for cross-Delta route, sites; Shell and Imperial requirements, Richards Island area
	19776			Williams	CAGPL	Natural resources required in construction
	19790			Williams		Borrow study along cross-Delta route, excavation study in Shallow Bay
135	20524	Mar. 25		Hemstock	CAGPL	Fewer pits, more material required for cross-Delta route
136	20620	Mar. 26		Hemstock		Availability of material, "DEW line route", North Slope
C-47	4562-63	Mar. 13	ARR	N. Norbert Beer	Citizen Foothills	Gravel from Travallant Lake
165	25633-34	July 19	YK	Reesor MacLeod	NWT/AM Foothills	Territorial regulations on amount of gravel taken from borrow pits
189	29396-97	Sept. 22		Robertson	NWT/AM	Availability of granular materials in Campbell Hills area to Inuvik; right of first refusal on granular material
189A	29567-68			Neakok Buchholdt	COPE COPE	Control over gravel needed
191	29829-30	Sept. 24		Sigler Prefontaine Hawryszko	NWT/AM MVPI MVPI	Gravel requirements for road construction and maintenance; gravel survey by DIAND
194	30316-20	Oct. 6		Doyle	EPB	Foothills plan for borrow use viewed as preliminary in nature
	30373-74			Hemstock		Shortages of gravel if railway, highway built in narrow energy corridor
	30443A-46			Wylie	MVPI	Gravel requirements of an oil pipeline
195	30463-71	Oct. 7		Mirosh	Foothills	Gravel pad construction requirement
196	30901-02	Oct. 12		Skinnarland	CARC	Gravel mining operations, gravel mining permits, problem with land use regulations
197	31118-19	Oct. 13		Norton	MVPI	Gravel taken from Sagavanirtok River, effect on environment
201	31842	Nov. 16		Templeton	EPB	Gravel prices

BRIDGES AND OVERHEAD CROSSINGS (1)

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XXII	2659-67	Mar. 20	YK	Hardy	CAGPL	Overhead method of crossing rivers
XXIV	2816-19	Apr. 7		Cooper	CAGPL	Bridge structure, maintenance, security
XXV	2975-81	Apr. 8		Hollingshead	CAGPL	Suspended crossings - alternative to twinning
	3025-30			Cooper		Neil - scour at crossings without piers
XXXIII	4366	Apr. 21		Dau	CAGPL	Detour, temporary bridge for highway crossing
XXXIX	5019-21	May 15		Williams	CAGPL	East channel - ice bridge for pipe and equipment
40	5213	May 16		Hurd	CAGPL	Crossings of unfrozen rivers
42	5513	May 21		Hurd		Pipeline, self-supporting span
56	7860-2	Aug. 18		Horte	CAGPL	Geo-technical and environmental concerns; above ground versus burial
61-A	8706-09	Sept. 15		Mirosh	Foothills	Pipeline scraper traps and components at compressor stations; valve actuators for mainline block and side valves, insulation to control hydrate formation; paint restricting any atmospheric corrosion, actuators
62	8817-18	Sept. 16		Mirosh		Vehicular bridge crossings of rivers on the Yellowknife/Pine Point community gas service laterals
	8868-78			Walker Mirosh	Foothills	Engineering and terrain stability factors; access; costs; ambient temperature conditions; environmental condition; disruption of fish at river crossings; failure and repairs; maintenance operations
65	9636-38	Sept. 19		Jarvis	Foothills	Ice bridges over crossings up to 200 ft. wide; technique and rationale
66	9727	Sept. 22		Mirosh		Snowmaking equipment for building ice bridges
	9832-33			Jarvis		Construction of ice bridges by flooding; water use
67	9859-60	Sept. 23	YK	Jarvis Templeton	Foothills EPB	Operations and maintenance; melt out of ice bridges; impact on fish migration
70	10554	Sept. 26		Longlitz	MVPI	River crossings structures; interference with summer or winter flow; Section 33 of the Fisheries Act
71	10609-11	Oct. 14		Templeton Longlitz		Design and construction; use of timber; clean up of logs
	10684			Bayly Longlitz	COPE/ITC	Use of timber in winter crossings of water bodies; environmental damage
84	12549-52	Nov.8		Anthony McCart Williams Hemstock	CARC CAGPL CAGPL CAGPL	Ice bridges at river crossings
	12575-76			McCart		Bridges for roads over streams
85	12648-49	Nov.12		McCart		Overhead crossing, Firth River, more damaging than underground
86	13010-11	Nov.13		Williams		Ice bridge, Swimming Point
92	13994	Nov.21		McCart		Bailley bridges may be used instead of culverts
93	14066-68	Dec. 1		McCart		Snow bridges; cleanup prior to spring break-up
97	14781	Dec.5		Templeton	EPB	Design using 50 year flood figures
103	15794	Dec. 15		Miller	CARC	Winter crossing considerations - Willowlake River to Great Bear River
	15813			Miller		Ice bridge at Hardship Crossing, water flow variation
105	16110-17	Dec. 17	YK	Ryder	MVPI	Ice bridges re: removal prior to spring breakup; methods; problems; timing and monitoring
108	16488-90	Jan. 13		Adam	EPB	Ice bridges; climate; loads and bridge strengths
175	27243	Aug. 23		MacLeod	NWT/CC	Recommended that bridge be built across Mackenzie River on Mackenzie Highway

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XV	1624	Mar. 11	YK	Gibbs	Foothills	Financing of the project; service to northern communities
XVI	1759-73	Mar. 12		Dau	CAGPL	Ownership and control of operating company;
42	5532-43	May 21		Horte	CAGPL	Member Companies, personnel structure and positions
43	5580-91	May 22		Genest Horte	CAGPL	Management of Arctic Gas; decision-making
	5593-5736			Horte		Company structure, financing by sponsor companies
44	5783-88	May 23		Bell	NWT IB/MA	Economic feasibility
	5811-12			Bell		Management structure, committees, socio-economic research
	5819-21			Horte		Members of consortium with operations north of 60
	5826-28			Horte		Companies in Gas Arctic Systems Group
45	5946-48	May 24		Bayly	COPE/ITC	Government authority; borrowing money
	5957-65			Horte		Companies' experience in oil and gas production; Management Committee
	5966-78			Horte		Consortium financing, Management Committee
46	6058-64	June 2		Templeton	EPB	Sponsoring of EPB
	6088-90			Craik	EPB	Board funded by CAGPL
49	6508-18	June 5		Horte		Consultant groups used, operating company - control
	6553			Horte		May/72 meeting, members of groups comprising CAGPL
	6592-6604			Horte		Effect of regulatory agency on financing
50	6675-92	June 6		Horte		Gas reserves support long term financing of pipeline; routing is management committee decision
	6713-19			Horte	CAGPL	Breakdown of staff into disciplines, also O and M support staff
	6725-40			Horte		Financing when people confident of engineering, choice of contractors, key men
C-5	456-458	May 29	HR	Carter	CAGPL	Ownership of the pipeline
56	7812-19	Aug.18	YK	Horte	CAGPL	Research personnel; budget proposals; addition and rejection of environmental proposals; joint studies; communication of findings among groups
	7823			Horte		Reduction in costs; borrowed monies
	7863-66			Horte		Cost of research
57	7978-7983	Aug.19		Blair Goldie	Foothills CAGPL	Companies and management organizations involved in CAGPL: nationality of CAGPL
58	8138-42			Blair		Foothills comments as to CAGPL's direction being foreign led
52	6892	Aug.12	WII	Banfield	CAGPL	Relationship of environmental consultants to NES and CAGPL
C-21	2187	Aug. 9	NW	Rowe	CAGPL	Imperial Oil in Arctic Gas consortium
88-A	13364	Nov.17	YK	Hemstock	CAGPL	Organization of environmental department
90	13731	Nov.19		Hemstock		EPB budget provided; cost of environmental program
94	14236-41	Dec. 2		Hemstock		Organization of research; co-ordination of studies; recommendations
95	14468-71	Dec. 3		Jakimchuk Banfield McCart	CAGPL CAGPL	Environmental assessment; co-ordination of research; responsibilities
96	14658-67	Dec. 4		Hemstock Marshall Veale	CAGPL CAGPL CYI	Posting of a security bond by CAGPL in order to ensure the maintainance of the Porcupine Herd
99	15046	Dec. 9		Hemstock		Size of environmental department
109	16718-25	Jan. 14		Templeton	EPB	EPB consultant work, CAGSL
C-25	2524-27	Sept. 8	FS	Deller Workman	Citizen CAGPL	Canadian/American percentage ownership
	2571-72			Workman		Environmental engineering consultants
C-50	4980-81	May 11	VAN	Horte	CAGPL	Some profits must be made to pay off investments, CAGPL should not be seen as profiteers; source of funds

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C-55	5756	May 18	EDM	J. Paschen	Citizen	Member companies
159-A	24594-96	July 7	YK	Trusty	CAGPL	Possible request for government backing, capital borrowings
184	28522-24	Sept. 14		Atcheson	COPE/ITC	Question re corporate structure suitable to play humanitarian role in aiding natives

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XV	1727-36	Mar.11	YK	Dau	CAGPL	Responses to PAAG re: engineering aspects of route selection; slope stability and erosion susceptibility; valleys and valley walls; pipeline-highway interaction
XVII	1994-97	Mar.13		Dau		Response 52; water requirements; availability
				Bayly	COPE/ITC	
	1999-2000			Bayly		Response 22; off-road vehicular traffic; contingency repairs
XVIII	2061	Mar.14		Mollard	CAGPL	Response 17; reliability of terrain typing
XIXA	2263	Mar.17		Clark	CAGPL	Response 55; monitoring
XX	2296-97	Mar.18		Clark		Responses 16-21, 23, 24, 26, 28-30, 35-39-41, 42, 55, 56
	2344			Clark		Response 24; buried pipeline rationale
	2362			Morgenstern	CAGPL	Slope stability, classification, terminology
	2365-2372			Clark		Appendix B, potential for slope failure; field sampling; Cv; Statistical significance; retrogressive thaw flow slides; creep of frozen ice-rich soil
	2386-2402			Clark Cooper	CAGPL	Sediment transport, #42; #40 and #53, toxic materials, pollutants; waste test fluids; impacts on aquatic ecosystems; construction work pads at river crossings, #44, berm construction, Great Bear River, river velocities; icings; local bed scour, #36, #37; bed degradation; lateral migration of channel; #42, bank stabilization, river training structures; #38, convective heat transfer around chilled pipe; icings and blockage of water flow
XXI	2475-78	Mar.19		Clark		#37 "Left Bank Profile", Firth River crossing
XXII	2654	Mar.20		Anthony	CARC	#56 abandonment; snow roads, alternatives, water required
XXIII	2701-03	Mar.21		Clark Williams	CAGPL CAGPL	#41 culvert size
	2728-29			Williams		
XXIV	2770	Apr.7		Clark		Terrain stability - piles vs. burial
	2775-78			Clark		Advantages and disadvantages of pile support
	2835-42			Cooper Hardy	CAGPL CAGPL	Local bed scour-accuracy and reliability of predictions, bed degradation of borrow areas
XXV	3059	Apr.8		Clark		Convective studies - beaded streams
	3061			Hollingshead	CAGPL	Repair crossings - time involved
	3080			Cooper		#37 - design flow
XXVI	3139-40	Apr.9		Slusarchuk	CAGPL	Question 20 - Amount of heave
	3151			Slusarchuk		P.170 - Differential heave including rupture
XXVIII	3445-47	Apr.11		Scott	MVPI	Response to q.38 P.A.A.G., pipe below river problems
XXVIII	3458			Scott		Chilled pipeline, new icings, addendum, p.14
	3464			Scott		Reply to question 38 of P.A.A.G.
	3519			Scott		Stabilization methods
	3519			Scott		Question #19, p. 19-4
	3539-40			Scott		Question #55, monitoring slope stability
	3554			Scott		Question #24, p. 24-2
XXXI	3980	Apr.16		Anthony	CARC	Question #53, methanol test method
XXXII	4106	Apr.18		Purcell	CAGPL	Examples of flexibility of compressor station locations
	4131-33			Reid	CAGPL	#40 Contaminants in test fluid

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XXXIII	4326	Apr. 21	YK	Dau	CAGPL	#12, design and construction, wharves and stockpile sites
XXXIV	4480-81 4483	Apr. 22		Dau Dau		Response to PAAG question #11 Questions re snow gathering, making techniques
XXXV	4567/8	Apr. 23		Dau	CAGPL	Water source availability for snow manufacture
XXXVII	4710	May 13		Williams	CAGPL	#15, routes both east and west of Ft. Simpson
XXXVIII	4836 4917 4967	May 14		Williams Lucas Marshall	CAGPL CARC CAGPL	#25, snow roads #25, remedial measures #2, size of clearing crews
XXXIX	5022-23 5059-62 5080 5083-85 5129	May 15		Williams Dau Williams Williams Harlan	CAGPL CAGPL CAGPL CAGPL CAGPL	Maximum slope of winter road for vehicles Additional men, equipment to accelerate schedule Effect of blasting Length of culvert Stability of backfill - use of select material
40	5203 5232-33 5246-58	May 16		Marshall Marshall Marshall	CAGPL CAGPL CAGPL	#24, #55 #55, monitoring #22, #54 off-road vehicular traffic; contingency plans, river crossings
41	5312 5320 5350-51	May 20		Templeton Hurd Lucas	EPB CAGPL CARC	#22, #54 off-road vehicular traffic #22, revegetation to restore ground cover #22, illustration, break on North Slope
42	5484-85 5495 5512	May 21		Scott Hurd Hurd	MVPI MVPI MVPI	#55, monitoring #56, abandonment #54, repair at river crossings
45	5936-37	May 24		Horte	CAGPL	Financing, regulatory authorities
47	6308-09	June 3		Adam	EPB	Frost heave control
58	8156-7	Aug. 20		Scott	MVPI	CAGPL's responses to Pipeline Application Assessment Group's 56 Questions re: Foothills' answer to CAGPL's responses
63	9203	Sept. 17		Marshall		Response to question 22 - reference by Hurd re frequency predicted for pipeline failure
66	9746-52	Sept. 22		Mirosh	Foothills	Comment re CAGPL response #2
69	10295-97	Sept. 25		Marshall	CAGPL	Numbers 20 and 56 re terrain stability, southern permafrost region; pipeline stability following abandonment
70	10571 10585 10589-91	Sept. 26		Lewis Lewis Lewis	MVPI MVPI MVPI	Question 39; definition of terms, active flood plain Question 39; mine from active flood plains Question 38 re frost bulb growth; Battelle Report; convective model for subsurface flow around a chilled pipe; Malcolm, Firth rivers; flood depth
72	10769	Oct. 15		Marshall		Question 39 in the Responses to the Pipeline Application Assessment Group Requests for Supplementary Information; active flood plains; sub-channels; braided rivers; active channels
73	10966	Oct. 16		Harlan	CAGPL	Question 38 - re river crossings
76	11644	Oct. 23		Minning	CAGPL	Question 52, water supply requirements, potential water sources
80	11873 11931	Nov. 4		Minning Williams	CAGPL CAGPL	Question 9 - scarcity of areas for borrow Discussion of grades for snow roads
81	12053 12096	Nov. 5		Minning Williams	CAGPL CAGPL	Questions 9, 9-1 conflicts in resource use among developers Question 52-1 regarding water consumption
83	12373 12406 12417-18 12484	Nov. 7		Scott Scott Minning Scott	MVPI MVPI MVPI MVPI	Appendix "A", borrow site location Borrow pit environmental information for Fort Simpson and Cross-Delta routes in Same volume Appendix "A", table 2 Appendix "A"
84	12595	Nov. 8		Bayly	COPE/ITC	52-1
85	12711 12734-37	Nov. 12		Scott Scott		To question 35, PAAG 52-2

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85-A	12798	Nov.12	YK	Marshall	CAGPL	Will provide information on spill cleanup plans
93	14077	Dec.1		McCart	CAGPL	Question #45, depth to which charges are buried
99	15047	Dec.9		Scott		#55, monitoring
103	15731-32	Dec.15		Stein	CARC	Fishing by pipeline personnel; stream culverts re: construction criteria
105	16038	Dec.17		Marshall		Responses to PAAG 52 re: water consumption, Spread "C", North Slope
132	20115	Mar.18		Purcell	CAGPL	Re capital costs of moving compressor stations
159-A	24574	July 7		Trusty	CAGPL	Information on figures for unemployment insurance, welfare payments
161	24785-90	July12		Williams	CAGPL	Information filed to answer PAAG question Number 2
162	24079-80	July 13		Trusty		Response to item six of PAAG request for Supplementary Information, pipeline activities appropriate for local contractors

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XV	1623-25	Mar.11	YK	Genest	CAGPL	To supply copies of Sects. 4, 5, 6
	1656			Genest		Distribution of Exhibits 66,67
	1739			Genest		Drawing to show relationship between cross-delta route and the proposed gas plant and gathering line facilities, Delta area
XVI	1773-74	Mar.12		Genest		Letter/information re; cost difference, cross-Delta and Coastal Routes
	1832			Genest		Terrain classification material for routes other than prime and interior
	1843			Genest		Filing of material re: cross delta route
XVII	1877-79	Mar.13		Genest		SVI, 1773-74 fulfilled
XVIII	2023-24	Mar.14		Marshall	CAGPL	Information from Mr. Fox re: traplines for Bayly
	2078-80			Marshall		Routes supplied to CAGPL's environmental consultants
	2080-81			Marshall		Transcript of April 1973 meeting
	2089-90			Marshall		Inform Commission Counsel of any serious route change considerations whether major or minor
	2098			Scott	MVPI	Request for map of proposed coastal route pre April 1973 meeting
	2102-04			Dau Marshall	CAGPL	Dau and Panel 1 and Applicant to design routing alternatives to take environmental etc. concerns into account - as hearings proceed
	2112			Scott		Socio-economic consultants considering Fort Simpson route change
	2121			Marshall		Response to p. 2112, VanGinkle Associates, Hedlin
XIX	2127-28	Mar.17		Scott		3 requests re: mileages of various routes
	2128-29			Genest		SVIII 2023-24 fulfilled - letter from Fox
	2217			Genest		Exhibits - slides used in presentations
XIXA	2294-95	Mar.17		Genest		April 1973 meeting transcripts; cross delta route environmental information
XX	2405-07	Mar.18		Genest		Arctic Gas - Government meetings, minutes: May 5, 1972; may 18, 1972 for Anthony; marked as Exhibits 79 and 80
XXI	2411-13	Mar.19		Genest		Summary of evidence to be produced for cross-examination, USSR visits, Mr. Fielder. Availability of reports for Mr. Pelton
XXI	2420	Mar.19		Morgenstern	CAGPL	Cv sketch to be filed as Exhibit
	2499-2500			Williams	CAGPL	Location of 48" pipe on Interprovincial system
XXIII	2723-24	Mar.21		Clark	CAGPL	Route change due to environmentally sensitive area
	2755			Williams Genest		Location of potential blasting areas
	2759-61			Scott		See volume XIX, p.2127-28

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XXIV	2786	Apr.7	YK	Genest	CAGPL	Question of ordering pipe for Horte
XXV	2948-50	Apr.8		Genest		Drill hole data #87, Pointed Mountain report 104, Alignment sheets #88,89,90
XXVI	3090	Apr.9		Genest		Information promised April 8 delayed
	3100			Clark		Location of test holes on maps
	3125			Genest		Application - present stand
	3257-61			Slusarchuk	CAGPL	Data, Calgary test-site, heaving above pipeline due to lensing
	3276					Report re driving gradients - continuous/discontinuous permafrost
	3311			Genest		Report, surface settlement measurement
	3414-15			Slusarchuk		Date of Battell-Brooker, E.R.P. Geothermal programs
XXVIII	3475	Apr.11		Clark		Frost bulb reduction information in Battell Report
	3482			Clark		Make available information, reports on insulated culverts through frost bulbs
XXVIII	3500-01	Apr.11		Cooper	CAGPL	Margin of error, Mackenzie flood estimates
XXIX	3562-63	Apr.14		Cooper	CAGPL	100 year flood
	3602-03			Clark	CAGPL	Show temperature probes other than on bore hole diagrams
XXX	3745	Apr.15		Holmberg	CAGPL	Automatic/manual welding, timing of decisions
XXXI	3883-84	Apr.16		Genest	CAGPL	Waste facilities, Phase 2
	3943-44			Koskimaki	CAGPL	Decibel rating, Travailant Lake Compressor Station
	3947-48			Marshall	CAGPL	Report on emissions from compressor stations
	3951-52			Koskimaki		Computer program, climate, northern conditions
	3995-96			Scott	MVPI	Report by Mr. Fielder on Soviet Union pipelines
XXXII	4001	Apr.18		Koskimaki		Catalogue of chemicals, fuels & lubricants
	4046			Purcell	CAGPL	Surcharge effect of arrestor bands
	4056			Genest		Horte - nature of Prudhoe Bay gas
	4075A			Genest		Deal with looping
	4104-07			Genest		Flexibility of compressor station locations
	4140-43			Koskimaki		Units of sulphur measurement; report-computer program
	4146			Genest		Does computer program allow for inversion factors
XXXIV	4375-76	Apr.22		Marshall		Delta producers facilities map, master index map, gas pipeline route alignment and terrain data sheets
	4411			Dau	CAGPL	Productivity decrease in continued darkness, winter months
	4412-13			Dau		Possible increase in labour force to affect continued darkness
	4415			Dau		Possible shut-down due to blizzards
	4421			Dau		Consideration, location of spread camp C
	4436-37			Dau		Spread camp A, location
	4473-77			Veale Dau	CYI	Recommendations for flight path levels
	4490-94			Williams	CAGPL	Selection of the camp and stockpile site at Komakuk Beach
	4500-02			Carter	CAGPL	Aircraft lines of flight and altitudes
	4517			Veale	CYI	Information on spread camps
	4527			O'Rourke	CAGPL	Routes for shipping pipe by rail, Welland to Hay River
XXXV	4543	Apr.23		Marshall	CAGPL	Interior route, movement of pipe via Skagway/Whitehorse
	4571			Dau	CAGPL	Number of passes to weld 48" pipe
	4583			Dau		Double jointing to be done in summer or winter
	4595-98			O'Rourke		Impact of pipe transportation on NWT economy
	4644-45			Goudge	MVPI	Suggest specific questions be given to CAGPL ahead of time
XXXVI	4691	May 12		Genest	CAGPL	Wish to present information

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XXXVII	4705-23	May 13	YK	Genest	CAGPL	Input for decision on Ft. Simpson route alternative delivery of materials, routes in Yukon
	4743-44			Genest		Possible construction spread camps
	4748			Genest		Information on dredging in Shallow Bay
XXXVIII	4828	May 14		Marshall	CAGPL	Results of tests, Inuvik snow roads
	4843			Marshall		Literature survey, removal of snow from lakes on North Slope
	4874			Williams	CAGPL	Permits for borrow materials, timber, land use
	4887			Marshall		Monitoring snow road tests, Inuvik
	4941-42			Lucas	CARC	Summary of evidence for Horte Panel
	4961			Williams		Number of location survey crews
	4966-67			Dau	CAGPL	Information on V & Roam type blades
XXXIX	5003-05	May 15		Williams		Size of survey crews; V-type and roam blades
	5045-55			Dau		Standards for airstrips; number of STOL craft/spread
	5057			Dau		Use of stockpile site at Fort McPherson
	5104			Dau		When design manual available
	5167			Scott	MVPI	Reports from contractors re number of spreads
40	5199	May 16		Marshall		Joint report, participants of trip to U.S.S.R.
	5245			Marshall		Canadian Government draft report on trip to U.S.S.R.
41	5291	May 20		Carlson	CAGPL	Weight of industrial type turbines
	5366-68			Marshall	CAGPL	Possible equivalent environmental constraints on CAGPL as on Alaskan Arctic Gas
	5378-79			Carlson	CAGPL	Information of use of local people, Trans-Canada Pipeline
42	5385-87	May 21		Marshall		Trans-Canada Pipeline, native staff
	5393			Marshall		Report on aircraft charters
	5433			Marshall		Noise level, venting pipeline sections
	5438			Hurd Marshall	CAGPL	Maintenance flights, different kinds of aircraft, winter, summer seasons
	5464			Marshall		Location of environmentalists
44	5720-21	May 23		Williams	CAGPL	Diagram on the disposition of equipment, materials, pipes - looping
	5722-24			Genest	CAGPL	Studies on Fort Simpson relocation and cross delta route
	5876			Genest		Information about Peel Plateau
45	5937-38	May 24		Genest		Reports on cross-delta route change
	5946			Genest		Transportation of pipes
47	6239	June 3		Carter	CAGPL	Geotechnical and environmental studies
	6292			Templeton	EPB	Reduced 2 EPB concerns
49	6529-31	June 5		Marshall		Percentage of Prudhoe Bay field shrinkage
	6552			Marshall		Highway/pipeline interaction study?
50	6644-64	June 6		Marshall		Outstanding undertakings
	6677			Marshall		Known discoveries of gas reserves
	6681			Marshall		Gas supply to Old Crow economical?
	6687			Marshall		Route south of Old Crow and across Dempster Highway
	6714-18			Marshall		Breakdown of staff into disciplines, also O and M support staff
C-4	260-261	May 28	HR	Carter		Information on telecommunications common carriers
C-16	1504	July 13	OC	Berger		Information requested on construction camp sewage disposal
56	7816	Aug. 18	YK	Horte	CAGPL	Information on the instigation of amalgamation of joint CAGSL and WES staff in environmental and geotechnical studies
	7839-40			Horte		Questions relating to the compatibility of a pipeline and a wildlife refuge to be directed at an environmental panel;
	7863			Horte		Costs of CAGPL's training programmes
57	8114-15	Aug. 19		Bell	NWT IB/MA	Produce the Study Group agreement; to be marked as an exhibit also
59	8328-9	Aug. 21		Marshall	CAGPL	Filing of CAGPL's "Joint Research and Feasibility Study Agreement"; expenditure made in Nortran

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51	6788	Aug. 11	WH	Marshall	CAGPL	Check and correct discrepancies between figures shown on the slides and those figures on page 9 of evidence
	6823			Berger		To plan to discuss the possibility of early looping of the Prudhoe Bay Supply Line; release of naval petroleum reserve No. 4
	6825-26			Marshall		Map provided showing various areas for potential oil and gas exploration; alternative corridors and systems of transportation; capital cost of the prime route
	6859-60			Marshall		Similar cost figures; segment basis of costs.
52	6895	Aug. 12		Marshall		To make progress reports re: Chick Lake and Donnelly River studies
53	7154	Aug. 13		Clark	CAGPL	Number of miles potential frost heave for various routes
54	7585-86	Aug. 14		Anthony	CARC	To provide studies completed by Northern Engineering Services
C-18	1827-29	Aug. 5	FGH	Carter	CAGPL	To provide details of borrow sites in Fort Good Hope area
C-19	1854	Aug. 6		Rowe	CAGPL	To provide figures on acreage required for wharves and stockpile sites
	1870-72			Carter		Agreement to provide maps of stockpile sites in Fort Good Hope
63	9073	Sept. 17	YK	Marshall	CAGPL	To supply all participants with all material referred to in Mr. Hurd's letter to the Minister of DIAND re Cross-Delta route
	9162-63			Hollingworth	Foothills	To produce U.S. Steel report on crack arrestors
68	10156	Sept. 24		Dau	CAGPL	To provide average figure for spreads recommended by contractors
72	10729	Oct. 15		Marshall		To provide D. Longlitz with a report re Inuvik snow road test report
75	11101	Oct. 20		Marshall		Reports re availability of water for snow road construction; Dr. Gosen to send a copy to Parker and Berger
	11112			Marshall		Biological Report Series; water availability
	11246-47			Marshall Berger		Total capital costs re Mackenzie Valley Line and Corridor, Fairbanks Corridor and Line
78	11543	Oct. 23		Anthony	CARC	To identify report which researches the moraine deposits found in Tuk peninsula; ice core hills, depressions due melting ice
79	11692-93	Nov. 3		Minning Marshall	CAGPL CAGPL	Witness Minning to reappear when report finalized January 76
	11744			Minning		To ascertain whether five borrow sites require berms because of location of active flood plains
	11753			Dabbs	CAGPL	Progress report on revegetation at Sans Sault soon to be submitted to Inquiry
80	11777	Nov. 4		Dabbs		To produce progress report on Calgary revegetation studies
	11791			Dabbs		To advise Inquiry re change of seed mixes
	11796			Dabbs		To advise Inquiry of reason for seed mix reversal
	11829			Williams	CAGPL	To provide Inquiry with list of route changes under consideration
81	12066	Nov. 5		Minning	CAGPL	To provide Inquiry with list of "preferred" and "alternate" borrow sources
	12092			Marshall Hemstock	CAGPL	To provide copies of Hemstock's speech at waste disposal seminar
82	12137-38	Nov. 6		Hemstock		To inform Inquiry of distance between Parson's Lake facility and borrow site proposed by Producers.
	12165			Minning		Outline of borrow pits near rivers along interior route
	12195			Marshall		To explain disparity between volumes of water required by coastal and interior routes
	12235			Marshall		To provide sample of standard easement agreement

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84	12552	Nov. 8	YK	Hemstock	CAGPL	Will supply CAGPL's report on ice bridges to CARC
85	12684	Nov.12		Hemstock		Will supply specifics, storage, handling of toxic liquids
	12687-89			Marshall	CAGPL	Will supply information, toxic liquids handling, contingency plans
87	13194	Nov.14		Scott	MVPI	Requests CAGPL's terrain sensitivity map
88	13343	Nov.17		Marshall		Will supply report, aircraft movements, spreads
89	13541	Nov.18		Hemstock		Revegetation case history study of other pipelines, will be produced
	13544-46			Hemstock		Will supply studies of right-of-way vegetation
91	13864-65	Nov.20		Hemstock		Will supply report on winter construction, Canol pipeline
93	10463-65	Dec. 1		Hemstock		Reports and information desired by Berger re: canol pipeline; Hemstock personal involvement
94	14198	Dec. 2		Marshall		To clarify the scheduling of blasting - under the ice, or summer blasting, Great Bear River
	14239			Marshall		Jakimchuk study to be released upon completion, McCart's site specific recommendations
95	14410-11	Dec. 3		Hemstock		Arctic Gas , method of execution and control of the project
	14509			Hemstock		Arctic Gas aircraft needs; discussions with MOT
96	14537	Dec. 4		Marshall		To provide a copy of Northwest project Wildlife series prepared for Williams Brothers by Renewable Resources, Volume II
	14538			Jakimchuk	CAGPL	Size and distribution of musk-oxen herd in Alaska
	14543			Jakimchuk		Musk-oxen calving;
	14550			Jakimchuk		To check population of caribou given in Dr. Calef's EPB report
	14558			Marshall Jakimchuk		Check the percentage of the herd formed by yearlings
	14585			Jakimchuk		To report on "snow conditions" as dealt with in Volume 5
	14589			Marshall Veale	CYI	Precise scheduling activities
	14591			Marshall Veale		Transport of materials into the interior route
	14600-01			Marshall		Supply of the Interior route
	14616-49			McCart Jakimchuk Marshall Hemstock	CAGPL	Replies to Veale's requests for additional information on blasting on Great Bear River, river crossing; drilling through the ice; fish concerns; Dempster; stockpile locations along interior route; barging - Mackenzie River; impact on caribou re transport of materials; highway between Whitehorse and Dawson Old Crow access route; construction procedures on the interior route in the Yukon; snow conditions; winter road to Old Crow - caribou usage; caribou trails; yearling population, annual kill due to hunting
	14650-51			Jakimchuk		Recruitment of yearlings necessary to maintain the Porcupine Herd; significant decline factors
97	14710-15	Dec. 5		Banfield Jakimchuk Marshall	CAGPL	Undertaking fulfilled re information about 40-Mile Caribou Herd; response to allegations of animal harassment; information re personnel movements to spreads via aircraft
	14716			Marshall		Request for information on helicopter flights to spreads
	14822			Marshall		FPC, draft environmental impact statement
98	14916-19	Dec.8		Marshall		Recommendations re increased human access to birds will be provided
99	15028	Dec. 9		Jakimchuk		Work stoppage for migrating caribou
	15104			Scott	MVPI	CAGPL archaeological plans to Museum of Man
104	15892	Dec. 16		Bayly Steigenberger	COPE/ITC CARC	Marshall to make available Dr. McCart paper re: fish utilization of several streams e.g. for over-wintering
105	16128	Dec. 17		Marshall		Request of Mr. Scott re: access to major line break or washout; tasks at repair sites

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C-25	2569	Sept. 8	FS	Workman	CAGPL	Co-operative effort - CAGPL, Fort Simpson re: spur line, water line
C-27	2759	Sept. 10		Workman		Arctic Gas cash flow figures
C-30	2911	Oct. 6		Carter	CAGPL	Data re Canadian content of labour, supplies
123	18488	Feb. 11	IN	Carter		Amendment to application - cross delta routing as the prime route, new line to Niglintgak plant, relocation of Parsons Lake lateral, relocation of compressor stations CD-08, adoption of satellite base communication system; amendment consolidates all previous amendments in one volume
130	19833	Mar. 16	YK	Marshall		Will supply rate per day of a 36-inch dredge
131	19846	Mar. 17		Marshall	CAGPL	Will supply slope stability analysis of ditch side slopes, Shallow Bay crossing
	19888-97			Marshall Williams Hollingshead	CAGPL CAGPL	Will supply information on ditcher tooth development work not covered by proprietary agreements; dredging, ditch information re cross-Delta Channel crossings supplied
	19900-01			Marshall		Will supply water requirements for snow roads, other uses, on cross-Delta route
	19930			Williams		Will supply information on water-hauling trucks, haul distance, truck capacity, for snow manufacture
	19955-59			Williams		Will supply - list of support vessels for dredge for cross-Delta river crossings; number of days to backfill Shallow Bay trench
	19964			Williams		Will supply length of trip for gravel - hauling trucks, Delta river crossings
132	20086	Mar. 18		Marshall		Will contact Jakimchuk, McCart re promised list of recommendations to CAGPL
	20127			Marshall		Date given for producing Jakimchuk's and McCart's recommendations to CAGPL
	20129			Marshall		Will find out state of Axe Point study, when it can be produced
	20172-73			Environmental Panel	CAGPL	Will give opinions re three possible construction methods west side, Shallow Bay
133	20206	Mar. 23		Webb	CAGPL	Will try to assess impact on whales of oil pipeline across Delta
134	20207A-13	Mar. 24		Environmental Panel	CAGPL	Reactions to construction methods, west bank, Shallow Bay crossing, to allow for erosion
	20211			Webb		Possible impact on whales of oil pipeline in same corridor supplied
	20233			Marshall		Will supply amount of boat, air traffic allowed in late June, July, West Mackenzie Bay
	20246			Marshall		Will supply boat traffic information, Shallow Bay crossing
	20272			Webb		Will phone Dr. Fisher re impact of North Sea drilling on whales
	20282-86			Marshall McCart	CAGPL	Will find out if first report on cross-Delta environmental considerations has been filed; will find out when report available on sediment carrying in Delta channel crossings
	20301			Marshall		Will supply details of erosion controls measures, west side of Shallow Bay
	20333			Gunn	CAGPL	Will supply numbers of moulting waterfowl in Shallow Bay
135	20425-28	Mar. 25		Marshall Gunn		Jakimchuk's recommendations will be supplied soon; will supply copies of "Water Availability Along the Arctic Gas Pipeline Route, Prudhoe Bay to Delta."; will supply copies of "Report on Pipeline Noise Studies"; Gunn's information on moulting waterfowl concentrations, Shallow Bay
	20537-38			Hemstock	CAGPL	Will supply barge traffic support figures for Shallow Bay crossing, air traffic support for cross-Delta route construction, maintenance
	20567-70			Webb		Supplying information on artificial islands as hindrance to ice movements, Beaufort Sea; re letter from Dr. Fisher about small whales, North Sea

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148	22567	Apr.29	YK	Steeves	CAGPL	To determine source of number of trappers, whether CAGPL figures originate from Gemini North survey, 1972
C-44	4285	Mar.9	TUK	Carter	CAGPL	Will check into Dr. Schwartz's allegation re Brodie's whale study shelved by Slaney Associates
C-45	4352-54	Mar.10		Carter		Has fulfilled request re Brodie's whale study; Slaney's report entitled "Environmental Impact Assessment, Immerk Artificial Island Construction Mackenzie Bay, N.W.T."
158	24296-97	July 6	YK	Trusty	CAGPL	To provide Scott with copy of "Building in the North"
159	24413-14	July 7		Boorkman	CAGPL	To provide information on Fairbanks revenues, percentage from property taxes, sales tax, grants from other governments
159-A	24553			Trusty		Figures for unemployment insurance, welfare recipients, NWT
161	24929	July 12		Trusty		To provide passage in Jamieson's evidence re level of exploration, investment if pipeline not built
162	24941	July 13		Trusty		To provide information on Katovik, Alaska, employment arrangements with Alaskan Arctic Gas
	24992-93			Williams	CAGPL	To provide information of numbers of people involved in security force on any given construction spread; numbers involved as inspection personnel
163	25263	July 14		Hobart	CAGPL	To provide details of government incentive program, return to traditional ways
164	25366	July 15		Hobart		To provide further information on his evidence re four conditions necessary if pipeline should proceed prior to land claims settlement
--	25478-86			Trusty	CAGPL	To provide estimates, additional personnel needed, commercial air operations contracting services to Arctic Gas; to provide further information re graph, p.42 of Van Ginkel report
197	30979	Oct.13		Ziskrout	CAGPL	Will respond to questions posed by Scott re CAGPL's position on frost heave
199	31487-93	Oct.15		Steeves	CAGPL	Has provided data concerning fault in test cells in question of frost heave
200	31637	Nov.15		Genest	CAGPL	To prepare detailed responses to recommendations of other participants
201	31716-21/2	Nov.16		Genest		Statement by Trusty - native employment on pipeline - skilled jobs of continuing use

CHURCHES

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145	22113-57	Apr.26	YK	Clarke	NWT IB/MA	Presentation of evidence by Catholic and Anglican churches
	22131			Clarke		World Council of Churches; role of transnational corporations in take over of Indian lands
147	22419-20	Apr.28		Richardson	NWT IB/MA	Influence of Anglican and Catholic structures in education, northern Quebec
150	22867	May 4		Hills	NWT IB/MA	Presbyterian Church mission, aborigines in Australia
156	23907-16	Jul.1		Gillie	NWT IB/MA	Role of church in formal education, not trying to impose new culture as much as later programmes
C-49	4774-75	May 10	VAN	Maultsaid	Citizen	Canadian Council of Churches
C-51	5106-07	May 12		J. Stokes	Citizen	Resolutions of Anglican Diocese of Caledonia
	5162			T. Eden	Citizen	Telegram, National Executive Council of the Anglican Church of Canada
C-55	5886	May 18	EDM	H. Cardinal	Citizen	Religious struggles, Catholic and Protestant churches, impact on native people
C-64	7206-33	June 3	OTT	Hatton	Citizen	Project North, inter-church project on Northern development
167	26048-50	July 21	YK	Brody	COPE/ITC	Rate of adoption of Christianity by native people
168	26059-63	July 22		Brody		Impact of Christianity; maintenance of modified aboriginal religions
172	26796-97	Aug. 18		McDiarmid	Citizen (COPE/ITC)	Only one United Church congregation north of 60°-in Yellowknife

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XVIII	2011-20	Mar. 14	YK	Bayly Dau	COPE/ITC CAGPL	A factor in route selection; climatic data; methodology snow and need for snow/ice roads; consultation of natives
XIX	2194-95 2207-08	Mar. 17		Clark Williams	CAGPL CAGPL	Test sites; collection of meteorological data Sans Sault test site; working in cold temperatures
XXIII	2702-03	Mar. 21		Williams		Snow roads, snowfall, water required
XXV	3003	Apr. 8		Hardy	CAGPL	Factor in river crossings
XXVII	3329	Apr. 10		McRoberts	CAGPL	Heavy rain, fog storms, Sans Sault test site, meteorological station
	3379-81 3403-04			Scott Slusarchuk	MVPI CAGPL	Wind velocities, ambient temperature, cloudcover Predicting temperatures, June
XXVIII	3473			Scott		Non-permafrost regions, soil freezing
XXIX	3581-82 3631	Apr. 14		McRoberts McRoberts		Temperature increase between winter and summer Cracking of frozen ground in extreme temperatures
XXX	3729 3735	Apr. 15		Purcell Purcell	CAGPL	Design and future operation, compressor stations Compressor stations, wind velocities, ambient conditions
	3739 3797			Purcell Purcell		Northern marine environment, corrosion Gas composition, low temperatures
XXXI	3948	Apr. 16		Koskimaki	CAGPL	Compressor stations, temperature inversions, wind velocity
XXXII	4143-44 4152-53	Apr. 18		Koskimaki Holmberg	CAGPL	Wind - higher levels of sulphur dioxide at ground level Welding in cold climate - excess hardness
XXXIII	4305-06	Apr. 21		Dau	CAGPL	Snow roads - harvesting of snow
XXXIV	4415-16 4480-81	Apr. 22		Dau Dau		Yukon North Coast, blizzards, possible shut-down of construction Weather conditions, winter time
XXXV	4554-58 4572 4608	Apr. 23		Dau Dau Williams		Blizzards taken into account re time to move camps Automatic welding equipment, cold temperature tests Ditchers, testing lowest temperature for operation
XXXVII	4737-39 4758-59 4819-20	May 13		Bayly Bayly O'Rourke	COPE/ITC CAGPL	Weather conditions, North Slope, meteorological studies downtime Summer construction, July until freeze-up Snow fall, ditching, subsidence
XXXVIII	4828 4905 4914-18 4957-59 4992-5002	May 14		Bayly Williams Lucas Williams Genest	CAGPL CAGPL CARC CAGPL CAGPL	Summer testing, site of snow road Meteorological data; beginning of snow road construction, October 1 Welding under adverse weather conditions; extremes of temperature Winter/summer surveys Snow depths
XXXIX	5005-33 5064-65 5092-96 5135	May 15		Williams Williams Dau Harlan	CAGPL CAGPL CAGPL CAGPL	Snowfall, use of snow roads at end of season thaw Snow accumulation and manufacture Snow for a working surface Rainfall - runoff, flood frequency, erosion
C-II	90-92 112-14 140-43	Apr. 3		J. Sittichinli J. Sittichinli Ookpik	Citizen Citizen	Winter storms Shallow Bay Severe cold winters, ice on Shallow Bay
53A	7359-75	Aug. 13	WH	Geist	CARC	Effect on vegetative productivity
55	7615-17 7634-35	Aug. 15		Hughes Morlan	CARC CARC	Distribution of permafrost dependent on climate, vegetation, organic cover, winter snow cover Climate change over time; change resulted in mammal and vegetation change over time
63	8991-92 9006	Sept. 17	YK	Lazerte Beer	Foothills Foothills	Seasonal change; release of treated wastes Warm sunny days sound waves are bent upwards; temperature inversions trap noise; attenuation decreases as relative humidity increases especially high frequency noise

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63	9092-94	Sept. 17	YK	Beer	Foothills	Temperature & humidity discussed in relation to the conduction of noise from compressors & blowdowns
	9147-48			Holtsbaum	Foothills	Effects of climatic factors on corrosion
64	9226-27	Sept. 18		Hushion	Foothills	Effect of Arctic climate on automatic welding machine use
	9235-40			Hushion		Atmospheric corrosion of pipe at stockpile sites
	9303			Spafford	Foothills	Establishment of maximum rate of river flow by consulting DOE records of precipitation & temperature
	9309			Spafford		Differential level of water determined by Beaufort Sea coast winds
	9423-25			Spafford		Use of weather statistics in river studies
65	9629-38			Jarvis	Foothills	Use of weather records in determining snow availability for roads
66	9654-57	Sept. 22		Mirosh Kosten	Foothills Foothills	Commencement of pipelaying dependent upon weather conditions
	9666-67			Kosten		Ditching in December dependent on weather conditions
	9702-03			Kosten		Effects of climate on scheduling - darkness, cold
	9706-07			Jarvis		Estimation of snow levels difficult due to wind sweep
	9716-23			Kosten Jarvis		Operations not feasible in darkness even with artificial light; safety precautions; snow harvesting
	9730			Kosten		Total darkness in December
	9737-41			Jarvis		Snow availability; ground temperatures; weather statistics
	9744-45			Mirosh		Icing, visibility problems for helicopters; impact of cold on instrument flight rule equipment
	9767-71	Sept. 22		Kosten		Start of construction in Inuvik, Fort Norman areas
	9784-9800			Kosten	Foothills	Shutdown temperatures & conditions
	9825-27			Jarvis	Foothills	Contingency plans for obtaining snow; effect of light conditions
67	9857	Sept. 23		Jarvis		Practical temperature for snow-making
	9918-20			Jarvis		Reduction of productivity of spreads due to light and temperature conditions
	9945-49			Kosten		Application of frost penetration prevention techniques north of 60°
	9964-65			Mirosh	Foothills	Productivity increase in summer work in daylight
	10027			Jarvis		Depth of frozen material under road surface for snow roads
	10044			Hushion	Foothills	Adverse weather conditions may necessitate ploughing of airstrips prior to use
	10056			Hushion		IFR requirements in darkness for landings
68	10127	Sept. 24		Mirosh		Duration and conditions of shipping season
	10131			Dau	CAGPL	Assessment of climatic conditions by contractors
	10154-55			Williams	CAGPL	Problems of working in cold and darkness discussed by contractors
	10158			Williams		Length of winter season in Alberta
	10163-70			Williams		Work stoppages; non productive days due to weather; shelters on construction sites
70	10558-63	Sept. 26		Longlitz	MVPI	Amount of snowfall, depth of frost penetration, impact on winter construction; start-up and shut-down dates
	10575-77			Lewis	MVPI	Regional thickness of permafrost; freezing of north slope rivers; temperature regimes; spring flows; storm floods; seasonal variation in river flow
72	10772	Oct. 15		Lewis		Precipitation; Babbage Delta, Kay Point area
74	10972-11013	Oct. 17		Williams	CAGPL	Snow cover; frost penetration; start-up and shut-down dates of snow roads; influences on depth of frost penetration and frozen layer
78	11643-44	Oct. 23		Minning	CAGPL	Variances along route from coastal Arctic at Beaufort Sea to interior sub-Arctic along Mackenzie Valley; studies re: temperature, precipitation at Fort Good Hope, Fort McPherson, Fort Norman and Norman Wells

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79	11733	Nov. 3	YK	Harlan	CAGPL	Conditions contributing to ground and river icings
	11736			Harlan		Open water leads in winter-occurrence of icings
	11765-66			Hollingsworth	Foothills	Requirement of certain species for 24-hour sunlight
80	11774	Nov. 4		Dabbs	CAGPL	Unpredictable damage of crops by weather phenomena
81	11965-67	Nov. 5		Dabbs		Scheduling of seeding operations along mainline and coastal route
	12126-28			Clark	CAGPL	Design of berms at borrow site to withstand maximum storm
82	12151-52	Nov. 6		Dabbs		Effect of climatic events on revegetation program
	12181-84			Dabbs		Effect of climate on plant cover
83	12334	Nov. 7		Dabbs		Heavy rain in Kotanelee Valley, Pointed Mountain Pipeline washed away seed, 1972-73
84	12590-92	Nov. 8		Bayly McCart	COPE/ITC CAGPL	Komakuk Beach, storms on Beaufort Sea, inland
85	12651-53	Nov. 12		Harlan		Aquifer dependency on precipitation
85-A	12793-94	Nov. 12		Scott Hemstock	MVPI CAGPL	Nitrogen dioxide levels at wind velocities, under inversion
86	12855-71	Nov. 13		Vaartnou	Foothills	As effects revegetation; local species
	12992-13058			Gibbs Williams	Foothills CAGPL	North Slope and Fort Simpson spreads; production rates, down time, winter construction
87	13084	Nov. 14		Bayly Reeves	COPE/ITC Foothills	Archaeological work, winter, permafrost, difficulties
88	13330	Nov. 17		Vaartnou		Plants grow slowly in north
89	13471	Nov. 18		Jakimchuk	CAGPL	Physiological adaptations to cold, caribou
	13535			Dabbs	CAGPL	Effects on vegetation organisation
91	13864	Nov. 20		Berger Hemstock	CAGPL	Winter construction, Inuvik area; Canol pipeline
94	14316	Dec. 2		Jakimchuk		Migration - dates of arrival and departure - may depend on weather conditions
95	14471-72	Dec. 3		Hemstock		Weather - impact on flight altitude, cancellation, and re routing
96	14584-86	Dec. 4		Jakimchuk		Snow depth and characteristics re interference with caribou migration
	14637-44			Jakimchuk		Snow depth and characteristics, impact on caribou migration
	14676-78			Jakimchuk		Snow availability re snow roads and fences; prevailing winds on the North Slope
97	14711	Dec. 5		Banfield	CAGPL	Effects on calving, 40-Mile Caribou Herd
	14727			Jakimchuk		Moose, winter movements, habitat
	14780			Templeton	EPB	50 year floods, engineering uses
98	14974	Dec. 8		Jakimchuk		Caribou movements produced by weather
	14988			Gunn	CAGPL	Late snow conditions, effects on snow geese breeding
100	15375	Dec. 10		Whitney	Foothills	Snow conditions on ROW may differ from surrounding areas
105	16080	Dec. 17		Steigenberger	CARC	Winter-critical time of year on North Slope re: fish
	16140-44			Lent	CARC	Caribou wintering areas; factors re: variations in winter distribution; insect season; movement of caribou in relation to coast re: weather conditions
106	16168	Dec. 18		Lent		Unusual ice conditions re: Arctic Coast of Alaska
	16231-32			Calef	CARC	Snowfall at Coppermine re: tundra wintering of caribou
107	16301	Jan. 12		McT-Cowan	EPB	Fogs on the coast require flights at altitudes which could disturb wildlife
	16360-64			Adam-Berger	EPB	Availability of snow on the North Slope - construction of snow roads
108	16431	Jan. 13		McT-Cowan		Fog on the coast-low altitudes for overflight of caribou
	16433			McT-Cowan		If there were heavy onshore winds in the Peel River - flooding, an oil spill could be disastrous

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110	16793-94	Jan. 15	YK	Bergerud	CARC	Wind chill, weather - impacts on calf survival
111	16915	Jan. 16		Calef		Caribou arrival time at calving grounds depends on snow conditions
	16933-35			Bergerud		Optimum critical winter range for caribou, different conditions
	16959			Bergerud		<u>Wind chill mortality</u> in caribou
112	17041-44	Jan. 20	IN	Bliss	GPC-D	Aklavik-Inuvik area, Tuktoyaktuk area snow depth north of Lake Sitidgi
	17106			Bliss		Bad storm carrying spilled toxic materials into inner Delta
113	17244	Jan. 21		Hobart	GPC-D	Native workers preferable because are adapted to cold
114	17365-67	Jan. 22		Mainland	GPC-D-I	Taglu gas field, storm flooding of area, precautions
	17391			Mainland		Taglu gas field, wave height during storm
115	17459-64	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, subject to storm surges from Beaufort Sea, protection against flooding
	17495-96			Faulkner		Niglintgak gas field, storm surges causing gas line rupture
	17566			Gwyn	GPC -D-G	Climatic, wind conditions have to do with ice fog formation.
121	18388-93	Feb. 10		Grainger	COPE/ITC	Fig. 1 - Eastern Canadian Arctic - annual variation in - thickness of ice cover, snow cover over ice, sunlight penetration of sea water
122	18589-92	Feb. 11		Barry	COPE/ITC	Frequency, impact, predictability of major storms in Beaufort Sea
122	18666	Feb. 11	IN	Barry	COPE/ITC	Forecasting of ice conditions
124	18875-83	Feb. 13		Shearer	COPE/ITC	Historical summary - offshore permafrost, pingo formation
	18902-04			Lewis	COPE/ITC	Frequency of storm surges in Beaufort Sea
	18933-40			Milne	COPE/ITC	Growth, movement, decay of sea ice in Beaufort Sea; storm surges
	18957-58			Milne		Marine oil blowout - failure to influence climate
	18965-67			Milne		Frequency of weather system movement through Beaufort Sea, wind directions - oil dispersal from blowout
	19008-13			Milne		Impact of marine oil blowout on climate
125	19055-62	Feb. 14		Lewis	COPE/ITC	Seasonal storm surges
130	19760	Mar. 16	YK	Hollingshead	CAGPL	Flooding in outer Delta due to summer storms
	19816			Williams	CAGPL	Flooding in summer storms
131	19926-28	Mar. 17	YK	Berger Williams	CAGPL	Working in cold, construction scheduling, North Slope; Alyeska experiences
	19931-36			Williams		Wind problems with snow making equipment; working temperature limits
	19941-46			Gibbs Williams	Foothills	Effects of cold on workers, equipment, Christmas leave
	19974			Hollingshead	CAGPL	Extra water flow at Delta river crossings due to Beaufort Sea, storms
	19989-90			Williams		Allowing for delays by weather, Shallow Bay crossing

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132	20105	Mar.18	YK	Clark	CAGPL	Berm material on Delta should be granular to resist storm surges
134	20251-52	Mar.24		Gunn	CAGPL	Effect of early snow on North Slope on geese, slides shown
	20267-72			Webb	CAGPL	Effects of ice conditions on whale movements
136	20617-18	Mar.26		Dabbs	CAGPL	Arctic coast climate makes revegetation on "DEW line route" difficult
	20620			Hemstock	CAGPL	Snow available earlier along "DEW line route", North Slope
195	30498-22	Oct.7		Kosten	Foothills	Winter conditions - impact on construction equipment productivity on Delta, North Slope
	30527-51			Kosten		Winter conditions - impact on labour force productivity
	30556-74			Kosten		Labour productivity at -35° Fahrenheit
	30604-18			Dau	CAGPL	Snow road construction at Inuvik, productivity losses due to wind chill at Inuvik, Komakuk Beach, Shingle Point, Tuktoyaktuk; calculation of equivalent wind chill
	30633-46			Daniels Fowler Rymes	CAGPL CAGPL CAGPL	Wind chill not valid as an absolute factor determining construction shut down; warm-up shelters employed to counteract cold temperatures; men, equipment capable of handling temperatures well below -60° Fahrenheit
	30647-51			Fowler		White-outs, ice fog impact on productivity
195A	30681-96	Oct.7		Bayly Fowler Rymes Daniels	COPE/ITC	Ten ways in which climate conditions on North Slope may slow down or shutdown the project
	30753-59			Dau	CAGPL	Methodology employed in calculation of winter construction season on Arctic coast

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XXXIX	5080	May 15	YK	Williams	CAGPL	Impact of blasting - no research
47	6165-66	June 3		Wilimovsky	EPB	Mortality rate, government monitoring
C-4	263-274	May 28	HR	Stewart	Citizen	Would be unable to compete with wages offered by pipeline
	292-300			Morin	Citizen	Native people, Hay River area
	310-12			Studney	Citizen	Wages of fisherman should be subsidized to compete with pipeline
C-20	1925-26	Aug.7	FGH	W. Kakfwi	Citizen	Disparity in small business loan program
C-21	2089-91	Aug.9	NW	G. Monuik	Citizen	Northern businesses - difficulty of preparing for pipeline
	2107			G. Loomis	Citizen	Chamber of Commerce in favour of pipeline
	2183-92			R. Sinotte	Citizen	Participation of local industry in pipeline project
	2213			W. Fraser	Citizen	Failure of Indian & Eskimo loan program
C-23	2310	Aug.14	WH	R. McKaymie	Citizen	Bankruptcies of small service businesses
85-A	12753	Nov.12	YK	McCart	CAGPL	Possibility on some critical rivers
	12782			McCart		Hatcheries as aid to fishing
92	13956-57	Nov.21		McCart		Potential for, at Firth River
100	15311-18	Dec.10		Hayden	Foothills	Potential conflicts, protection measures, further information required
	15327-32			Hayden		Fishery recently established on Holmes Creek, reason for relocation of line
103	15737	Dec. 15		Stein	CARC	At river mouths
	15742			Stein		Increased demand after pipeline construction
	15751-52			Walker	CARC	Along Prime, Interior routes, Fort Yukon, Fairbanks corridors
	15832-33			Stein Marshall	CAGPL	Impact of edge of Shield Route on Great Slave Lake
104	15912	Dec. 16		Bayly Steigenberger	COPE/ITC CARC	In the Porcupine drainage
	15951-52			Stein		Commercial fishery potential in Mackenzie Valley

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105	15988	Dec. 17	YK	Stein	CARC	Increased pressure on fishery resources by commercial fisheries
	16087-91			Walker	CARC	Increase in commercial fisheries re: access; conflict between kinds of fisheries, commercial, and sport in south Yukon; attempts to resolve conflict; effects of increased commercial and sport fisheries on domestic fisheries
C-31	2992	Oct. 7	FR	Sayine	Citizen	Water pollution from Pine Point mines - impact on fisheries
	3022-23			Menez	Citizen	White man exploitation of fisheries
C-32	3082-83	Oct. 8		Lockhart	Citizen	Interference by big commercial fishermen
116	17653	Jan. 24	IN	Rempel	GPC -D-I	Effect of development, over-exploitation in Ya Ya Lake
121	18436-37	Feb. 10		Stein	COPE/ITC	Importance of Delta inshore zone re commercial fishing
	18474			Sergeant	COPE/ITC	Commercial fishery at Churchill
122	18496	Feb. 11		Sergeant		East coast harp seal fishery - cost of belated catch controls
	18555-60			Stein		Holmes Creek fishery - use of site for fish spawning study
127	19448	Feb. 17		Trudeau	COPE	Department of Fisheries involvement on Great Slave Lake
128	19519-20	Feb. 18		Trudeau		Impact of pipeline construction on fisheries resources
136	20695	Mar. 26	YK	Peet	MVPI	Criteria for commercial developments
	20705-18			Peet		Regulations; fishing locations; general information
	20718			Peet		Room for commercial in addition to domestic fishing
	20721-27			Peet		Holmes Creek fishery; sports fishing for construction crews; conflict between commercial and domestic
	20737-52			Peet		Studies; information; regulation
	20758-67			Peet		Experiences at Lac La Martre, Cambridge Bay; supply construction camps; development of fisheries; Great Slave fishery
165	25516	July 19		Ellwood	Foothills	Potential pressure on local fish stocks because of construction workers' fishing
C-69	7944-45	July 17	KL	H. Simba	Citizen	Attempts to set up fishing, Kakisa Lake
186	28933-36	Sept. 16	YK	Currie	COPE/ITC	Eel farming in Japan; trout fishing - Stikameg Lake
193	30097	Oct. 5		Hernandez	ETB	Fishery - East Channel crossing near Holmes Creek - construction activities should be located, timed, carried out to avoid impact on fishery
197	31007	Oct. 13		Bergasse	MVPI	Fishery on Great Slave Lake, role of Department of Economic Development in developing capacity to utilize resource
	31016-17			Bergasse		Damage to fishing industry on Great Slave Lake, if pipeline

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170	26447-56	Aug. 16	YK	Burrell	Foothills	Foothills helping other businesses; encouraging entrepreneur ship for local northern businesses; specific opportunities, Mackenzie Pipeline Business Opportunities Board
	26488-90			MacLeod	Foothills	Local businesses holding on, waiting for opportunities to be generated by pipeline
	26495-503			MacLeod		Businesses of the north having to pull out due to delays in development, prospect for the pipeline must remain positive if they are to stay
	26511-13			Burrell		Purchasing in communities by Contractors and sub-contractors must be done so that there are no adverse effects; i.e. depleting local market of a product

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171	26566-75	Aug. 17	YK	Burrell MacLeod	Foothills Foothills	Opportunities of business expansion, problem if no longer serve community, counterbalancing of profit motive; provision of incentives to invest
175	27224-28	Aug. 23		MacLeod	NWT/CC	Majority of northern businessmen anxious to participate in pipeline development; recommendations to solve major difficulties facing northern businessmen
	27231			MacLeod		Restrictive definition of northern business; advantages of local entrepreneur
	27263-64			Hinchey	NWT/CC	Proposed establishment of a Mackenzie Valley District Business Association, responsibilities, funding
	27272			Hinchey		Proposed Mackenzie Valley Business Association
	27278-80			MacLeod	NWT/CC	Definition of "northern business" standards for management skills
	27291-92			Carter Hinchey	CAGPL NWT/CC	Role of government and pipeline companies in Mackenzie District Business Association
	27296-99			MacLeod		Included craft shops in survey of business community; will not be able to offer equal benefits to employees as pipeline companies
	27312-15			Ashton	NWT/CC	Mackenzie Pipeline Business Opportunities Board, purpose to maximize northern business participation in development; representative of land-based businesses on Board
	27317-21			Hinchey		Keeping the community supplied when goods or services have been sold to pipeline contractors; lead time to resupply
	27335-36			Roland MacLeod	MVPI	Protection of businesses not expected to benefit from rapid development
	27351-52			Hinchey		Bid depository controlled by Mackenzie Valley Businessman's Associations; registration of Northern Businesses in Association
178	27609-11	Aug. 26		Pritchard	MVPI	If construction period three years expansion due to higher income, if stretch out will expand to serve pipeline; need for government financing and advice
	27737-38			Merrett Prichard	MVPI	Capability of communities, to make capital investment, size as factor, risks involved
179	27774-76	Aug. 27		Runge	MVPI	Government should encourage local industry to produce housing, both private and public
180	27994-97	Sept. 7		Nessel Whiteford Dyck St. Eloi	MVPI MVPI MVPI MVPI	High wages may cause prices to rise; business employees leave to work on pipeline
182	28377-78	Sept. 9		Clarke	COPE/ITC	Chamber of Commerce to NWT doubts benefits to local business; inability to compete with wages of multinational corporations
183	28403	Sept. 10		Clarke		Financing of loans for local enterprises
190	29649-53	Sept. 23		Taylor	NWT/AM	Hay River central business district, expansion; effect of pipeline on commercial development; highway commercial development; commercial development on Vale Island
197	30988-89	Oct. 13		Bergasse	MVPI	Entrepreneurial opportunity study of Mackenzie Highway and pipeline corridor by Resources Management Consultants Ltd; appointment of co-ordinator of business development
	30997-99			Bergasse		Effect of pipeline on existing businesses and employment; inflation of local prices, unemployment; joint venture model, Denemat Construction Company
	31018-20			Bergasse		Retail stores in Mackenzie communities, viability
200	31691-96	Nov. 15		Genest	CAGPL	Commission Counsel Report, inconsistent position on activities of domicile firms, responsibility for wage and price increases in the business sector
203	32173	Nov. 18		Veale	CYI	Entrepreneurial opportunities will not be capitalized by Old Crow

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204	32271	Nov.19	YK	Ballem	GPC-D	Importance of pipeline to northern business
	32297-98			Erion	NWT/CC	Development important to business; active local small business encouraged
--	32336-44			Parker	NWT Govt	Guarantees of contracts rather than direct leasing; Mackenzie Valley Business Opportunities Board, establishment of bid depository; housing construction, special loan funding; regulation of business, Business Advisory Group

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88	13273-77	Nov.17	YK	Berger		NWT Chamber of Commerce request to increase pipeline construction to four years
C-25	2480-83	Sept.8	FS	Erion	NWT CC	Inventory of northern business capacity, company syndication re construction demands
C-27	2772-74	Sept.10		Grnon	Citizen	Hudson's Bay Company re exploitation of northern people; Catholic church re opposition to pipeline
C-33	3122-23	Oct. 9	FS	Carther	CAGPL	"established" northern businesses given preference, encouragement for establishment
	3135-40			Gauthier Berger Mirosh Ellwood	Citizen Foothills CAGPL	Private enterprises' share in project, control within companies; Business Development Board re: advice to businessmen, watch dog committee
	3195			Leishman	Citizen	Impact on businesses re: population growth
C-34	3352	Oct.16	YK	Castille	Citizen	Problems of developing business re: manpower
C-36	3470-71	Jan.28	IN	Chaney	Citizen	Southern businessman - exploitation of northern people
	3503	Jan.29		Burrell	Foothills	Foothills - support of Mackenzie Valley Business Opportunities Board
C-37	3580	Feb.10		Berger		Pipeline potential benefits to northern businesses
	3611			Cardinal	Citizen	Business investment in north re development expectation
C-39	3704	Feb.18		Robertson	Citizen	Supplies bought or trans-shipped through Inuvik
	3715			Hill	Citizen	Chamber of Commerce's representation of businesses
	3719			Hill		Most community services funded by outside taxes
	3722-25			Hill	Citizen	Formation of resident business liaison to ensure involvement of local businesses
	3727			Hill		Matched wages and prices between local business and pipeline operations
	3730			Hill	Citizen	Local purchase of supplies by contractors
112	17086	Jan.20		Bliss	GPC-D	Sawmill in Fort McPherson
113	17207	Jan.21		Hobart	GPC-D	If natives adequately trained northern businesses won't have to import white workers
116	17625-26	Jan.24		Stamberg	GPC-D-G	Moving construction materials by local transportation businesses
147	22491	Apr.28	YK	Nahanni	NWT IB/MA	Hudson's Bay Company, received compensation for land belonging to natives, historical
148	22560-61	Apr.29		Snowshoe	NWT IB/MA	Hudson's Bay, trappers not being able to charge anymore when buying goods
	22673			Kodakin	NWT IB/MA	Selling fur to Hudson's Bay and the co-op in Fort Franklin
	22683-86			Asch	NWT IB/MA	Competition between Hudson's Bay Company and Northwest Company, united 1821, fur trade
	22712			Asch		The co-op in Wrigley
149	22771-72	May 3		Ritter	NWT IB/MA	Peel River post, fur trade
150	22981-83	May 4		Bean	NWT IB/MA	Movement of businesses into the small communities
153	23423-24	May 7		Sharp	CYI	Bar in Ross River, use by white construction workers
	23439-40			Sharp		Store at Ross River, large debts run up by natives; impact of bar
	23520			Sharp		Co-op store in Ross River

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154	23583-84	June 29	YK	Watkins	NWT IB/MA	Hudson's Bay Company - land use, ownership
C-55	5769-80	May 18	EDM	J. Barry	Citizen	R. Angus Ltd., distributor for Caterpillar Tractors, other suppliers
160	24715-17	July 8	YK	Asch	NWT IB/MA	Co-op in Fort Wrigley
162	25078-85	July 13		Trusty	CAGPL	Guidelines for Northern Pipelines, requirements re local procurement, materials, supplies
163	25229-30	July 14		Trusty		CAGPL, liaison group to help oversee procurement of materials
164	25417-19	July 15		Trusty Berger		Local businesses, supply of goods and services
167	25916	July 21		Usher	COPE/ITC	Small businesses, dependence on large metropolitan institutions
	25929-30			Usher		Need for community control over establishment of enterprises
	26001-02			Usher		Allen's, Inuvik, selling country food
168	26085-90	July 22		Brody	COPE/ITC	Ireland, emergence of new entrepreneur, possibility of same situation in the north
169	26234	July 23		Stanley	NWT IB/MA	Plant manufacturing moccasins, Indian dolls, Albuquerque, New Mexico

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XXIX	3649	Apr. 14	YK	Purcell	CAGPL	Requirements for construction & operation
XXX	3741-55	Apr. 15		Purcell		Microwave, satellites, cable, sub-systems
	3760			Purcell		Coating material, cathodic protection
XXXII	4003-17	Apr. 18		McMullen	CAGPL	Microwave system - owned or leased
	4017-19			McMullen		Long distance operators, voice channels
	4146-50			McMullen		Failure of communications towers, use of public system
XXXIII	4232	Apr. 21		Dau	CAGPL	Construction, installation summer '76
	4323			Dau		If satellite used, little use of winter trails
40	5225-26	May 16		Hurd	CAGPL	Equipment to monitor; maintenance systems
80	11858-59	Nov. 4		Hemstock	CAGPL	Problems involved in establishing system for east of Franklins route
85	12702	Nov. 12		Hemstock		Included in corridor
94	14199	Dec. 2		Marshall		CAGPL to opt for satellite communication system
122	18488	Feb. 11	IN	Carter	CAGPL	CAGPL application - adoption of satellite base communication system
162	25076-78	July 13	YK	Trusty	CAGPL	CAGPL satellite system; discussions for service agreement for system design; leasing from established services

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XXX	3742-55	Apr. 15	YK	Purcell	CAGPL	Telephone, satellites
XXXII	4006-10	Apr. 18		McMullen	CAGPL	Excess channels available
50	6703-04	June 6		Horte	CAGPL	Probable use of Telesat but no decision yet
C-4	259-265	May 28	HR	Monroe Carter	Citizen CAGPL	Increase in facilities; satellites
C-17	1661	July 16	FL	H. Deneron	Citizen	No television or radio from N.W.T. available in Fort Liard
	1717-8	July 17		J. Bonnetrouge	Citizen	C.B.C. broadcasting in native languages
	1763-4			H. Deneron	Citizen	No radio, television available from N.W.T.
C-23	2349	Aug. 14	WH	I. Warner	Citizen	'One way' service by Anik satellite

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62	8888-8965	Sept.16	YK	Mirosh Scrimmes	Foothills Foothills	Telesat Canada Ltd., Canadian National Telecommunication system; Alberta Government Telephone System used by AGTI. Anik series, Telesat business to provide satellite services re a guaranteed probable length of services; international confrontations; security; Bell Canada, channel capacity; equipment supplied by common carrier; communication services provided for construction workers; ability to service the common consumer, CNT will have to make certain capital costs, services and maintenance in order to provide Foothills with service
76	11235	Oct.21		Parker	CARC	Improved communications required re Native employment in Alyeska project
78	11534	Oct.23		Roed	CARC	Corridor concept; facilities - communication and transportation following one after the other
--						
78	11570-71	Oct.23		Roed	CARC	Mackenzie River re: corridor concept
85	12702	Nov.12		Hemstock	CAGPL	Included in corridor
86	12840	Nov.13		Claridge	Foothills	Drainage control, CNT right-of-way
90	13646-47	Nov.19		Hemstock		Corridor selected because communications systems already there
100	15333-42	Dec. 10		Whitney Bouckhout	Foothills Foothills	Relocation of pipeline along abandoned CNT line, mile 90 to mile 120
101	15528-30	Dec. 11		Zoltai	CARC	Possible use of abandoned CNT line; terrain suitability
102	15543-45	Dec. 12		Zoltai		Using abandoned CNT line; construction of line; construction of line, present problems
105	15996-97	Dec. 16		Marshall	CAGPL	9 a.m. C.B.C. national news re: summation of panel evidence
106	16200-01	Dec. 18		Calef	CARC	Transmission line re: Churchill Falls Dam, Labrador
C-24	2397 2404-07	Aug.23	TL	E. Jumbo E. Jumbo	Citizen	CBC in Yellowknife re reports on dead fish. Reporting by C.B.C. of the Fort Liard community hearing
C-33	3159 3193	Oct. 9	FS	Mercredi Leishman	Citizen Citizen	Back to the land ideas communicated via radio and television "Mackenzie Pilot"; television and radio - too much information for public to absorb
C-34	3368-69	Oct. 16	YK	Pollock	Citizen	"News of the North" article; "Yellowknifer" clipping re: native input
C-36	3489-90	Jan. 28	IN	B. Allen	Citizen	Compliments re: C.B.C. coverage of hearings
C-39	3710	Feb.18		Robertson	Citizen	Telephone rates, overloading of telephone exchange
116	17629-30	Jan.24		Stamberg	GPC-D-G	Communication between Parsons Lake and head office telephone, microwave system, Anik satellite
118	17927-29	Jan. 27		Bayly Tod	COPE/ITC GPC-D-I	Telephone system upgraded, impact of development, long-range planning
130	19744-45 19752-54 19779	Mar. 16	YK	Williams Purcell Williams	CAGPL CAGPL	Using satellite system, no need for most of intermediate sites; 3 towers located remotely from compressor stations Recommendation of satellite system by design group; facilities required for system Effect of satellite communication system on operation and maintenance plan
133	20135	Mar.23		Rowe	CAGPL	Adoption of Telesat system
153	23446	May 7		Sharp	CYI	Installation of telephone in Ross River
C-54	5603-04	May 17	FDM	Berlie	Citizen	Need for proper communications before further development

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COMMUNICATIONS SYSTEMS AND MEDIA-COMMON CARRIER

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C-59	6506-08	May 26	TOR	P. Scott	Citizen	Television, impact on the north; CBC, allocation of funds for Olympics, coverage of hearings
/ C-60	6664-65	May 27		M. Bell	Citizen	Newspaper coverage, Inquiry hearings; media influence on public opinion
C-63	7023	June 1	MTL	Mountjoy	Citizen	Public should be well informed by press in all energy matters
157	24065	July 5	YK	Hobart	CAGPL	Anik communication satellite, first launching
159	24317	July 7		Boorkman	CAGPL	Alaska, inability to meet demands for telephone service due to impact of Alyeska pipeline
162	25027-29	July 13		Hollands	CAGPL	Alyeska, use of Telex, communication between job situation and community-based liaison person
171	26568-71	Aug. 17		Burrell	Foothills	Telex connecting small communities with hiring halls, problem where no telephone system exists, question of who pays expense
172	26836-37	Aug. 18		Dittrich	COPE/ITC	CBC Television portraying southern culture
180	27863	Sept. 7		St. Eloi	MVPI	Telex system for dispatch purposes set up by union if pipeline is built, telephone check points where telex system not feasible
182	28310	Sept. 9		Forth	MHA/NWT	Impairment of telephone services in Fairbanks due to populations increases not projected
185	28761-62	Sept. 15		Hildes	COPE	Reliance of Repulse Bay, Whale Cove and Chesterfield on radio communication with Churchill; location of satellite stations at nursing stations
192	30004-07	Oct. 4		Ritter	MVPI	Destructive influence of radio and television on native languages; Anik communication satellite brings television from Vancouver, reinforces southern values; lack of programs in Inuktitut available to Inuit
194	30354	Oct. 6		Hemstock	CAGPL	Historical review communications development in Mackenzie corridor
198	31237	Oct. 14		Witty	MVPI	Communication network to home communities, single band radio or telephone communication if native people work on pipeline
198A	31423-24	Oct. 14		Christie	MVPI	Problems placing native Alaskans in employment and training because of poor communication facilities

COMMUNICATIONS TOWERS

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XIXA	2263-66	Mar. 17	YK	Clark	CAGPL	Stability; permafrost; foundations
XXXII	4016-17	Apr. 18		McMullen	CAGPL	Receiver/transmitter towers
	4146-50			McMullen		Failure - temporary repair, reliance on public system
XXXIII	4323	Apr. 21		Dau	CAGPL	Access roads
C-17	1717	July 16	FL	J. Bonnetrouge	CAGPL	L.P.R.T. tower, broadcasting
55	7637	Aug. 15	WH	Morlan	CARC	Permanent structure of casual use e.g. communication tower less impact on archaeological sites
62	8891-93	Sept. 16	YK	Mirosh	Foothills	CNT experience in the north; towers to be located at compressor station sites; location of communication system; microwave route
	8905-10			Scrimas	Foothills	Location of communication towers, repeater stations at compressor station sites; earth stations, land stations, spacing between repeater stations
	8957			Scrimas		System of microwave towers; vandalism
63	8971	Sept. 17		Mirosh	CAGPL	Compressor stations facilities re: communication towers
79	11692	Nov. 3		Minning	CAGPL	Borrow source - area near Parson's Lake Repeater Station

COMMUNICATIONS TOWERS (continued)

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81	12052-53	Nov. 5	YK	Minning		Possible use of 2,000 cubic yards of borrow for tower GM140 just south of Sunny Lake
83	12374	Nov. 7		Scott Williams	MVPI CAGPL	Tower located at Thunder River compressor station
89	13429	Nov. 18		Gunn	CAGPL	Hazard to migrating birds
130	19745	Mar. 16		Williams	CAGPL	Only 3 towers will be located remote from compressor stations
	19754			Purcell	CAGPL	Changes due to adoption of satellite system instead of micro-wave
COMMUNITIES						
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XVII	1912-17	Mar. 13	YK	Williams Bell	CAGPL NWT IB/MA	Consultation re: route location; supplying with natural gas; distance between communities and pipeline
	1922			Dau	CAGPL	Consultation re: route location
	1950-56			Bayly	COPE/ITC	Pipeline - appropriate distance from communities
XVIII	2112-15	Mar. 14		Scott	MVPI	Pipeline - appropriate distance from communities; codes
XXXIV	4391	Apr. 22		Dau		Possible integration of pipeline and community facilities
	4478-79			Dau		Regulations on workers at construction spread camps, access to communities
XXXVII	4784	May 13		Dau		Contacts with communities
XXXVIII	4863	May 14		Dau		Short pieces of road
	4962			Williams		No plans to camp location survey crews near communities
40	5209	May 16		Hurd	CAGPL	Part-time hiring of personnel from communities
41	5388-89	May 20		Hurd		Housing for workers
42	5436	May 21		Scott Hurd		Purging pipeline sections, consultation with communities over timing
	5541			Horte	CAGPL	Liasons with communities, business communities
43	5583-84	May 22		Horte		Routing near communities
44	5739	May 23		Bell		Concern about surveys
	5767-83			Horte		No specific plans for lines to communities
	5803-07			Bell		Routing and facilities location, distance from communities, socio-economic considerations
	5847			Horte		Approximate distance of pipelines from communities; selection of location
	5883-84			Bayly		Pipeline, distance from communities
	5902-08			Bayly		Location of construction camps
	5926-32			Bayly		Location pipeline facilities from communities
45	5944-46	May 24		Bayly		Delta Inuit communities of the Arctic Islands
	5986-90			Horte		Routing of pipeline on east side of Mackenzie River
46	6078-32	June 2		Craik	EPB	Special visit by EPB
48	6349	June 4		Bliss	EPB	Consider what Northern people will do when resources gone
C-5	328-346	May 29	HR	Graves	Citizen	Impact of pipeline on education system, Hay River area; school capacity, bussing
C-6	512-523	May 30		Nahanni	NWT IB/MA	Map of Traplines in Hay River area
C-7	647	June 24	FF	Nahanni		Trapping areas, overlap between communities
	668-70			Menico	Citizen	Native people, speaking for the benefit of all communities in the Mackenzie Valley
C-9	810-11	June 26		J. Naedzo	Citizen	Interdependence, sharing of the people
56	7866-7	Aug. 18	YK	Horte	CAGPL	Consultation re: wharves and stockpile sites
	7869-72			Horte		Fort Norman; Wrigley, Fort Good Hope; aircraft landing strips
58	8148-9	Aug. 20		Blair	Foothills	Construction camp effects; pipeline effect; regulations imposed for construction camps and their effects
	8171			Blair		Impact of construction camps; regulations at construction camps
	8185-6			Blair		Community use of Foothills' facilities re: wharves, communication systems, ice roads

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58	8219-21	Aug. 20	YK	Blair	Foothills	Foothills community visits; CAGPL's community visits	
	8237-40			Blair		Community views; Foothills survey as to route selection	
	8250-2			Blair		Proximity to construction camps; increased wages; bush employment	
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59	8476-8	Aug. 21		Bell Panel 3	NWT IB/MA Foothills	Proximity to Foothills pipeline route	
52	6891	Aug. 12	WH	Banfield	CARC	Pipeline/highway interaction	
55	7620	Aug. 15		Hughes	CARC	Impact of communities with their roads, water and sewage systems, building foundations	
67	10022	Sept. 23	YK	Mirosh	Foothills	Construction, use and upgrading of wharves in communities	
68	10194	Sept. 24		Templeton	EPB	Access of communities to object against practices of companies	
71	10619-20	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Construction permits re input from communities; formal mechanism and policies of DIAND; field office	
	10643-46			Bayly Longlitz		Local input into location and construction of snow roads	
	10661-88			Bayly Longlitz		Input of communities re land use; permits awarded construction and operations bodies; council and band role	
72	10696-97	Oct. 15		Bayly Longlitz		Approval and input into changes in the land use regulations; contact with communities	
	10737-38			Goudge Longlitz	MVPI	Block land transfers; administration by territorial government; community land tenure	
76	11187-98	Oct. 21		Weedon	CARC	Cost of financing major construction projects fall on the public re research, social services, infrastructure; greater taxation placed on the taxpayer and the community	
	11235-40			Weedon Parker	CARC	Native villages, Stevens Village, Ahtna region, North Slope Borough, North Slope Native Corporation; Village of Nuikset; re employment opportunities, proximity to pipeline construction	
80	11874	Nov. 4		Minning	CAGPL	Agreement to consult with communities re gravel sources	
83	12370	Nov. 7		Scott Minning	MVPI	Competition for gravel with some communities	
	12416-17			Scott Williams	CAGPL	Location of borrow pits near communities	
86	12879	Nov. 13		Lawrence	Foothills	Choice of surplus equipment	
	12909-10			Bouckhout	Foothills	Borrow sources, competing with communities	
	12968-80			Lawrence		Receiving camp sewage equipment after use	
87	13062-74	Nov. 14		Bouckhout Davison Drew	Foothills Foothills	Granular material sources, conflict of uses	
88	13301-05	Nov. 17		Bouckhout Taylor	Foothills	Aesthetic views, consultation with communities; conflicts of land use	
99	15089	Dec. 9		Scott		Local people's views, aesthetic design of pipeline	
105	15992	Dec. 17		Millen	CARC	Retention of wharves after pipeline construction completed	
C-25	2563-64	Sept. 8	FS	Ivans	Citizen	Community expansion to mainland, services, facilities required	
C-26	2641	Sept. 9		Lafferty	Citizen	Fort Simpson's industrialization re benefit to surrounding communities	
C-27	2740	Sept. 10		Dodd	Citizen	Whale Cove, Yellowknife, Cambridge Bay, Inuvik, Aklavik, Fort Liard, Nahanni, Trout Lake, Fort Resolution, Fort Rae, Providence re: people working for Hire North	
C-33	3194	Oct. 9		Leishman	Citizen	People brought together because of Inquiry	

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C-39	3790	Feb.18	IN	V. Allen	Citizen	Eskimo communities together for whaling, winter hunts, holiday
113	17248	Jan.18		Hobart	GPC-D	Recruiting from various communities for Nortran
118	18073-77	Jan. 27		Horsfield Czaja Motyka	GPC-D-I GPC-D-S GPC-D-G	Demand for additional infrastructure cost-sharing between company and government
123	18774-85	Feb. 12		Yates Elkin	MVPI MVPI	Regional planning, community input towards land use plans
	18797-80			Elkin		Approach taken in choosing communities to be incorporated in a delta regional plan; community representation on a regional committee
136	20726	Mar.26	YK	Peet	MVPI	Requests for regulation of fishing
140	21404	Apr.8		Noble	COPE/ITC	Response of Tuktoyaktuk, Arctic Red River, Fort MacPherson residents to presentation of Regional planning committee
142	21549-51	Apr.13		Giroux	NORTRAN	Recruitment for Nortran program
143	21671-72	Apr.14		Virtue	NORTRAN	Recruiting in Mackenzie Valley for Nortran program
144	22027-28	Apr.15		Bean	NWT IB/MA	Growth of local government; Territorial Department of Local Government
147	22370-71	Apr.28		Page	NWT IB/MA	Pressures on municipal services, financing created by major development projects
	22375-76			Richardson	NWT IB/MA	Indian villages in James Bay area being created municipalities
	22497			Nahanni	NWT IB/MA	Communities, N.W.T., where interviews were held for the Land Use and Occupancy Research
	22523			Menicoche	NWT IB/MA	Communities visited whilst mapping and interviewing for the Land Use and Occupancy Research
148	22588-97	Apr.29		Nahanni		Method used to interview hunters and trappers in communities, N.W.T.
	22697-98			Asch	NWT IB/MA	Women and children remaining in communities the year round because of schooling
	22721-22			Asch		Gemini North report estimating income for whole communities, argument against this approach
150	22987-89	May.4		Bean Berger	NWT IB/MA	Property tax system, collection in only some communities
151	23108-13	May.5		Cruikshank	CYI	Education programs, more permanent settlements; establishment of permanent government administered communities
	23143-44			Johns	CYI	Movement to permanent settlements, construction of Alaska highway
C-51	5105	May 12	VAN	J. Stokes	Citizen	Impact of gas, oil development on B.C. community
	5122-26			B. Eriksen	Citizen	Skid road areas, Canadian cities
C-52	5239	May 13	CAL	Poyen	Citizen	Disruption along pipeline route
158	24282-91	July 6	YK	Trusty	CAGPL	Planning ramifications of the project; consultation with local communities; CAGPL decision to not build feeder lines to all communities
159	24469-75	July 7		J. Weinstein Boorkman	CAGPL CAGPL	Impact of Alyeska, growth in population
	24555-57			Boorkman		Alaska, impact of in-migration; ability to withstand population pressure
161	24848-51	July 12		Trusty	CAGPL	Problems with insulation from transients; location of camps
162	24967-80	July 13		Trusty		Liaison detachments, Inuvik, Fort Simpson, Norman Wells, Hay River
	25051-55			Trusty		Two types of communities in Mackenzie Delta
	25095-97			Trusty		CAGPL, government consultation, liaison
163	25150-60	July 14		Hobart	CAGPL	Mackenzie River communities, increases in liquor consumption
	25167-92			Trusty		Physical impacts, demands on infrastructures, resources

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163	25197-200	July. 14	YK	Trusty	CAGPL	Use of rotation system, postponement of need for additional facilities
	25243-45			Trusty		CAGPL, consultation with local officials, range of groups
164	25357-59	July 15		Hobart		Probable increase in violence, assaults due to pipeline impact; varying reactions
	25404-07			Trusty		Transportation for people in NWT communities
	25417-19			Trusty Berger		Local businesses, supply of goods and services
165	25552-54	July 19		Burrell	Foothills	Selection of communities to be provided with natural gas by Foothills
166	25829-30	July 20		Usher	COPE/ITC	People identifying themselves by their community and land around it, fear that places will become like Inuvik
167	25926-30	July 21		Usher	COPE/ITC	Influx of transients, growth of non-native sector of some centres; decrease in political power, native villages
	26026-27			Brody	COPE/ITC	Features of Inuit settlement life
168	26122-28	July 22		Brody		Varying levels of liquor consumption; spree drinking sessions; comparison with drinking in skid row areas
170	26490-92	Aug 16		MacLeod	Foothills	Impact on communities when many workers leave for construction camps
171	26566-71	Aug 17		Burrell	Foothills	Question of installing telex system in small communities for hiring, transportation of workers, keeping workers in their area
172	26705-10	Aug 18		Dixon	MVPI	Alaska, adapting to pressures, social and economic, created by new development
173	27029	Aug 19		Dusel	NWT/AM	Summary of impact to be felt by communities with the onslaught of development
174	27089-93	Aug 20		Bayly Lainsbury	COPE/ITC NWT/AM	Coping with impacts of pipeline development depends on variables: size, homogeneity, sophistication, leadership structure, past development experiences, according to Dr. Dixon; parallels between Alaska and NWT
	27103-04			Goudge Lainsbury	MVPI NWT/AM	Municipal tax level recommendation, fixed rate of increase
176	27430-34	Aug 24		Button	COPE/ITC	Establishment of longer residency requirement for voting
	27441-46			Robinson	COPE/ITC	Alternative approaches to education in different areas
	27452-57			Robinson		Effect of local control of education on minority groups
177	27491	Aug. 25		Wood	NWT/AM	Gas distribution, local
	27512-21			Galloway	NWT/AM	Fire protection inadequate, poor inspection, insufficient manpower, lack of training, solutions
	27541-43			Galloway Purdy	NWT/AM	Increase transients, increase fires, fewer volunteers, lack of professional firefighters; rotation of RCMP reduces non-police duties
	27544-46			Galloway		Increased fire hazard in winter, services of fire department
	27550-54			Purdy		Native dislike of RCMP, law enforcement, differing incidence of crime between areas
	27554-61			Galloway		Instituting and maintaining fire departments, inspection, inefficient in small areas
178	27615-22	Aug. 26		Pritchard	MVPI	Attitudes towards wage employment, impact of pipeline depending on length of construction
	27626-35			Merrett Pritchard	MVPI	Impact of gas plants, housing, limits of study, out-migration
	27644-46			Merrett Pritchard		Concept of family; out-migration
	27662-64			Merrett Pritchard		Effect of transients, increased incomes; stretch-out reduce problems
	27678			Runge	MVPI	Areas with tax base can service land, housing
	27693-95			Runge		Native housing situation in NWT compared to other areas in Canada
	27710-11			Runge		Maintaining high growth rate in smaller areas, pressure on housing

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179	27760-68	Aug. 27	YK	Runge	MVPI	Tax based areas responsible for town planning, funding; problem of supply of labour for housing construction in smaller settlements; funding for housing construction, control of planning
	27779-82			Runge		Estimated growth rates and housing need for areas
	27786-88			Runge		Involvement of settlements in house construction planning, use of local developers
	27789			Runge		Difficulties in assessing local impact
	27813-15			Runge MacQuarrie	MHA/NWT	Consultation with local residents about housing, decisions usually overridden
	27820-21			Berger Runge		Transposition of southern standards on North, housing
180	27971-75	Sept. 7		Nessel Hodson Whiteford	MVPI MVPI MVPI	Proposed self-contained camps, limited access to communities, position of unions
181	28207-09	Sept. 8		Sigler McRae	NWT/AM MVPI	Pipeline company should pay extra cost to communities due to population influx, gas supply
	28222-34			Bayly McRae	COPE/ITC	New roads may bring problems to settlements; also benefit; settlements should have more control
184	28430-32	Sept. 14		Atcheson	COPE/ITC	Vast idfference between white and native section of towns, lack of native control
187	29050-54	Sept. 17		Bruce	COPE	Co-operation between social workers, nurses, police, native organizations to alleviate alcohol problem
189	29342-50	Sept. 22		Hill	NWT/AM	Allowing settlements to decide how their money is spent, adaptions to mechanics of size; land use permits
	29402-09			Robertson	NWT/AM	Small settlements excluded from decisions on allocation of resources
190	29579-83	Sept. 23		Ganske	NWT/AM	Development plans in Tuktoyaktuk, Inuvik, Aklavik, Fort McPherson, Arctic Red River, Norman Wells, Fort Norman, Fort Simpson, Hay River; Fort Good Hope and Fort Wrigley not interested in development plans
	29633-35			Roska Watsyk	NWT/AM NWT/AM	Plans to prevent people from moving into northern communities
191	29811-12	Sept. 24		Bayly Hagglund	COPE/ITC MVPI	Ensuring that communities continue to be supplied with goods during pipeline construction; possible transportation co-ordinating agency
	29832-35			Evans	MVPI	Community resupply; public carrier policy, no priorities
194	30267	Oct.6		Butters	NWT/AM	Extraordinary funding for rapid growth communities not enacted by federal government
198	31170-73	Oct.14		Gates	MVPI	Community employment strategy; community based employment and training work groups in Tuktoyaktuk, Cape Dorset, Arctic Bay and Pond Inlet
	31202-06			Witty	MVPI	Employment counselling services in Frobisher Bay, Rankin Inlet, Fort Smith, Hay River, Yellowknife, Fort Simpson and Inuvik
	31223-25			Witty		Substantial economic base (outside of government support): Yellowknife, Hay River, Pine Point, Tungsten, Inuvik, Arctic Bay, Nanisivik, Resolute Bay, Echo Bay, Norman Wells
	31361-63			Witty	MVPI	Those with substantial economic base outside government support
200	31668	Nov.15		Genest	CAGPL	Construction workers will not be allowed to enter communities
201	31773-76	Nov.16		Marshall	CAGPL	Proximity of Cross-Delta route to delta communities
202	31943-46	Nov.17		Bayly	COPE/ITC	Need for objective social, economic impact assessments; regional community planning; Regional Impact Information Centre
	31988-205			Sigler	NWT/AM	Heritage Fund: to reduce community energy costs; municipal taxes; impact funding; impact centres; land use permits
204	32285	Nov.19		Ballem	GPC-D	Origin of some native settlements; their preservation

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XXVI	3084-90	Apr.9	YK	Scott	MVPI	Letter received from Nurse Parker, Aklavik
XXXII	4033-34	Apr.18		Purcell	CAGPL	Compressor station location - flexibility
XXXVII	4743	May 13		Bayly	COPE/ITC	Sheets on construction spread camps
	4776			Williams	CAGPL	Construction camp with 800 men
45	5896-901	May 24		Bayly		Community hearing
C-8	689-91	June 25	FF	D. Shay	Citizen	Mission school; winter weather
51	6815	Aug.11	WH	Hemstock	CAGPL	Proximity to pipeline routes re community gas laterals
53	7088	Aug.13		Williams		Impact of a road
C-20	1940-42	Aug.7	FGH	M.R. Drybone	Citizen	Aklavik hospital and school system
	1976			P. Robac	Citizen	Aklavik hospital & health care
	2036			E. Cook	Citizen	Experience at the mission school
66	9732-33	Sept.22	YK	Jarvis	Foothills	Comparison to Inuvik temperatures
71	10644-46	Oct.14		Bayly		Land use permits; correspondence and input from the community
				Longlitz	MVPI	
87	13074-75	Nov.14		Bayly		Archaeological artifacts to museum
				Reeves	Foothills	
94	14244	Dec.2		Jakimchuk	CAGPL	Caribou - food source
	14345-59			Banfield	CAGPL	Caribou migration, wintering in Aklavik area; contact with prime and perhaps the cross-delta routes; contingency plans; as a resource
95	14367-70	Dec.3		Hemstock		Employees living in Aklavik or other nearby settlement versus a construction camp - hunting, trapping regulations; native employees
				Jakimchuk		Caribou as a resource; annual kill data
96	14550-51	Dec.4		Jakimchuk		
98	14974	Dec.8		Scott	MVPI	Overwintering caribou west of community
99	15023	Dec.9		Jakimchuk	CAGPL	Caribou migration
104	15903	Dec.16		Stein	CARC	Discussion with residents re: fishing practices on Cache River
	15909-10			Steigenberger	CARC	Domestic fishing at Shingle Point
106	16228	Dec.18		Calef	CARC	Hunting area crossed by pipeline routes
108	16524-25	Jan.13		Scott		Cross-delta route change, impact on Aklavik
				Carter	CAGPL	
				Berger		
111	16922-24	Jan.16		Calef		Caribou wintering east of Richardson Mountains, important hunting area; many caribou north of interior route, winter '74
				Carter		
C-34	3335	Oct.16		Henne	Citizen	Decision to move from Aklavik to Inuvik made by government, not people
C-36	3456B	Jan.28	IN	Raddi	Citizen	Source of caribou meat
	3462-63			Jackson	Citizen	Reference to data on people moved from Inuvik to Aklavik
	3467			Albert	Citizen	Caribou management
	3490-96			Adam	Citizen	Population demography data; fur trade with Eskimo of Banks Island, Hudson Bay; community trappers' protection from outsiders; raising of reindeer herd, muskrats
	3496			Adam		Statistics on muskrat harvests; muskrat farming
C-39	3763	Feb.18		v. Allen	Citizen	Trappers Association
112	17041-42	Jan.20		Bliss	GPC-D	Climate of area
	17056			Bliss		Muskrats trapped 1971-73
	17068			Bliss		Fish harvested, fur sales, reindeer harvest
113	17131-39	Jan.21		Hobart	GPC-D	Dissimilarities of Delta communities; visits to Inuvik, influence on Aklavik; residential school; cultural melange
	17160-61			Hobart		"Honey bucket the great equalizer", egalitarianism in the community, native and white; increased government activity

COMMUNITIES - AKLAVIK (continued)

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113	17168-71	Jan. 21	IN	Hobart	GPC-D	Mean family income, mean income per job, numbers employed
	17242-43			Hobart		Less discriminatory than Inuvik in early days
	17259			Hobart		Data of reaction to exploration work incomplete
116	17653	Jan. 24		Rempel	GPC-D-I	Effect of development on hunting geese and other waterfowl
	17661			Webb	GPC-D	Harvesting whales at Whitefish station
117	17828	Jan. 26		Sider	GPC-D-G	Effect of pipeline employment opportunities on community
121	18424-B	Feb. 10	IN	Stein	COPE/ITC	Base camp location for Environmental-Social Committee - fish resource analysis
133	20127	Mar. 23	YK	Rowe	CAGPL	Cross-Delta route, less impact on land used by Aklavik people
	20174-75			Bayly Rowe	COPE/ITC	Shallow Bay, west Delta, east North Slope areas important for meat, fish
135	20434-36	Mar. 25		Jakimchuk	CAGPL	Impact of cross-Delta route on land used by community
	20542-43			Hemstock	CAGPL	Cross-Delta route crosses land used by community
136	20702	Mar. 26		Peet	MVPI	Domestic fishery survey, 1973
178	27717	Aug. 25		Runge	MVPI	Need for houses, social assistance
179	27755	Aug. 27		Runge		Transportation cost of housing materials

COMMUNITIES -- ARCTIC RED RIVER

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XXXIII	4256	Apr. 21	YK	O'Rourke	CAGPL	Use of Dempster route
	4278-79			O'Rourke		Barging, difficult to move up-river
XXXIV	4508-10	Apr. 22		O'Rourke		Pipe shipments routed through community
	4532-37			O'Rourke		Shipping through community
XXXVII	4719-21	May 13		O'Rourke		Barge to truck transfer of pipe, number of truckloads
	4786-89			O'Rourke		Will not barge pipe beyond community
	4798			O'Rourke		Possible location of major staging area
C-II	134	Apr. 2	AK	Bean	Citizen	Revitalization of the band council
52	6972-74	Aug. 12	WH	O'Rourke		Transfer point for material supply
53	7167-71	Aug. 13		O'Rourke		As supply base for prime route
55	7642	Aug. 15		Morlan	CARC	Fairbanks, Fort Yukon Corridors follow Dempster highway, Mackenzie supply line route along Dempster alignment east of Arctic Red
C-23	2318	Aug. 14		Hemstock	CAGPL	Location near Mackenzie River crossing
66	9788	Sept. 22	YK	Kosten	Foothills	Start up date on either side - near end of January
70	10596	Sept. 26		Berger		Community hearing in 1976
89	13425	Nov. 18		Gunn	CAGPL	Islands, sandbars, sensitive areas for waterfowl shorebirds
90	13678	Nov. 19		Bayly Dabbs	COPE/ITC CAGPL	Tree succession after cutting
96	14550-51	Dec. 4		Jakimchuk	CAGPL	Caribou as a resource; annual kill data
	14620			Marshall	CAGPL	Supply route - going from the Arctic Red River area along the Dempster, supply pipe to the Interior route
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101	15455	Dec. 11		Zoltai	CARC	Unfrozen fens, discontinuous permafrost
103	15824	Dec. 15		Stein	CARC	Re: Arctic Red River location
106	16237	Dec. 18		Calef	CARC	Caribou hunted from snowmobiles
108	16523	Jan. 13		Berger		Proximity to the interior route
C-36	3506	Jan. 29	IN	Workman	CAGPL	Pipeline avoidance of sensitive environmental area
113	17131-38	Jan. 21		Hobart	GPC-D	Dissimilarities of Delta communities; influences of visits to Inuvik
	17168-71			Hobart		Family income, mean income per job

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COMMUNITIES - ARCTIC RED RIVER

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133	20127	Mar.23	YK	Rowe	CAGPL	Cross-Delta route, less impact on land used by Arctic Red people
134	20343	Mar.24		Rowe		Traplines crossed by pipeline near Travailant Lake
135	20434	Mar.25		Scott Jakimchuk	MVPI CAGPL	Studies of traditionally used areas, cross-Delta route
	20542-43			Hemstock	CAGPL	Impact of cross-Delta route of hunting, trapping areas
136	20755	Mar.26		Hunt	MVPI	Hovercraft landing site conflicts with domestic fishing area
149	22750-55	May 3		Ritter	NWT IB/MA	Study on place names done among Kutchin people of the area
C-47	4574-75	Mar.13	ARR	J. Andre	Citizen	Adapting to effects of pipeline, workers in town, social impact

COMMUNITIES - COLVILLE LAKE

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C-75	8316-17	Aug. 21	CL	V. Cuzon	Citizen	People always been in area, desire to keep as is for children
	8318-19			T. Codzi	Citizen	Lived all life in area, want to preserve it
	8319			M. Codzi	Citizen	Lived in area for generations, against any disturbance

COMMUNITIES - FORT FRANKLIN

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C-7	599-674	June 24	FF	Berger		Community hearings held
C-8	676-71	June 25		Touchou	Citizen	Community hearings
C-9	774-833	June 26		Berger		Community hearings
C-21	2125	Aug. 9	NW	C. Barnabe	Citizen	Changes in facilities
	2209			W. Fraser	Citizen	Visit by Robert Blair
78	11573	Oct. 23	YK	Roed	CARC	Great Bear River barge and road system, taking supplies in and out of Fort Franklin, Great Bear Lake and Echo Bay Silver Mines
85	12700-04	Nov. 12		Bayly Berger	COPE/ITC	Power from Great Bear dam; rejection by community
98	14927	Dec. 8		Scott	MVPI	Caribou as food source
C-28	2805	Sept. 10	WR	Williams	Citizen	Opposed to pipeline and highway
	2824			P. Nahanni	Citizen	Position on map re trappers from Fort Wrigley
C-34	3305	Oct. 15	YK	Workman	CAGPL	Not economical to supply gas
148	22634-69	Apr. 29		Rushforth	NWT IB/MA	References to Fort Franklin throughout the report on "Recent Land Use by the Great Bear Lake Indians"
	22660-61			Rushforth		Early settlement at Fort Franklin
158	24206-09	July 6		Hobart	CAGPL	Bear Lake people, continued dependence on the land, maintenance of traditional activities
160	24756-61	July 8		Rushforth		Low rental housing project
179	27755-57	Aug. 27		Runge	MVPI	One of two areas using outside contractors for supervision of housing construction; transportation cost of materials

COMMUNITIES - FORT GOOD HOPE

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XVII	1911-12	Mar.13	YK	Williams	CAGPL	Residents, wharf and stockpile site; consideration in route selection
	1917-20			Dau	CAGPL	Facilities located near settlement
	1989			Mollard	CAGPL	Gravel deposit
XVIII	2036-37	Mar.14		Watson	CAGPL	Borrow pit; archaeological site
XXV	2961	Apr.8		Clark	CAGPL	Route change to avoid conflict with highway
XXXIII	4262	Apr.21		Dau		Use of Mackenzie Highway if completed
XXXIV	4393	Apr.22		Dau		Construction training program
XXXV	4629-34	Apr.23		O'Rourke	CAGPL	Advantage of trucking if highway completed
XXXVIII	4920-22	May 14		Williams		Completion of Mackenzie Highway

COMMUNITIES - FORT GOOD HOPE (continued)

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XXXVIII	4954	May. 14	YK	Williams	CAGPL	Location survey
XXXIX	5034-51	May 15		Williams		Upgrading and new wharf; socio economic effects
	5057-58			Dau		Possible relocation of wharf or stockpile site
44	5739-55	May 23		Bell	NWT IB/MA	Band council; pipeline operation in vicinity
	5872-75			Scott	MVPI	Selection of route, location
45	5881-82	May 24		Genest	CAGPL	Land use application for route location, survey in vicinity
C-11	134	Apr. 3	AK	Bean	Citizen	People moved back on to the land
56	1820	Aug. 18	YK	Horte	CAGPL	Need by CAGPL for the Mackenzie Highway to be finished up to Fort Good Hope
	7872			Horte		Community owned aircraft landing site
58	8238-9	Aug. 20		Blair	Foothills	Foothills route selection, community reluctance and refusal to discuss route selection
59	8350	Aug. 21	YK	Gibbs	Foothills	Proximity to Foothills compressor stations
				Panel 3		
	8475-8			Bell	NWT IB/MA	Foothills compressor station; request to relocate
				Panel 3	Foothills	
53	7149	Aug. 13	WH	Hemstock	CAGPL	Limit of Anderson plain
C-18	1766-1834	Aug. 5	FGH	Berger		Community hearings held
C-19	1835-1908	Aug. 6		Berger		Community hearing held
C-20	1909-2075	Aug. 7		Berger		Community hearing held
C-21	2092	Aug. 9	NW	G. Monuik	Citizen	First winter road
	2209			W. Fraser	Citizen	Impact of hearing on Foothills
62	8935	Sept. 16	YK	Scrimmes	Foothills	CN services available up to Fort Good Hope
63	9099	Sept. 17		Beer	Foothills	Relationship to compressor station CO4
64	9329-30	Sept. 18		Mirosh	Foothills	Discontinuous permafrost south of Good Hope; movement of compressor station further away from community
66	9680	Sept. 22		Bauer	Foothills	Division point of continuous & discontinuous permafrost
60	10132	Sept. 24		Dau	CAGPL	60 pipe joints per day from Fort Good Hope to Richards Island
	10153			Williams	CAGPL	Snow road use extensively north of Good Hope
74	10974	Oct. 17		Williams		Area of discontinuous permafrost towards Fort Simpson from Fort Good Hope; frost penetration re snow roads
77	11392-93	Oct. 22		Rutter	CARC	Route, east of the Franklins; terrain around the area of Fort Good Hope
	11425-27			Rutter		East of the Franklins route
	11457			Roed	CARC	Area of fluted moraines
	11476-80			Roed		Fluted moraine location; edge of the shield route
78	11588-93	Oct. 23		Roed	CARC	Area between Fort Good Hope and Thunder River; terrain sensitivity, pipeline route
	11613			Minning	CAGPL	Patches of unfrozen ground occur in the vicinity of Fort Good Hope
80	11901	Nov. 4		Williams	CAGPL	Summer and snow roads, all weather roads to gravel source for community
	11907			Minning		Recontouring of gravel pit
	11913			Minning		Extended excavation of existing borrow site
81	11983	Nov. 5		Harlan	CAGPL	Horsetail drainage patterns north of Good Hope
	12018-21			Minning		Plans to dig borrow site at Old Baldy
83	12416-17	Nov. 7		Scott	MVPI	Location of borrow pit
				Williams		
87	13061	Nov. 14		Bayly	COPE/ITC	Borrow site
	13099			Bayly		Significance of Old Baldy hill
88	13319	Nov. 17		Claridge	Foothills	Esker as borrow source

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COMMUNITIES - FORT GOOD HOPE

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93		14085	Dec. 1	YK	McCart	CAGPL	Fish as a resource; fish camps - location of, impact on subsistence fishing
95		14460	Dec. 3		Hemstock	CAGPL	Completion of the Mackenzie Highway to Fort Good Hope
97		14722	Dec. 5		Jakimchuk	CAGPL	CAGPL moose survey, Mackenzie River islands
98		14921	Dec. 8		Scott		Map showing caribou range
		14927			Scott		Caribou as food source
100		15212	Dec. 10	YK	Whitney	Foothills	Bluenose caribou herd wintering ground
		15222-24			Kondla	Foothills	Future vegetation studies; forest regeneration, ROW
		15243			Bouckhout	Foothills	Protection of woodland caribou as food source
		15344-45			Bouckhout		Realignment, mile 280
		15365			Scott	MVPI	Woodland caribou as year-round food source
101		15490	Dec. 11		Zoltai	CARC	Area of fenland in district
		15499-500			Berger		Areas of fenland crossed south of Good Hope
C-26		2705-06	Sept. 9	FS	Lamothe	Citizen	Civil servants re no purpose
C-27		2748	Sept. 10		Erion	Citizen	Sale of Foothills shares to native organization
C-28		2805	Sept. 10	WR	Williams	Citizen	Opposed to pipeline and highway
C-34		3305	Oct. 15	YK	Workman	CAGPL	Economical to supply gas
130		19737	Mar. 16		Marshall	CAGPL	Relocation of construction camp
		19773-76			Williams	CAGPL	Construction schedule for facilities between stations M0-6 and M-12; airstrip not upgraded; granular material required at refinements between Fort Good Hope and Wrigley
156		23957	July 1		Overvold	NWT IB/MA	NWT IB/MA joint assembly, June 1974, resolution passed re: education ordinance
157		24105	July 5		Hobart	CAGPL	Hurlbert's report on changing way of life; Cohen's description of income sources
162		25057-58	July 13		Trusty	CAGPL	Relocation of nearby projected wharf, stockpile site, camp; no longer need for use of community airstrip
169		26289-301	July 23		Ruttan	NWT IB/MA	Data for study on renewable resources obtained from Fort Good Hope, Colville Lake community
178		27612-19	Aug. 26		Pritchard	MVPI	Used data from area for study on effects of pipeline construction, little impact
		27640-41			Pritchard		Use as a comparison study, traditionally based, employment of citizens
179		27756	Aug. 27		Runge	MVPI	Increase in cost of housing

COMMUNITIES - FORT LIARD

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XXIII		2746	Mar. 21	YK	Hardy	CAGPL	Socio-economic factors related to pipeline
C-17		1658-1714	July 16	FL	Citizens		Community hearings held
		1715-65	July 17		Citizens		Community hearings held
C-20		1930	Aug. 7	FGH	G. Scott	Citizen	Worked for Hudson Bay Company and Territorial Government in Fort Liard
C-24		2404-07	Aug. 23	TL	E. Jumbo	Citizen	Community hearing; CBC reporting of the community hearing
		2409-10			Nahanni H. Deneron	NWT IB/MA Citizen	People from Trout Lake travel to Liard often
		2451-52		NB	Berger		Visit of the Chemical Gas Plant at Pointed Mountain when Berger was at Fort Liard; origin of northerners training in Alberta
C-28		2804	Sept. 10	WR	Williams	Citizen	Pointed Mountain Pipeline re lack of employment after completion
155-A		23850-53	June 30	YK	Telliss	NWT IB/MA	Workers estimated to have worked on Pointed Mountain project an average of 12.4 weeks

COMMUNITIES - FORT McPHERSON

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XXXIII	4256	Apr. 21	YK	O'Rourke	CAGPL	Use of Dempster route
XXXIV	4452	Apr. 22		Williams	CAGPL	Stockpile site
	4504			Veale	CYI	Pipe, barging
XXXV	4607	Apr. 23		Williams		Gravel pit not RKM till unit needed for ditcher tests
XXXVII	4788-89	May 13		O'Rourke		Stockpile site
XXXVIII	4877-86	May 14		Berger		Blasting between Fort McPherson and Yukon border
XXXIX	5056-57	May 15		Dau	CAGPL	Stockpile sites
C-1	46	Apr. 2	AK	Berger		Pipeline route from Richards Island to Fort McPherson
C-11	989-1065	July 8	FMcP	Berger		Community hearings held
C-12	1067-1149	July 9		Berger		Community hearings held
C-13	1150-1269	July 10		Berger		Community hearings held
51	6792	Aug. 11	WH	Hemstock	CAGPL	Barge transport could be used in construction of the interior and mainline route; pipe barged to Fort McPherson
52	7052	Aug. 12		Templeton	EPB	Proximity of caribou herd to community
53	7064	Aug. 13		Trusty	CAGPL	Lateral of alternative route near McPherson
55	7642	Aug. 15		Morlan	CARC	Dempster highway/Mackenzie supply line corridor
78	11613	Oct. 23		Minning	CAGPL	Area of continuous permafrost along proposed coastal and interior routes north and west of Fort McPherson
79	11724	Nov. 3	YK	Dabbs	CAGPL	Studies of revegetation techniques for terrain similar to McPherson locale
90	13687	Nov. 19		Hemstock	CAGPL	Harvesting timber for pilings
91	13901-12	Nov. 20		McCart Hemstock	CAGPL	Domestic fisheries loss, compensation, Peel River
94	14244	Dec. 2		Jakimchuk	CAGPL	Caribou - good source
	14330			Banfield	CAGPL	On the Dempster Highway route
	14351-59			Banfield Jakimchuk		Caribou - food source; compensation
96	14550-51	Dec. 4		Jakimchuk		Caribou as a resource; annual kill data
	14566			Veale		Completion of the Dempster up to Fort McPherson
	14568-70			Jakimchuk		Hunting pressure on caribou herds
	14581			Veale		Wintering of caribou on large burns such as the one near McPherson
102	15583-85	Dec. 12		Zoltai	CARC	Harvesting trees in area for pilings; size, growth rate of trees
	15671			Novakowski	CARC	Cutting trees in area
106	16228	Dec. 18		Calef	CARC	Hunting area crossed by pipeline routes
111	16922-23	Jan. 16		Carter Calef	CAGPL	Caribou wintering east of Richardson Mountains; proximity of interior route
C-36	3506	Jan. 29	IN	Workman	CAGPL	Pipeline avoidance of sensitive environmental area
112	17086	Jan. 20		Bliss	GPC-D	Local timber as pilings source; sawmill in town
113	17131	Jan. 21		Hobart	GPC-D	Dissimilarities of Delta communities; influences of visits to Inuvik
	17168-71			Hobart		Family income, mean income per job
114	17290	Jan. 22		Mainland	GPC-D-I	Taglu gas field, timber for piles from area
115	17573	Jan. 23		Bayly Stamberg	COPE/ITC GPC-D-G	Parsons Lake gas field may use timber from McPherson for pilings
117	17828	Jan. 26		Sider	GPC-D-G	Effect of pipeline employment opportunities on community
133	20127	Mar. 23	YK	Rowe	CAGPL	Cross-Delta route, less impact on land use by McPherson people
134	20343	Mar. 24		Rowe		Traplines crossed by pipeline near Travailant Lake

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COMMUNITIES - FORT McPHERSON

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135	20434-36	Mar.25	YK	Jakimchuk	CAGPL	Use of cross-Delta route area by McPherson people; important trapping areas
	20542-43			Hemstock	CAGPL	Impact of cross-Delta route on hunting, trapping areas
149	22750-55	May 3		Ritter	NWT IB/MA	Study on place names done among Kutchin people of the area
157	24108-09	July 5		Hobart	CAGPL	Cohen's study on preference for wage labour
179	27756	Aug. 27		Runge	MVPI	Increase in cost of housing

COMMUNITIES - FORT NORMAN

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XVII	1911-12	Mar.13	YK	Williams	CAGPL	Extension of runway; consideration in route selection
XXVIII	3512	Apr.11		Berger		Submission from Citizen
XXXVIII	4904	May 14		Lucas	CARC	Spread C. Fort Norman area
	4921-22			Lucas		Time Limits, Territorial Land Use Regulations
C-10	840-60	June 26	WL	J. Blondin	Citizen	Life of native people in the area
	872-983	June 27	FN	Citizens		Community hearings held
C-21	2091	Aug. 9	NW	G. Monuik	Citizen	First cats & CN right of way in area
	2143			M. Blondin	Citizen	Oil discovery reported by Indian
C-22	2241	Aug.11	WH	D. Lloyd	Citizen	Revegetation studies near Fort Norman
64	9424	Sept.18	YK	Spafford	Foothills	Weather records
65	9768-70	Sept.22		Kosten	Foothills	Start of work; daylight hours
73	10958-60	Oct. 16		Morgenstern	CAGPL	Landslides; research
80	11873-74	Nov. 4		Minning	CAGPL	Scarcity of borrow on east side of river; possibility of barging material from across the river
81	12079-80	Nov. 5		Minning Williams		CAGPL prepared to barge borrow material from across river - staging stockpile site
85	12700	Nov. 12		Bayly	COPE/ITC	Power from Great Bear dam
C-27	2748	Sept.10	FS	Erion	Citizen	Foothills shares re sale to native organization
C-28	2805	Sept.10	WR	Williams	Citizen	Opposed to pipeline and highway
	2824			P. Nahanni	Citizen	Position on map re trappers from Fort Wrigley
C-34	3305	Oct. 15	YK	Workman	CAGPL	Economical to supply gas
C-35	3409	Oct. 22	LI	Wood	Citizen	Outside workers entering community
130	19737	Mar. 16	YK	Marshall	CAGPL	Relocation of construction facilities
162	25059	July 13		Trusty	CAGPL	Camp nearby at Great Bear River crossing, no road access; potential for interaction
163	25218	July 14		Trusty		Possible interaction with camp four miles away

COMMUNITIES - FORT PROVIDENCE

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C-4	197-200	May 28	HR	Phillip	Citizen	Settlement Council; need bridge at community
C-21	2091	Aug. 9	NW	G. Monuik	Citizen	Opening of C.N. right of way
	2132			E. Koren	Citizen	Mission; hostel
	2137			C. Towrangeau	Citizen	Experience at hostel
	2148			R. Laycock	Citizen	Training centre
65	9481	Sept.19	YK	Marshall	CAGPL	Supply line to Yellowknife crossing of Mackenzie at Fort Providence
	9534			Berger		Foothills supply line not chilled
	9587			Claridge Davison	Foothills Foothills	Difficulties foreseen in unchilled supply lateral
67	10005	Sept.23		Mirosh	Foothills	Not intending to use Fort Providence Ferry unless use in summer stockpiling
77	11476-81	Oct.22		Roed	CARC	Edge of the shield route; fluted moraine structure; re: pipeline route
78	11520	Oct.23		Roed		East of the Franklins route, major river crossing of the Mackenzie River at Fort Providence

COMMUNITIES - FORT PROVIDENCE (continued)

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78	11551	Oct. 23	YK	Roed	CARC	Edge of the shield route; route on flutings; between Fort Providence and Sitidgi Lake as high as perhaps 60° on flutings
	11583			Roed		East of the Franklins; 3 staging areas, at Fort Providence, Inuvik and on Great Bear River
	11592			Roed		Corridor south of the Willowlake River Depression down to Fort Providence; route superiority on terrain basis
86	12821	Nov. 13		Drew	Foothills	Lateral line junction, terrain sensitivity
87	13060	Nov. 14		Drew		Lateral line, distance from highway
C-25	2481	Sept. 8	FS	Erion	NWT/CC	Barging season re Fort Simpson
132	20129	Mar. 18	YK	Berger		Axe Point Study should be produced before community hearings
C-68	7823-921	July 16	FP	Berger Malewski	Citizen	Hearings held; jobs for local people at Axe Point staging areas; working arrangements, schedules; proximity of Axe Point to the community; lack of basic industry

COMMUNITIES - FORT RAE

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192	30030-31	Oct. 4	YK	Berger Ritter	MVPI	Retained language, but Old Crow did not, reasons for the difference

COMMUNITIES - FORT RESOLUTION

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145	22206-10	Apr. 26	YK	Menez	NWT IB/MA	Impact of Pine Point Mine; sawmill, capacity for production
150	22955	May 4		Cheezie	NWT IB/MA	Settlement Council, native, white participation
C-48	4738-40	Apr. 30	FS	M. Beaulieu	Citizen	Impact of Pine Point Mines; history of native people

COMMUNITIES - FORT SIMPSON

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XV	1662	Mar. 11	YK	Dau	CAGPL	Operation and Maintenance District HQ
XVIII	2117-20	Mar. 14		Scott Dau	MVPI	Proximity of compressor station
XXVIII	3558-59	Apr. 11		Scott Morgenstern	CAGPL	Mackenzie Highway
XXX	3729	Apr. 15		Purcell	CAGPL	Compressor stations proposed north of Fort Simpson
	3750			McMullen	CAGPL	Number voice channels, communication system
XXXII	4007-10	Apr. 18		McMullen		Sixty-six channels between 60° north and Fort Simpson
XXXIII	4258-62	Apr. 21		O'Rourke	CAGPL	Trucking to Fort Simpson best alternative
XXXIV	4390-91	Apr. 22		Dau		Possible integration community and pipeline facilities
XXXV	4607	Apr. 23		Williams	CAGPL	Not suitable site for ditcher testing (terrain unit)
	4629			O'Rourke		Advantages of trucking and barging
XXXVII	4712	May 13		Genest	CAGPL	Impact of route change
	4791-96			O'Rourke		Movement of materials to Fort Simpson, transfer from rail to barge
40	5221	May 16		Fielder	CAGPL	District headquarters for operation and maintenance
C-17	1756-8	July 17	FL	B. Menikosh	CAGPL	Impact of Pointed Mountain Pipeline
58	8236-7	Aug. 20	YK	Blair	Foothills	Foothills desire to connect Fort Nelson, B.C. with Mackenzie Highway system
59	8350	Aug. 21		Gibbs Panel 3	Foothills Foothills	Proximity to Foothills compressor station

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59	8476-77	Aug. 21	YK	Bell Panel 3	NWT IB/MA Foothills	Foothills compressor station; request to re-locate
51	6821	Aug. 11	WH	Hemstock Berger	CAGPL	Location of the Peel Plain, reserve
55	7604	Aug. 15	WH	Hughes	CARC	Fine grained glacial sediments occur; glacial lake deposits
	7615			Hughes		Fort Simpson is within although only barely within a zone of widespread discontinuous permafrost
	7618			Hughes		Slope failures, along the pipeline routes, at Fort Simpson
C-20	2019	Aug. 7	FGH	F. Barnaby	Citizen	Native request for closing of liquor outlet
C-21	2085	Aug. 9	NW	Rowe	CAGPL	Centre for operations and construction
	2174-75			R. Yakeleya	Citizen	Dene Declaration passed
C-22	2232-35	Aug. 11	WH	A. Wright	Citizen	Mackenzie Highway construction to Camsell Bend
62	8891	Sept. 16	YK	Mirosh	Foothills	Location of Foothills district offices re communications systems
64	9424	Sept. 18		Spafford	Foothills	Weather records
65	9529	Sept. 19		Davison	Foothills	Degree of permafrost south of Simpson
	9601			Mirosh		Under consideration as secondary staging area; staging area north of Simpson at Mackenzie Highway crossing
67	10015	Sept. 23		Mirosh		Staging site possibility
68	10042	Sept. 24		Hushion	Foothills	Establishment of Foothills Maintenance and Supply Depot in Simpson
	10047			Hushion		Similarity of terrain between Northern Alberta and the Fort Simpson to Zama Lake area
	10052-53			Hushion		District headquarters
	10061			Hushion		Location of maintenance supply depot at Simpson; alternative locations
	10067-68			Hushion		Staff requirements in district headquarters; local employment, housing
	10093			Scott	MVPI	Mackenzie Highway goes 30 miles beyond Simpson
	10112-13			Mirosh		Use of winter road between Fort Nelson and Fort Simpson
70	10558	Sept. 26		Longlitz	MVPI	Shut-down date of April 8, re shut-down of winter constructions
72	10721	Oct. 15		Marshall Longlitz	CAGPL	Testing re frost penetration, snow cover and impact of all terrain vehicles
	10731			Marshall Longlitz		Shut-down regulations in areas of discontinuous permafrost re Fort Simpson area to the 60th parallel
	10779			Adam	EPB	Area of discontinuous permafrost; now chilled pipelines; thaw settlement and localized erosion
74	10974	Oct. 17		Williams	CAGPL	Area of discontinuous permafrost; south of Fort Simpson exist muskeg, peat land, bog land; frost penetration; snow road surfaces; use of snow roads
	10987-11001			Williams		Soil conditions; peatland; permafrost; frost penetration; snow roads
	11008			Williams		Snow roads; shut-down of winter travel
	11011			Williams		Snow roads, shut-down dates; clearing of the right-of-way; construction work
76	11220	Oct. 21		Parker	CARC	Fort Simpson to be regional headquarters, loading and storage point
	11248			Parker		Winter road from Fort Simpson to Fort Nelson
	11300-02			Hughes	CARC	Areas of discontinuous permafrost through the Fort Simpson area
	11317			Scott	MVPI	Termination point of pipeline chilling
77	11349-53	Oct. 22		Rutter	CARC	Area 2 of Rutter's study re major physiographic regions of the Mackenzie Valley
78	11588-93	Oct. 23		Roed	CARC	Area in the vicinity of the Mackenzie River Crossing upstream of Fort Simpson; terrain sensitivity

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79	11690-91	Nov. 3	YK	Minning	CAGPL	Terrace deposits near Simpson
80	11824-26	Nov. 4		Clark	CAGPL	Questioned by Berger re field studies and instrumentation used to monitor slopes near Simpson
	11913			Minning		Site 167 east of Simpson.- use of existing gravel pit
83	12359-63	Nov. 7		Scott Minning		Granular materials survey stops at Fort Simpson; sub-grade materials used in Mackenzie Highway near Fort Simpson
86	12994	Nov. 13		Gibbs	Foothills	Exhibit, working light time
	13036-48			Williams	CAGPL	Construction, snow roads, scheduling, snow manufacturing
89	13441	Nov. 18		Gunn	CAGPL	The sny, important to birds in spring
90	13645	Nov. 19		Hemstock	CAGPL	Use of same communications facilities by oil pipeline
	13701			Dabbs	CAGPL	Experimental station, vegetation
95	14450-51	Dec. 3		Jakimchuk Scott Hemstock	CAGPL	Dempster Highway access; completion stage; assumptions re: environmental assessment
100	15242	Dec. 10	YK	Bouckhout	Foothills	Protection of woodland caribou as food source
	15278			Whitney	Foothills	Environmental studies in area
101	15448	Dec. 11		Zoltai	CARC	Terrain, vegetation, permafrost studies, E-SP
	15468			Zoltai		Crossing Mackenzie upstream
	15533-35			Zoltai		Foothills will not chill pipe south of Simpson, effect on unfrozen fens
C-24	2403-04	Aug.23	TL	E. Jumbo	Citizen	Mackenzie Highway construction near Fort Simpson, Hire North
	2414			J. Antoine	Citizen	Fort Simpson has changed due to development
	2437		NB	H. Deneron	Citizen	Use of Fort Simpson as a centre for hiring, influx of people to the region; use of Nahanni River to get to and from the Park
	2462			Nahanni	NWT IB/MA	Control of Fort Simpson; initiation of economic development
C-25	2469-2612	Sept.8	FS			Community hearings held
C-26	2613-2720	Sept.9		Workman Ellwood Antoine	CAGPL Foothills Citizen	Pipeline in relation to Fort Simpson, distance, compressor station, district office, employment; history
C-27	2721-77	Sept.10		Citizens		Social, environmental, economic, cultural impact of pipeline
C-28	2785	Sept.10	WR	H. Hardisty	Citizen	Impact of Mackenzie Highway
	2788			H. Hardisty		Concern re impact of highway on Wrigley same as Fort Simpson
	2802			G. Hardisty	Citizen	Effects of road on Simpson
	2805			Williams	Citizen	Fear of Wrigley becoming like Simpson because of highway
	2842	Sept.11		H. Hardisty	Citizen	Hire North construction logs bought in Simpson rather than Wrigley
C-30	2895-97	Oct.6	PP	Mirosh	Foothills	Feeder lateral, maintenance
	2910			Mirosh		Materials transport by winter road
	2916-17			Carter Ellwood	CAGPL Foothills	Permanent maintenance, operations positions
C-31	3001	Oct. 7	FR	Mirosh		Pipeline maintenance personnel
C-34	3305	Oct.15	YK	Workman	CAGPL	Economical to supply gas
C-35	3389	Oct.22	LI	Carter		As an operations and maintenance centre
C-36	3508	Jan. 29	IN	Workman		CAGPL district office re: manpower requirement
C-39	3721	Feb.18		Hill	Citizen	Suggested headquarters for Mackenzie Valley Pipeline Authority
114	17310	Jan.22		Mainland	GPC-D-I	Alternative starting point, barging to Taglu gas field
	17386			Hollingworth	Foothills	Possibility of sawmill to make pilings
115	17450	Jan.23		Faulkner	GPC-D-S	Barging materials to Niglintgak gas field from Simpson, arrangements
	17555-57			Scott	GPC-D-G	Use of town as major staging area for shipping to Parsons Lake; barge use conflict with local users

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148	22722-23	Apr.29	YK	Asch	NWT IB/MA	Comparing bush resource incomes of Fort Simpson and Wrigley
155-A	23850-51	June30		Telliss	NWT IB/MA	Workers from Fort Simpson estimated to have worked on Pointed Mountain project an average of 4.6 weeks
162	25051-57	July 13		Trusty	CAGPL	Development orientation; non-native population concentration; additional facilities planned for the community
	25060-67			Trusty		Nearby wharf, stockpile site, construction camp; port facility to be expanded
163	25216-18	July 14		Trusty		Expanded port, facilities, employees access to town
165	25596-97	July 19		Reesor Ellwood	NWT/AM Foothills	Airport connects community with construction camps
169	26311	July 23		Ruttan	NWT IB/MA	Potential for mill, associated with pipeline development
C-68	7856-63	July 16	FP	Erian	Citizen	Staging area to be located at Axe Point; community to be alternate logistics site
173	26981-84	Aug 19	YK	Lainsbury	NWT/AM	Population projections under normal and accelerated conditions
	27000-14			Dusel	NWT/AM	Present social facilities, future demands
177	27557	Aug 25		Galloway	NWT/AM	Ruled by Fire Marshall in Yellowknife, inadequate facilities for fire prevention
179	27755	Aug. 27		Runge	MVPI	Transportation costs of housing materials
182	28360-61	Sept. 9		Goudge Forth	MVPI MHA/NWT	Koe Go Cho Society' operation in Fort Simpson
189	29439-51	Sept. 22		Harris Goulet Berger	NWT/AM NWT/AM	Recreation facilities and programs; population profile; internal problems of Recreation Committee, lack of local money; suggested solutions; fear that recreation director will stifle community involvement
190	29598-602	Sept. 23		Wasyk	NWT/AM	Development as a transportation centre; housing, Beauvoir sub-division; sewer, water and garbage facilities

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44	5740	May 23	YK	Bell	NWT IB/MA	Northwest Lands and Forests Services; Application for land use permit
C-20	2038	Aug.7	FGH	E. Cook	Citizen	Impact of U.S. Army & outsiders
	2068			F. Rabisca	Citizen	Failure of training centre
C-21	2148	Aug.9	NW	R. Laycock	Citizen	Centre for adult training
65	9592	Sept.19	YK	Berger		Community hearing announced
77	11468	Oct.22		Roed	CARC	Edge of the shield route; area of well drained soils; Slave River crossing
	11475			Roed		Community gas use; feeder lines
	11517			Roed		Edge of the shield route; corridor to go past Fort Smith
84	12609-10	Nov. 8		Berger		Hearings schedule
85	12689	Nov. 12		Berger		Hearings schedule
100	15369-70	Dec. 10		Scott Finney	MVPI Foothills	Whooping cranes nesting in area
C-26	2649-50	Sept. 9	FS	Paullette	Citizen	Brief history re turnover and recession of people; broken promises by white man
C-27	2760	Sept. 10		Erion	Citizen	Cheaper to subsidize than run spur line in
C-33	3102	Oct. 9		Evans	Citizen	Town Council of Fort Smith
	3200-03			Christiansen	Citizen	Road from Fort McMurray, spur and feeder lines of gas, hydro power, shortage of labour
	3216-17			Laviolette	Citizen	Benefit of CANOL project to north

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143	21818	Apr.14	YK	Fumoleau	NWT IB/MA	Establishment of demonstration farm, 1911
144	22009-26	Apr.15		Barnaby	NWT IB/MA	Elections for the Municipal Council; native representation
150	22941-54	May 4		Cheezie	NWT IB/MA	Local elections; native participation
C-48	4658-65	Apr.30	FS	G. Cheezie	Citizen	Movement of Dene to Fort Smith, adjustments to way of life
	4668-70			W. Applewhite	Citizen	Contributions to pipeline: local government, developed townsite, hydro-electric power, training facilities, alternate transportation routes, barge facilities, services to other communities

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XXX	3750	Apr.15	YK	McMullen	CAGPL	Communications system
XXXIII	4248-51	Apr.21		Dau	CAGPL	Road shipments by rail or truck to Hay River
	4264-65			O'Rourke	CAGPL	Increased rail network
	4277			Berger		Community hearings, impact on town
	4328-29			Dau		Inter-model transfer, double jointing
	4331			Dau		North of Hay River, fuel barged to storage sites
XXXIV	4506-13	Apr.22		O'Rourke		Movement of pipe for entire Prudhoe Bay interior route
	4539-41			O'Rourke		Pipe welding/pre-built joints
XXXV	4620-21	Apr.23		O'Rourke		Barging season and road hauling
	4626-28			O'Rourke		Barging season out of Hay River
XXXVII	4710-11	May 13		Williams	CAGPL	Hay River - Enterprise, major staging area
	4714-19			O'Rourke		Enterprise Area
	4791-96			O'Rourke		Barging/rail movement of materials
45	5942-45	May 24		Bayly	COPE/ITC	Railroad to community
C-5	327-476	May 29	HR	Berger		Community hearings
C-6	480-576	May 30		D. Sonfrere	Citizen	Hearings held at Hay River Indian Village
	577-596	May 31		Berger		Hearings held at Hay River Indian Village
53	7132	Aug. 13	WH	Trusty	CAGPL	Population rise in anticipation of pipeline
	7163-64			O'Rourke		Logistics transfer centre for prime route
C-21	2085	Aug. 9	NW	Rowe	CAGPL	Administrative centre for pipeline
65	9534	Sept. 19	YK	Berger		Foothills - community supply line not chilled
	9600			Mirosh	Foothills	Supplementary staging area
	9601			Mirosh		Other staging areas considered
67	10016	Sept. 23		Mirosh		Use as a staging area; difference between CAGPL and Foothills' proposals
77	11475	Oct. 22		Roed	CARC	Service pipeline routes; community use of gas; edge of the shield route
81	12002-03	Nov. 5		Williams	CAGPL	Waste Disposal study at Hay River by Hartt Roe
86	12987-88	Nov. 13		Bayly Lawrence	COPE/ITC Foothills	Sewage contamination, beach
88	13248-49	Nov. 17		Bouckhout Lawrence	Foothills	Sewage discharge into swamp
99	15127	Dec. 9		Finney	Foothills	Barge traffic
100	15369-70	Dec. 10		Scott Finney	MVPI	Whooping cranes normally nest in area
C-25	2481	Sept.8	FS	Erion	NWT CC	Barging season re Fort Simpson
	2535-36			Deller Workman	Citizen CAGPL	Docking facilities; utilization
C-28	2835-36	Sept.11	WR	Lousson	Citizen	Change, harm to native population by highway
C-30	2890-93	Oct.6	PP	Osing	Citizen	Highway utilization Pine Point - Hay River re ambulance service, pipeline supplies, education
	2895			Mirosh	Foothills	Feeder lateral
	2910			Mirosh		Highway traffic
	2956-57			Bolmer	Citizen	Railway - community supplies
C-31	3021	Oct.7	FR	Menez	Citizen	Highway construction between Grimshaw, Hay River impact on lumber industry, labour supply from Fort Resolution

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C-32	3034-35	Oct. 8	FR	Orbell	Citizen	Closest hospital to Resolution; barging; Freshwater packing plant built
C-34	3304	Oct. 15	YK	Workman	CAGPL	Not economical to supply gas to
C-35	3392	Oct. 22	LI	Berger		Feeder lateral policies of Foothills, CAGPL
114	17298	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas plant bulk materials barged from Hay River
	17310			Mainland		As alternative starting point for barging to Taglu gas field
	17430			Faulkner	GPC-D-S	Niglintgak gas field's Farewell staging area resupplied by barge from Hay River
115	17450	Jan. 23		Faulkner		Barging materials to Niglintgak from Hay River, arrangements
	17555-57			Scott	GPC-D-G	Using town as major staging area for shipping to Parsons Lake; barge use conflict with local users
116	17657	Jan. 24		Rempel	GPC-D-I	Back-up equipment available for Delta Environmental Protection Unit
130	19738	Mar. 16	YK	Marshall	CAGPL	Axe Point staging site added to facilities at Hay River; location map of staging areas
	19774			Williams	CAGPL	Shipping of materials from Hay River and Axe Point
132	20127-31	Mar. 18		Williams		Will still be used for staging after Axe Point is built; effect on town
159-A	24609-10	July 7		Trusty	CAGPL	Likely to be most impacted centre; comparison with Valdez, Alaska
161	24836-37 24848	July 12		Trusty Trusty		Changes in statistics, number of employees Problems with location of camps, insulation from transients
162	25051-57 25061-67	July 13		Trusty Trusty		Development orientation; non-native population concentration Staging of materials, supplies; port facilities; no drawing on local services, utilities; estimated staffing
163	25218-19	July 14		Trusty		Nearby facilities, part of northern staging complex; interaction with the town
C-68	7856-69	July 16	FP	Erian	Citizen	Movement of staging area to Axe Point; community to be alternate logistics site
173	26982-84 27014-27	August 19	YK	Lainsbury Dusel	NWT/AM NWT/AM	Population projections, under normal and accelerated conditions Present social facilities, future demands to expand.
174	27086-87	Aug. 20		Dusel		Shortage of waterfront
178	27714-21	Aug 26		Runge	MVPI	Medium growth rate, housing need, owner occupied homes
179	27754-56 27776-77	Aug. 27		Runge Lowing	MVPI MVPI	Transportation cost of housing materials Attempt to make most of housing package locally; central location for distribution
190	29641-55 29656-65 29666-78	Sept. 23		Taylor Fergusson Fergusson	NWT/AM NWT/AM NWT/AM	Housing; town responsible for servicing of land; Hay River Industrial Development Study; commercial development, central business district; development on Vale Island Growth of Hay River, history; physical infrastructure, municipal services, fire protection, finances and capital programming Projection of total annual revenue; capital cost of local improvements; sanitary sewerage system; recreational facilities; education; health services, facilities
191	29773-74	Sept. 24		Hagglund	MVPI	Northern Transportation Company Limited facilities

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XV	1662	Mar. 11	YK	Dau	CAGPL	Operation and Maintenance Division HQ
XXI	2525	Mar. 19		Mercredi	Citizen	Zoo
XXIII	2702-03	Mar. 21		Williams	CAGPL	Research - snow manufacturing machine
XXX	3750	Apr. 15		McMullen	CAGPL	Number voice channels, communication system
XXXII	4008	Apr. 18		McMullen		30 channels between Norman Wells and Inuvik
XXXIV	4397-98	Apr. 22		Veale	CYI	Winter, summer construction
XXXV	4564-65	Apr. 23		Williams		Snow road tests
	4628	Apr. 23		O'Rourke	CAGPL	Barge movement
40	5213-15	May 16		Hurd	CAGPL	Special equipment for sensitive terrain
	5221-24			Fielder	CAGPL	Operations and maintenance district headquarters
41	5294-5302	May 20		Hurd		6,000 foot strip, equipment stockpile
42	5470-71	May 21		Hurd		Fire breaks, bulldozing
C-15	1379	July 12	OC	W. Moses	Citizen	Impact of people from the south; boot-legging
	1437-46			B. Allen	Citizen	Move to Inuvik; berry picking patches
54	7565	Aug. 14	WH	Parker	CARC	Northern Engineering Services tests conducted in Inuvik; construction of snow and ice roads
55	7621	Aug. 15		Hughes	CARC	Have extensive built facilities
	7642			Morlan	CARC	Mackenzie supply follows Dempster highway alignment east to Arctic Red to form a junction with Inuvik
C-20	2044	Aug. 7	FCH	B. Edgi	Citizen	Hostel and school
C-21	2085	Aug. 9	NW	Rowe	CAGPL	Administrative centre for pipeline
	2091			G. Monuik	Citizen	First winter road
	2132			E. Koren	Citizen	Government hostel
	2146			R. Laycock	Citizen	Sand stockpiles on road
C-22	2284	Aug. 11	WH	A. Netherton	Citizen	Service to Whitehorse - International Jet Air
C-23	2307-08	Aug.14	WH	R. McKaymie	Citizen	Road to community
62	8891	Sept.16	YK	Mirosh	Foothills	The place of district office for Foothills communications systems
63	9074-82	Sept.17		Berger		Community hearings to be held in Inuvik January 1976; formal evidence on Delta impacts
64	9424	Sept.15		Spafford	Foothills	Weather records
66	9726	Sept.22		Kosten	Foothills	Start up time for construction
	9733			Jarvis	Foothills	Temperature records
	9737-41			Jarvis		Temperature records examined in light of construction commencing; snow roads
	9768-70			Kosten		Construction to begin in area; Daylight hours
	9793			Kosten		Light in late November, early December
68	10044	Sept. 24		Hushion	Foothills	Regional office in Inuvik responsible for 250 miles of pipe facilities
	10052-53			Hushion		Above amount excludes Prudhoe Bay lateral
	10061-64			Hushion		Suggested location of maintenance supply depot instead of Simpson
	10072			Hushion		Possibility of living in communities other than Inuvik and Inuvik District HQ
	10168-70			Williams	CAGPL	Test roads - darkness and climatic conditions
70	10558	Sept. 26		Longlitz	MVPI	Shut-down date of April 30 re winter construction
	10596			Berger		Holding of formal and community hearings in 1976
71	10654	Oct. 14		Bayly	COPE/ITC	Shut-down date for last year
				Longlitz	MVPI	
	10674			Bayly		Land use permits; contact with hamlet council or town council
	10686-87			Longlitz		
				Bayly		Land use permits; bypass around Inuvik; environmental impact
				Longlitz		
72	10719-31	Oct. 15		Marshall	CAGPL	Testing facilities re inducing frost penetration, desirable frost penetration depths; snow cover depths; damage to right-of-way and access roads; snow roads; construction scheduling and snow road use
				Longlitz		

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73	10893 10963	Oct. 16	YK	Genest Morgenstern	CAGPL CAGPL	Observation of natural heaving Test hole drilling; soil stability; Inuvik - Travaillant Lake area
74	10975 10983-11001	Oct. 17		Williams Williams	CAGPL	Inuvik snow road test; depth of active layer Snow roads; tests; frost penetration; depth of of active layer
78	11583	Oct. 23		Roed	CARC	A staging area to be located at Inuvik; east of the Franklins route
79	11713 11718 11746	Nov. 3		Dabbs Dabbs Berger	CAGPL	Test site for revegetation studies Slides on comparison of test results from Inuvik test sites Area between Inuvik and Norman Wells - lower Mackenzie section of the boreal forest
81	12040 12068-69 12091	Nov. 5		Clark Minning Minning Hemstock	CAGPL CAGPL CAGPL	Discussions with Inuvik residents re community's borrow requirements Long distance to nearest deposit if present borrow site exhausted Planning for storage sites
82	12183	Nov. 6		Dabbs	CAGPL	Weather records dated back to 1940 used as guide in revegetation
83	12353 12370-71 12383 12416-17	Nov. 7		Scott Hemstock Scott Minning Berger Scott Williams	MVPI CAGPL CAGPL	Location of borrow site Gravel supply problem, change made (unspecified) Consideration of Cross-Delta route in Inuvik hearings Location of borrow pit
86	12992-13050	Nov. 13		Gibbs Williams	Foothills	Construction spreads, Inuvik area, working light, production rates, down time
87	13109	Nov. 14		Bayly	COPE/ITC	Seismic lines refused, aesthetic consideration
89	13548	Nov. 18		Dabbs		Revegetation test site
90	13644-45	Nov. 19		Hemstock		Hot oil line testing; use of same communications facilities by future projects
93	14122	Dec. 1		Marshall	CAGPL	Report done for CAGPL by Avcon, re: servicing of compressor stations, information for the Inuvik district
96	14550-51	Dec. 4		Jakimchuk	CAGPL	Caribou - as a resource; annual kill, data
97	14797	Dec. 5		Templeton	EPB	Routing and overflight restriction, islands in Mackenzie River, recommendations
98	14875 14893 14927	Dec. 8		Gunn Scott Gunn Scott	CAGPL MVPI CAGPL	Flights to DEW line sites Erosion caused by fire, seismic lines Use of caribou as food source
100	15222-24	Dec. 10		Kondla	Foothills	Future vegetation studies
101	15455	Dec. 11		Zoltai	CARC	Unfrozen fen, discontinuous permafrost zone
103	15821	Dec. 15		Stein	CARC	Re: fisheries officer present
104	15903	Dec. 16		Stein		Logging of Arctic char catch from Cache River by Fisheries Service officer
106	16228	Dec. 18		Calef	CARC	Hunting area crossed by pipeline routes
111	16922	Jan. 16		Carter Calef	CAGPL	Caribou wintering east of Richardson Mountains, important hunting source
C-30	2916-17	Oct. 6	PP	Ellwood Carter	Foothills CAGPL	Permanent maintenance, operations positions
C-34	3305 3335	Oct. 15 Oct. 16	YK	Workman Henne	CAGPL Citizen	Economical to supply gas Decision to move from Aklavik to Inuvik made by government, not people
C-35	3389 3414	Oct. 22	LI	Carter Carter		Operations and maintenance centre Outside workers remaining in community
C-36	3456B 3462-63	Jan. 28	In.	Raddi Jackson	Citizen Citizen	Source of fish Reference to data on movement of people from Inuvik to Aklavik

COMMUNITIES - INUVIK (continued)

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C-36	3464-66	Jan. 28	IN	Billingsley	Citizen	Sanitation standards in food and beverage outlets, need for upgrading expansion of inspection services
	3468			Albert	Citizen	Natives - spending of incomes
	3492-94			Adam	Citizen	Protection of community, trappers from unwanted guests
	3495			Adam		Raising of reindeer herd, construction of slaughter-house, fur factory
	3508	Jan. 29		Workman	CAGPL	Employment at CAGPL divisional office
C-37	3570	Feb.10		Workman		Employment opportunities during operational, maintenance phases
C-38	3627	Feb.12		Rowe	CAGPL	Job opportunities during operations phase
C-39	3699-714	Feb.18		Robertson	Citizen	Dependency on Federal Government; promotion of controlled development; native land claims; conditions for development ; population; response to airstrip; Gulf's gas gathering plant; impact of Dempster Highway; taxation; impact of population increase; Impact Centre; government co-ordination; cost of living; funds for up-grading property, recreation facilities; distribution of gas
	3715			Hill	Citizen	Opportunities and difficulties from pipeline construction; conditions for development: northern involvement, protection of environment, compensation, employment of northerners; support for land claims, Government's dual life style policy;proposals for optimum local benefits from resource development
	3727			Hill	Citizen	Extension of Mackenzie Highway to Tuktoyaktuk
112	17041-45	Jan.20		Bliss	GPC-D	Climate, vegetation of area, effects of forest fire
	17056			Bliss		Muskrats trapped, '71 to '73
	17068			Bliss		Fish and birds harvested, fur sales, reindeer harvest
	17126			Berger		Inuit from town hunt whale at Whitefish station
113	17131-39	Jan.21		Hobart	GPC-D	Dissimilarity of Delta communities; visits from other communities,influence on other communities;cultural melange; Honigman's study
	17152-56			Hobart		Population, birth rate etc. of "Inuvik zone" Mackenzie Delta area
	17168-71			Hobart		Mean family income, mean income per job
113	17237-43	Jan.21		Hobart		Coppermine workers getting liquor in Inuvik; more discrimination than in Aklavik in early days after construction
116	17653	Jan.24		Rempel	GPC-D-I	Effect of development on hunting geese and other waterfowl
118	17930-40	Jan. 27		Todd Sider Wopnford	GPC-D-I GPC-D-G GPC-D-S	Company personnel, service people housing facilities; physical, social, economic problems, impact of development
122	18719	Feb. 11		Barry	COPE/ITC	Movement of gas plants off Delta
123	18822-23	Feb. 12		Elkin	MVPI	Voting decision on choice of development options
132	20012	Mar.18	YK	Williams	CAGPL	Repair all terrain vehicle will be stationed at Inuvik
136	20723	Mar.26		Peet	MVPI	Centralization of Holmes Creek fishery
C-44	4187-88	Mar.8	TUK	J. Steen	Citizen	Reasons for Inuvik not to support offshore drilling

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COMMUNITIES - INUVIK

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C-60	6673	May 27	TOR	E. Welsh	Citizen	Exploration teams, effect on community
C-65	7529-33	June 4	OTT	H.T. Schwarz	Citizen	Describing social life, 1972, deterioration
C-66	7650-51	June 7	CH	A. Holman	Citizen	Strong influence, Southern Canadian mores and standards
162	25051-57	July 13	YK	Trusty	CAGPL	Development orientation; non-native population concentration; nearby wharf, construction camp with stockpile site
163	25182-92	July 14		Trusty		CAGPL, options for resident vs non-resident employees; implications for the community
	25213-14			Trusty		Nearby stockpile site and camps, wharf facilities; distance from, access to town
	25241-42			Trusty		Housing situation, number of vacancies
164	25350-52	July 15		Hobart	CAGPL	Gemini North report quotations, problems accompanying "boom"
165	25588-93	July 19		MacLeod	Foothills	Highest impact centre; incremental demand for utilities, road extensions, serviced land, recreational activities; quarry management transferred to town
170	26493-508	Aug. 16		MacLeod		Drop in population due to postponement of development; businesses kept alive with one million dollar expenditure program
172	26837-44	Aug. 18		Dittrich	COPE/ITC	Development impact, recreational facilities; friendship center, little consultation with local people, need to support native culture and recreational needs
173	26981-27000	Aug. 19		Lainsbury Dusel	NWT/AM NWT/AM	Population projections, physical and social services, housing, education, health services, recreation, law enforcement
174	27075-76	Aug. 20		Dusel		Selection of site for three cell anaerobic lagoon; potential conflict between municipal government and community land users
	27079-86			Bayly Lainsbury Dusel	COPE/ITC	Capacity of Inuvik Hospital; recreation facilities, shortage of waterfront for recreation
176	27363-68	Aug. 24		Button	COPE/ITC	Growth, composition of citizenry, education facilities
177	27557-61	Aug. 25		Galloway	NWT/AM	Full time fire chief, municipal funding of equipment, plans for upgrading fire department
178	27714-23	Aug. 26		Runge	MVPI	High growth rate, need for social housing, owner occupied homes, calculations for housing need
179	27757	Aug. 27		Runge	MVPI	One of two areas using outside contractors for supervision of housing construction
	27777			Runge		Population
	27780-82			Runge		Projected and present total and social housing needs
182	28369-73	Sept. 9		Clarke	COPE/ITC	Housing rents; quantity buying of Inuvik co-op enabled them to build nice homes; difficulty of repairs on public housing; Government promises about land and new house to those moving from Aklavik to Inuvik;
189	29326-32	Sept. 22		Hill Sigler	NWT/AM NWT/AM	Protection from impact of development; Mayor Robertson will speak on behalf of Inuvik on next panel; population growth projection
	29335-40			Hill		Problem of short-term population growth and voting privileges
	29352-55			Berger		Decline in population; numbers associated with Canadian Forces Station
	29394-401			Robertson	NWT/AM	Growth rate of Inuvik, absorbing population increase predicted; availability of granular material from Campbell Hills; problems of sewage and water facilities to handle population influx

COMMUNITIES - INUVIK (continued)

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189	29416-26A	Sent. 22	YK	Robertson Smith Berger	NWT/AM NWT/AM	Estimate of non-assessable federal and territorial properties in Inuvik, their worth in taxes or grants in lieu of taxes, Northern Canada Power Commission; assistance to in-migration of unemployed persons; planning infrastructure, policing, amount of housing property; current population of Inuvik
190	29602-09	Sept. 23		Bennett	NWT/AM	Projected housing requirements, if pipeline; history of Inuvik; Federal government housing, private home construction; current housing situation, extra funds needed; high cost of utilities
	29617-25			Feilden	NWT/AM	Original population design; water supply and sewerage projects; sub-division construction; residential land development
	29627-33			Feilden		Lainsbury's population predictions for Inuvik, if pipeline; housing units required; lead time needed to prepare Inuvik for development
191	29774	Sept. 24		Hagglund	MVPI	Terminal facilities - DPW, NTCL, KAPS, Imperial Oil, NCPC
200	31653	Nov.15		Genest	CAGPL	Income from hydrocarbon exploration employment

COMMUNITIES - JEAN MARIE RIVER

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C-29	2856	Sept.19	JMR	Norwegian	Citizen	Community sharing of moose, garden produce, fish
	2861-62			Dikaitis	Citizen	Spirit of the community

COMMUNITIES - NAHANNI BUTTE

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C-24	2409	Aug.23	TL	Nahanni Berger	NWT IB/MA	Map by P. Nahanni, showing local communities, trap lines and hunting areas
C-26	2655	Sept.9	FS	Villeneuve	Citizen	Traditional lifestyle re hunting and trapping in mountain

COMMUNITIES - NORMAN WELLS

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XV	1662	Mar. 11	YK	Dau	CAGPL	Operating and Maintenance District HQ
XXXVII	3361	Apr. 10		Williams	CAGPL	Winter road
XXVIII	3460	Apr. 11		Scott	MVPI	Icings, fish overwintering
XXX	3750	Apr. 15		McMullen	CAGPL	Number voice channels, communications system
XXXII	4008-10	Apr. 18		McMullen		54 channels between Fort Simpson & Norman Wells
XXXVIII	4905	May 14		Williams		Beginning of snow road construction
	4921-22			Lucas	CARC	Territorial Land Use Regulations
40	5221	May 16		Fielder	CAGPL	Operations and maintenance district headquarters
42	5488	May 21		Fielder		Active layer, deepest depth in September
C-II	71	Apr. 3	AK	Greenland	Citizen	Discovery of oil
C-10	850	June 26	WL	E.Yakaleya	Citizen	Oil discovered; arrival of white people
53	7151	Aug. 13	WH	Hemstock	CAGPL	Proven reserves
55	7621	Aug. 15		Hughes	CARC	Have extensive built facilities
C-20	1950	Aug. 7	FCH	G. Tobac	Citizen	Gas extracted by whites
C-21	2076-2218	Aug. 9	NW			Community hearing held
C-22	2233	Aug. 11	WH	A. Wright	Citizen	Only one obvious route for pipeline & highway
62	8891	Sept. 16	YK	Mirosh	Foothills	Location of Foothills district office re communication systems
66	9770	Sept. 22		Kosten	Foothills	Daylight hours when construction begins
	9788			Kosten		Spreads to be started on either side in January
	9793			Kosten		Light in late November, early December

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68	10052-53 10061-64	Sept. 24	YK	Hushion	Foothills	District headquarters for Foothills Possibility of location of maintenance supply depot
70	10558	Sept. 26		Longlitz	MVPI	Shut-down date of April 15 re: winter construction
71	10654 10719-21	Oct. 14		Bayly Longlitz Marshall	COPE/ITC CAGPL	Shut-down dates last year Testing re: frost penetration, use of all terrain vehicles
74	11000-01	Oct. 17		Williams	CAGPL	Available daylight re: working light hours
79	11692 11718	Nov. 3		Minning Dabbs	CAGPL CAGPL	Borrow site at Oscar Creek in vicinity of Norman Wells Comparison with Inuvik and Norman Wells test sites results of revegetation
79	11733 11746	Nov. 3		Harlan Berger	CAGPL	River icing at Canyon Creek near Norman Wells Area between Inuvik and Norman Wells - Lower Mackenzie Boreal forest
81	12079 12090			Minning Hemstock	CAGPL	CAGPL prepared to barge borrow from across river Up to 100,000 oil drums buried at Norman Wells
83	12354 12370	Nov. 7		Scott Hemstock Scott Minning	MVPI	Proximity of gravel pit to raptor nest Choice of community quarry as gravel source
85	12707	Nov. 12		Williams		Oil in Canol line used to run pumps
86	12994	Nov. 13		Gibbs	Foothills	Exhibit, working light time
90	13645	Nov. 19		Hemstock		Use of same communications facilities by oil pipeline
101	15398 15538	Dec. 11		Finney Zoltai	Foothills CARC	Need for study of raptor nesting south of Norman wells Possible groundwater disruption problems
103	15735 15824	Dec. 15		Stein Stein	CARC	Construction routing re: fishing resource Three Day Lake location
109	16613	Jan. 14		McT-Cowan	EPB	Crossing of Mackenzie area in the vicinity of Norman Wells; air traffic, frequency
C-27	2763-64	Sept. 10	FS	Workman	CAGPL	Company town re Imperial Oil was paternalistic provider
C-28	2824	Sept. 10	WR	P. Nahanni Citizen		Position on map re Fort Wrigley trappers
C-30	2916-17	Oct. 6	PP	Ellwood Carter	Foothills CAGPL	Permanent maintenance, operations positions
C-34	3305	Oct. 15	YK	Workman		Economical to supply gas
C-35	3389	Oct. 22	LI	Carter		Operations and maintenance centre
C-36	3508	Jan. 29	IN	Workman		CAGPL district office - manpower requirement
C-39	3721	Feb. 18		Hill	Citizen	Suggested headquarters for Mackenzie Valley Pipeline Authority
112	17026-27	Jan. 20		Horsfield	GPC-D	History of oil field
116	17657	Jan. 24		Rempel	GPC-D-I	Back-up equipment available for Delta Environmental Protection Unit
117	17890-91	Jan. 26		Bayly	COPE/ITC	Employment of natives
121	18426 18443	Feb. 10		Stein Barry	COPE/ITC COPE/ITC	Spawning migration routes of anadromous fish species Migrant birds - attraction to ice surface oil spill - impact
130	19737	Mar. 16	YK	Marshall	CAGPL	Relocation of construction facilities
162	25051-59	July 13		Trusty	CAGPL	Development orientation; non-native population concentration
165	25597	July 19		Reesor Ellwood	NWT/AM Foothills	Winter road connects community with construction camp
170	26457-58	Aug. 16		Jensen	Foothills	Medical facilities
189	29392-93	Sept. 22		Smith	NWT/AM	Implementation of property tax, settlement under taxation ordinance
191	29774	Sept. 24		Hagglund	MVPI	Steel pile wharf owned by Imperial Oil; public wharf operated by DPW

COMMUNITIES - OLD CROW

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XXV	2956	Apr. 8	YK	Clark	CAGPL	Route change due to environmental concerns
XXXIV	4428-33	Apr. 22		Dau	CAGPL	Spread camp A located near Old Crow
	4443-48			Williams	CAGPL	Location, spread camp
	4491			Williams		Construction spread A
XXXVII	4718	May 13		O'Rourke	CAGPL	Mile Post 335 on the pipeline, stockpile site seven miles north-east
XXXVIII	4952	May 14		Williams		Traffic, vehicle passes
47	6200-02	June 3		McT-Cowan	EPB	Area of human activity - only contact for caribou
	6209-10			McT-Cowan		Map, impacts flagged
50	6679-98	June 6		Horte	CAGPL	Possible route to the south; compensation for damage
C-I	45	Apr. 2	AK	Bayly	COPE/ITC	Interior route location
51	6748-50	Aug. 11	WH	Berger		Community hearings, routing of Prudhoe Bay gas
	6783			Williams		Location of the Eagle Plain, proximity to Old Crow
	6815			Hemstock	CAGPL	Proximity to pipeline routes re: community gas laterals
	6820			Berger		Eagle Plain basin located south of Old Crow
52	7047	Aug. 12		Williams		Social impact of route
	7053			Templeton	EPB	Opposition of community to interior route
53	7088	Aug. 13		Williams		Impact of a road on community
-	7096			Banfield	CAGPL	Environmental impact lessened by shorter tie-in laterals
53	7183	Aug. 13	WH	Joe	CYI	Opposition to the pipeline
	7296-77			Thompson	CARC	Position toward Arctic National Wildlife Range
54	7441	Aug. 14		Banfield	CAGPL	Fairbanks Corridor; wishes of the Old Crow people
55	7633	Aug. 15		Morlan	CARC	Klo-kut; the old chief site and others near Old Crow; archaeological sites
	7639-41					Winter road construction to Old Crow caused destruction at Klo-kut site
C-22	2220	Aug. 11		Berger		Community hearing; implications of CAGPL interior route
	2229			C.Pearson	NWT/CC	Severity of impact
C-23	2360-61	Aug. 14		Berger		Community hearing in Old Crow
	2366			A.Cuvret	Citizen	Conflict with southern development interest
	2369			Berger		Time Frame & purpose of community hearing
	2375			R. Genelli	Citizen	Analogy of Old Crow dictating changes in Toronto
	2377			D. Taylor	Citizen	Project roads would cause intolerable increase in mosquitoes near Old Crow
82	12192	Nov. 6		Williams	CAGPL	Construction of snow road by Old Crow
87	13092-94	Nov. 14		Berger Reeves	 Foothills	Importance of area archaeologically; bulldozing Klo-kut site nearby
93	14196	Dec. 1	YK	Gunn	CAGPL	Sensitive environmental areas
94	14244	Dec. 2		Jakimchuk	CAGPL	Caribou - food source
	14287			Jakimchuk		Migration of caribou through Old Crow
	14351-59			Banfield		Caribou as a food source; compensation
95	14524	Dec. 3		Veale	CYI	Attitudes of communities re: Old Crow community hearing
96	14550-51	Dec. 4		Jakimchuk		Caribou as a resource; annual kill data
	14568-70			Berger Jakimchuk	 CAGPL	Hunting pressure from Old Crow; seismic activity south of Old Crow village
	14590-92			Jakimchuk		Snow road from the Dempster to the Old Crow area; impact on caribou migration
	14624-44			Jakimchuk		Caribou migration route past Old Crow; snow road to Old Crow; access between Dawson and Old Crow
	14687-88			Jakimchuk		Old Crow Flats - sensitive environmental area; fishing by Old Crow people at the confluence of the Porcupine and Crow Rivers
	14705-06			Veale	CYI	Harassment of caribou by Renewable Resources, Peter Lord's statement in Old Crow

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97	14713-15	Dec.5	YK	Jakimchuk	CAGPL	Alleged animal harassment by Renewable Resources
98	14954	Dec.8		Jakimchuk		Human activity, impact on Porcupine Herd
103	15751-54	Dec. 15		Walker	CARC	Annual fish catch
104	15944-52	Dec. 16		Steigenberg,	CARC	Historical domestic fish catch figures, methods, present significance
105	16065	Dec. 17		Marshall	CAGPL	Heavy utilization of fish resources historically
106	16209	Dec. 18		Calef	CARC	Migration re: disadvantage of interior route
	16228			Calef		Hunting area crossed by pipeline routes
107	16294	Jan. 12		McT-Cowan	EPB	Repeated caribou migration through Old Crow
108	16516-20	Jan. 13		Berger McT-Cowan		Muskrat hunting in the Old Crow Basin, impact of pipeline construction on furbearer population; caribou-food source
	16522-26			Gourdeau	EPB	Interior route proximity; impact; land claims
	16529			Templeton	EPB	Interior route, avoidance of Old Crow
	16566-67			McT-Cowan		Area of muskrat production
	16572-73			Templeton	EPB	Retention of traditional rights for Old Crow people if the Western Arctic Wildlife Range is extended across the Yukon
110	16847	Jan. 15		Calef	CARC	Calef's alternative route on the interior, avoidance of Old Crow
111	16924	Jan. 16		Calef		Residents' information on wintering caribou
138	21026-29	Apr.6		Mossop	MVPI	Ecological study of Old Crow Flats, problem of access to flats; involvement of people in program
149	22750-55	May 3		Ritter	NWT IB/MA	Place name study done among Kutchin people of the area
151	23047-62	May 5		Irving	CYI	Archaeological research, Old Crow area
	23166			Smith	CYI	Opposition to a pipeline route that would affect the community
153	23463-67	May 7		Sharp	CYI	Number of hunters, trappers in Old Crow region
C-52	5993-94	May 13	CAL	C. Osborne	Citizen	Style of life of residents
157	24102-05	July 5	YK	Hobart	CAGPL	Welsh's study, shift from nomadic hunting life to 20th century; report by Belkci "Vunta Kutchin Social Change"
192	30025-30	Oct. 4		Ritter	MVPI	Decline in language blamed on school system, impact of coastal and interior routes on language retention; comparison of Old Crow, Burwash Landing, language retention
203	32126-40	Nov.18		Veale	CYI	Old Crow land claim: control over lives and lands; preservation of Old Crow Flats; control over environment; prejudices if pipeline built before claims settled; Old Crow culture, impact of development on culture; relationship with Porcupine caribou herd
	32151-56			Veale		Impact of pipeline along interior route; fear of environmental damage, economic changes; social and cultural problems; fear of violent reaction to pipeline

COMMUNITIES - OTHER

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XXXVII	4793-94	May 13	YK	O'Rourke	CAGPL	Fort Nelson
C-4	184-86	May 28	HR	Williams	CAGPL	Enterprise, stockpile site
C-5	405-407	May 29		Graves	Citizen	Pine Point schools, native employees
C-6	501-506	May 30		Sayie	Citizen	Pine Point mine, impact on the area
C-7	637-38	June 24	FF	Naedzo	Citizen	Fort Radium, dredging of Great Bear Lake
C-10	835-70	June 26	WL	Citizens		Hearings held at Willow Lake
C-16	1606-9	July 13	OC	B.Sharpe	Citizen	Ross River, Anvil Mines
58	8236-7	Aug. 20	YK	Blair	Foothills	Fort Simpson; band concern for a link-up of Mackenzie Highway and Fort Nelson B.C.
	8240			Blair		Detah re: Foothills community discussions; interior and coastal routes

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60	8550	Aug. 22	YK	Scott Bouckhout	MVPI Foothills	Fort Alexander
	8559			Fawcett	Foothills	Pine Point, community supply laterals
51	6812	Aug. 11	WH	Hemstock	CAGPL	Fairbanks, Fort Yukon Corridors pass near Dawson; employment and economic development opportunities
	6816			Hemstock		Fairbanks, Fort Yukon, Kaktovik
	6822			Hemstock Berger		Barrow, naval petroleum reserve No. 4
53	7126	Aug. 13		Trusty	CAGPL	Dawson - proximity to Fort Yukon & Fairbanks corridors
	7135			Trusty		Difficulty for company to control population
	7163-71			O'Rourke	CAGPL	Skagway as logistical centre in alternative corridors
	7180-83			Joe	CYI	Burwash, Haines Junction, Carcross, Teslin, Witcheye, Aishihik, Wesketahin, Dalton Post, Laberge Village, Dawson, Pelly Carmacks, Fort Selkirk, Upper Liard, Ross River, Mayo
53	7186-90	Aug. 13		Joe	CYI	Ross River, Burwash Teslin, Dawson, Carcross, Mayo, Haines, Fort Selkirk, Little Salmon, Big Salmon, Minto, Pelly Crossing, Carmacks, Whitehorse Village, Carmacks Indian Village, Ross River
	7191			Joe		Burwash, Haines Junction, Whitehorse, Teslin, Upper Liard
	7193-94			Sprecker	CYI	Glenallen (Alaska)
	7201-03			Sprecker		Tok, Valdez
	7208			Sprecker		Valdez
	7217-20			Sprecker		Fairbanks, Glenallen, Tonsina, Valdez
C-20	2016	Aug. 7	FGH	F. Barnaby	Citizen	Childhood in Colville Lake
C-27	2241	Aug. 11	WH	D. Lloyd	Citizen	Faro
	2253			I. Armstrong	Citizen	Construction camps - Fort Radium
	2261			R. McRobb	Citizen	Fairbanks - not provided with gas
	2285			A. Netherton	Citizen	Depression years in Dawson
C-23	2302	Aug. 14		D. Greg	Citizen	Carcross
	2303			D. Greg		Skagway
	2314-15			A. Fekete	Citizen	Fairbanks - differences from potential impact areas
	2319			A. Fekete		Peace River
	2352			C. Taylor	Citizen	Fort Nelson; Haines Alaska
	2356			C. Taylor		Dawson
62	8890	Sept. 16	YK	Mirosh	Foothills	Fort Nelson additions to existing pipeline communication systems
65	9534	Sept. 19		Berger		Foothills supply lines not chilled to Rae & Pine Point
	9586			Claridge Davison	Foothills Foothills	Geotechnical problems of unchilled supply lateral to Pine Point
	9592			Berger		Community hearings announced re Pine Point, Fort Resolution
	9601			Mirosh		Enterprise - staging & transfer area
68	10112	Sept. 24		Mirosh		Ft. Nelson - highways to Ft. Simpson
70	10596	Sept. 26		Berger		Community hearings at Sachs Harbour, Arctic Red River, Paulatuk, Holman Island, Tuktoyaktuk in 1976
71	10654	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Shut down dates last year for Beaufort and Islands, Banks Island
75	11057	Oct. 20		Weedon	CARC	Kaktovik, Alaska
76	11170	Oct. 21		Weedon		Kaktovik; impact of North Slope route
	11189-96			Weedon Parker	CARC	Pipeline impact, advancement of additional funds to communities; Fairbanks, Anchorage, Glennallen, Copper Centre, Valdez, increased demand for social services; tax increases
	11304-05			Hughes	CARC	Dawson - area of sporadic permafrost
77	11475	Oct. 22		Roed	CARC	Pine Point; community gas use, feeder lines re: edge of the shield route; Fort Resolution

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78	11497	Oct. 23	YK	Roed		Paulatuk, re: Polar Gas pipeline route
	11517			Roed		Fort Chipewyan, re: crossing of Great Slave Lake
86	12821	Nov. 13		Drew	Foothills	Terrain sensitivity, pipe lateral routes, Pine Point, Rae-Edzo
	12897			Drew		Borrow availability, Rae-Edzo
87	13060	Nov. 14		Drew		Rae-Edzo, lateral line, distance from highway
88	13295	Nov. 17		Taylor	Foothills	Rerouting around park and golf course, Pine Point
96	14550-51	Dec. 4		Jakimchuk	CAGPL	Arctic Village, Fort Yukon; caribou as a resource; annual kill data
	14568-70			Jakimchuk Berger		Arctic Village - hunting pressure
98	14027	Dec. 8		Scott	MVPI	Colville Lake, Paulatuk, caribou as food source
99	15121-35	Dec. 9		Hayden Finney Whitney	Foothills Foothills Foothills	Aquatic systems, birds, mammals, studies along lateral route
106	16228	Dec. 18		Calef	CARC	Arctic Village, Kaktovik re: hunting areas crossed by routes
	16231-32			Calef		Coppermine re: tundra wintering of caribou
	16273-77			Lent	CARC	Fairbanks impact of pipeline re: air pollution; ice fog re: transportation, education, health; overloading of systems; electrical outages; telephone systems; rapid turnover in personnel; crime rate increase; housing shortage re: housing, heating costs; comparison of population with Yellowknife
109	16727	Jan. 14		Veale	CYI	Application for community hearings by those communities along the Fairbanks corridor; Burwash Landing, Haines Junction, Champagne, Aishihik, Teslin, Upper Liard
C-25	2566	Sept. 8	FS	Ivans	Citizen	Transient populations - impact in Fort McMurray, Hawaii
C-28	2705	Sept. 10	WR	H. Hardisty	Citizen	Peace and quiet, Willowlake River
C-31	2981	Oct. 7	FR	T. Beaulieu	Citizen	Fort Rae, pipeline impact on Dene future
	2986-87			Lockhart	Citizen	Fort Resolution - land treaty
	2989-92			Bosley	Citizen	Pine Point - mining impact on trapping grounds, lake pollution
	2992-93			Sayine	Citizen	Dawson Landing - impact of water pollution on commercial fisheries
	2999-3004			Morin	Citizen	Pine Point, Fort Resolution - housing, feeder line construction, camp site, housing, training programs - natives, qualifications
	3011-12			Yale	Citizen	Fort Resolution - benefits from Pine Point development
	3021			Menez	Citizen	Highway opening between Grimshaw, Hay River - impact on Fort Resolution
	3023			Menez		Fort Resolution - Dene people pushed aside by outsiders
	3027-31			Menez		Fort Resolution - Analogy re impact of Dene takeover of southern Canada; potential saw mill industry - poor management practices; local materials utilization by applicant
C-32	3033-40	Oct. 8		Orbell	Citizen	Development in Fort Resolution re: Catholic Mission, wharf sites, freezing facilities, radio station, airport, mine, sawmill
	3059			McConnell	Citizen	Fort Resolution
C-33	3167-69	Oct. 9	FS	Stevenson	Citizen	Fort Fitzgerald re: employment, welfare, social problems
	3187			Applewhite	Citizen	Coal Harbour, Fort Chimo, Fort Churchill, Frobisher Bay, Sudluk, Great Well River, re: development similar to pipeline; Rome, Alberta re: railroad from Pine Point; Gjoa Haven, Pelly Bay re: railroad employees

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C-33	3188	Oct. 9	FS	Applewhite	Citizen	Fort Chimo re: American air force base; Fort Churchill re: "backward progress"
C-34	3298-99	Oct. 15	YK	Cook	Citizen	Rankin Inlet re: change caused by influx of white people, social problems; Grise Fiord
	3340	Oct. 16		McRae	Citizen	Thompson, Manitoba re: closeness of community
	3343-44			McRae		Schefferville, Quebec controlled by Iron Ore Company of Canada; Grand Val, B.C., no doctor; Snow Lake, Manitoba, no surgical facility; El Dorado, Saskatchewan, no movie theatre; Grande Cache, Alberta, no dentist; Cassier, B.C., no adult education; Pine Point, no secondary school; Elsa, Yukon, cost of beer
	3347-48			Findlay	Citizen	Inevitability of change in community
	3373			Stephansson	Citizen	Cambridge Bay and Frobisher Bay re: effects of DEW line sites on people
C-35	3392	Oct. 22	LI	Berger		Fort Rae, Pine Point - feeder laterals
	3409			Wood	Citizen	Wrigley - outside workers entering community
	3412			Berger		Fort Rae - control of outside workers entering community
C-36	3447	Jan. 28	IN	Alonik	Citizen	Coppermine - people's position on pipeline construction
	3456A-56B			Raddi	Citizen	Sachs Harbour, Komakuk - source of caribou meat
	3463			Hodges	Citizen	Coppermine - native employment
	3467-68			Albert	Citizen	Coppermine - native employment
C-38	3652-55	Feb. 12		Allison	Citizen	Anchorage - social impact of Alyeska Pipeline
C-39	3752	Feb. 18		Klassen Berger	Citizen	Impact of Alaska Pipeline on Anchorage and Fairbanks Police Force
113	17218-45	Jan. 21		Hobart	GPC-D	Gulf hiring Coppermine residents for exploration work, impact on community; Sachs Harbour only community not dependent of welfare
	17258			Bayly Hobart	COPE/ITC	Paulatuk, Holman, Sachs Harbour, may be concerned with oil/gas development
	17267-72			Hobart		Impact on Coppermine of employment with Gulf exploration, methods of study
116	17692-95	Jan. 24		Adjun Pederson Kamingoak	Citizen	Gulf employment in Coppermine benefits to natives
	17728			Webb	GPC-D	Whitefish Station east and Kittigazuit whale hunters
117	17830-33	Jan. 26		Sider	GPC-D-G	Coppermine, Gulf and Imperial employment program
	17895-96			Sider		Coppermine Work force, Swimming Point, Spence Bay, Pincher Creek
	17915			Bayly Sider		Sachs Harbour, high per capita income
118	17950	Jan. 27		Goudge Sider	MVPI	Gulf's labour from Coppermine
121	18463	Feb. 10		Sergeant	COPE/ITC	Point Borrow, Point Hope - marine culture - whaling
122	18498-99	Feb. 11		Smith	COPE/ITC	Paulatuk, Sachs Harbour, Holman Island, Coppermine, Bathurst Inlet, Perry Island communities - utilization of, studies on seals
	18503-05			Smith		Guelph - Ontario Veterinary College - ringed seal - oil impact studies, blood studies
	18639			Smith		Holman Island - dependence of seal population on south-eastern Beaufort Sea
	18705-10			Smith Stirling	COPE/ITC	Holman Island, Paulatuk, Sachs Harbour, Banks Island - size of seal catch; Herschel, Holman Islands - movements of seals in Beaufort Sea, Amundsen Gulf

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136	20749	Mar.26	YK	Peet	MVPI	Rankin Inlet, commercial fishery
	20757-59			Peet		Commercial fishery, Lac La Martre, Cambridge Bay
140	21309-10	Apr.8		Usher	COPE/ITC	Sachs Harbour - Banklanders, opposition to petroleum exploration - major concerns
144	22028-29	Apr.15		Bean	NWT IB/MA	Cambridge Bay, Advisory Council, representatives from federal agencies
146	22246-51	Apr.27		McCullum	NWT IB/MA	South Indian Lake, Manitoba, affected by Churchill River diversion project
	22258-59			McCullum		Construction towns for major development projects, racism
	22311-20			Young	NWT IB/MA	Communities to be affected by Manitoba Hydro Project, northern Manitoba
147	22373-75	Apr.28		McCullum	NWT IB/MA	Terrace, B.C., C.N.R. development in the area
	22379-85			Jones	NWT IB/MA	Port Edward, B.C. fish cannery
	22464-466			Young		Nelson House, Manitoba Hydro
	22470-72			Jones		Port Simpson, B.C., fish cannery
148	22632-69	Apr.29		Rushforth	NWT IB/MA	Communities in the Great Bear Lake region
	22604-05			Nahanni	NWT IB/MA	Colville Lake, importance of their hunting routes, routes used by 50% of population shown in same manner, on land use maps, whether large or small community
151	23147-50	May 5		Jacquot	CYI	Burwash Landing, establishment of weather station, air strip; community in days before construction of Alaska highway
152	23254-57	May 6		McClellan	CYI	Carcross, Teslin, Tagish - native employment opportunities, desire for steady work
	23340-43			Notti	CYI	Impact of oil development on Anchorage, Valdez, Yakutat; changes in community value system
	23351-54			Notti		Corporate structure set up under land claims settlement
	23377-78			Veale	CYI	Possible Yukon community hearings in Beaver Creek, Carcross, Dawson City, Mayo, Pelly Crossing, Carmacks, Ross River
153	23408-38	May 7		Sharp	CYI	Ross River, early development impact
	23417			Sharp		Faro, townsite for Anvil Mine, beginnings
	23436-39			Sharp		People moving from Ross River to Faro, commuting
	23473-81			Sharp	CYI	Social indicators of effect of Anvil Mine development on Ross River
	23496-97			Sharp		Travel between Faro and Ross River
C-40	3812	Feb.23	AK	Sittichinli	Citizen	Discovery of gold in Dawson, impact on caribou
	3882-84			Gordon	Citizen	Impact of Alyeska Pipeline on Fairbanks, Anchorage, Barrow
C-41	3934-35	Mar.3	HOL	Joss	Citizen	Copper mine oil employees
	3997-98			Kataoyal	Citizen	Success of Holman Eskimo Co-op
	4001-04			W. Goose	Citizen	Where people lived before moving to Holman Island: Eiluk, Kugiak, around Minto Inlet, Walker Bay
C-42	4082-83	Mar. 5	SACHS	P. Essau	Citizen	Sachs Harbour people, social impact of jobs and money
	4116	Mar. 6		A. Carpenter	Citizen	Pipeline will increase cost of living in Sachs, Paulatuk, Holman Island
155	23767-80	June30	YK	Forrest	NWT IB/MA	Minto, Tanacross, Alaska; Bettles, Allakaket, injunctions against Trans-Alaska Pipeline Systems; Stevens Village, land claim
156	23905-06	July1		Gillie	NWT IB/MA	Demonstration School at Rough Rock Chinle, Arizona
	23963-70			Yazzie	NWT IB/MA	Rough Rock school, Arizona
	23973-74			Gillie		School in Rae
C-51	5175-83	May 12	VAN	P. Chataway	Citizen	Impact of Alaska pipeline on Valdez, Barrow, Prudhoe Bay
C-52	5289-90	May 13		N. Llanos	Citizen	Calgary, demands, activity, during operation, construction
	5397			J. Ryan	Citizen	Lac La Martre, changes brought by construction, Mackenzie Highway

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C-53	5538-39	May 14	CAL	Wolfleg	Citizen	Calgary - administrative centre for oil, gas, sulphur, service and supply industries
	5546			Crouteau	Citizen	Economy of Fort Chipewyan changed due to building of Bennett Dam, for the worse
C-54	5582-85	May 17	EDM	Cavanagh	Citizen	Impact on Edmonton of the pipeline project
	5589-90			McKenzie	Citizen	Gas coming to Edmonton will increase the cities economic importance
	5626-31			Manning	Citizen	Town of Slave Lake
	5651			Kuhn	Citizen	Economic growth and consequences, Edmonton, of Mackenzie development
	5695-97			Leeson	Citizen	Social, economic impact on Edmonton, rising cost of housing
	5722-27			Robertson	Citizen	Impact on Edmonton
C-55	5798	May 18		R. Dion	Citizen	Edmonton, impact of pipeline; presence of large labour force
	5813-23			M. Venne	Citizen	Impact of development on Fort McMurray; Native Outreach Program
	5892-92			D. Leadbeater	Citizen	Disagreement with official brief, City of Edmonton; problems, possible impact on the city
	6006-08			J. McFarlane	Citizen	Impact of construction camp on hunting, trapping community
C-56	6053	May 19	REG	R. Allan	Citizen	Regina, impact of pipeline on manpower, availability of capital
	6115-16			C. Alexander	Citizen	Resolute Bay, Pond Inlet, Grise Fiord, Arctic Bay
C-57	6155-60	May 20	WIN	W. Norrie	Citizen	Winnipeg's electric utility, heating costs
C-59	6409-16	May 26	TOR	N. Zlotkin	Citizen	Native Communities, Northern Ontario; White Dog, Grassy Narrows, One Man Lake Reserve; hydro electric project
C-63	7110-19	June 1	MTL	Lafond	Citizen	St. Scholastique, Mirabel
C-64	7235	June 3	OTT	Watton	Citizen	Examples of development changes in Fort George
C-67	7677	June 8	HAL	J. Lotz	Citizen	Peterhead, Scotland, impact of pipeline
	7809			G. Knight	Citizen	Destruction of Africaville in Halifax by redevelopment
158	24186-95	July 6	YK	Hobart	CAGPL	Pond Inlet, employment with Pan-arctic; breakdown of sharing, hunters selling meat; Pelly Bay, local co-op; Coppermine
159	24310-26-A	July 7		Boorkman	CAGPL	Alyeska pipeline, effects on communities' ability to provide services; revenue shortfall; special assistance funds to "impacted" communities; inability of utilities to provide necessary services; loss of leadership as people leave to work on pipeline; interruptions in plane service
	24332-44			Boorkman		Alyeska, all hiring done through Fairbanks hiring halls, re-inforcement of in-migration patterns; to be hired, essential that worker go to Fairbanks
	24358-65			Boorkman		Municipal government set-up, budgeting systems; State of Alaska control in remote areas; planning departments, some Alaska communities; borough governments; impact of Alyeska on Valdez, Fairbanks
	24377-80			Boorkman		Fairbanks, Valdez, loss of policing to Alyeska pipeline; financing of police forces
	24413-52			Boorkman		Revenue sources, municipal government, Fairbanks; percentage from sales, property taxes; provision of sewer, water facilities; Valdez, need for increased services; long-term municipal financing; varying rates of inflation
	24506-12			Boorkman		Fairbanks, people living in tents, campers
	24517			Boorkman		Fairbanks, need for daycare services
159-A	24608-09			Boorkman		Differences between Valdez, Hay River, effects of pipeline

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160	24653-55	July 8	YK	Rushforth	NWT IB/MA	Bear Lake people, decision-making still based upon community consensus; high value placed on hard workers
	24677-80			Rushforth		Bear Lake people, maintenance of extended family, degree to which arranged marriages take place
	24688-97			Rushforth		Bear Lake people, role of women; education system
161	24872-79	July 12		Trusty	CAGPL	Gulf hiring in Coppermine
162	24931-32	July 13		Hollands	CAGPL	Fort McMurray, bad feelings between native, white workers due to different rotation schedules
162	24941-42	July 13		Trusty	CAGPL	Katovik, Alaska, employment arrangement with Alaskan Arctic Gas
	24980-83			Trusty		Van Ginkel report, Pine Point not studied; possible out-migration
	25061			Trusty		Staging of materials, supplies, Enterprise
163	25150-60	July 14		Hobart	CAGPL	Study in Coppermine by Hobart, alcohol sales and illegal behavior
	25208-09			Hobart MacQuarrie	MHA/NWT	Coppermine, Arctic Bay, studies by Hobart
	25237-39			Trusty		Prudhoe Bay, prevention of in-migration by transients; Churchill Falls development; Fort McMurray
	25264-65			Hobart		Nort Star Harbor, "back to the land" situation; Baillie Island fishery
	25269-74			Hobart		Nanisivik Mine, Strathcona Sound; Arctic Bay, Rankin Inlet
164	25384-85	July 15		Hobart		Coppermine, employment of local men by Gulf
166	25791	July 20		Brody	COPE/ITC	Shortages of country foods in Frobisher Bay
167	25965-66	July 21		Brody		Arctic Bay, native concerns about whites, liquor consumption
	25974-83			Usher	COPE/ITC	Sachs Harbour, calculation of amount of country food
168	26078-84	July 22		Brody		Rankin Inlet, impact of mine employment; closure of the mine
	26139-41			Brody		Pond Inlet, increases in alcohol use, drinking problems; recruitment of workers by Pan Arctic Oil; continuance of mixed economy
	26148-67			Brody		Alcohol use, Pond Inlet and Arctic Bay; differences between evidence of Hobart, Brody
	26184-89			Brody		Impact of change in administration opposition to research in Igloodik
	26192-201			Brody		Baker Lake, rejection of investigation
C-75	8321-22	Aug. 21	CL	D. Tabac	Citizen	Easy life in big cities, Calgary, Vancouver
171	26566-71	Aug 17	YK	Burrell	Foothills	Question of installing telex system in small communities for hiring, transportation of workers, keeping workers in their area, Holma, Paulatuk, North Star Harbour, Sachs Harbour
	26579-87			Dixon	MVPI	Fairbanks, Anchorage, effect of Alyeska, increases in population and jobs; establishment of Impact Information Centre
	26619-40			Dixon		Fairbanks North Star Borough, participation in planning, monitoring of hiring program, values held by people in area
	26688-90			Dixon		Alaska, communities not linked with Alyeska unaffected
172	26743-47	Aug 18		Dixon	MVPI	Fairbanks, impact of growing population
	26827-37			Dittrich	COPE/ITC	Great Whale River, social impact, Federal Government tussles re jurisdiction of native people; Frobisher Bay, white mans' recreation
174	27113-17	Aug 20		Dusel	NWT/AM	Fort McMurray water and sewer system; local inflation rate

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180	27950-51	Sept. 7	YK	Bayly Nessel	COPE/ITC MVPI	Hobart's study of Gulf Oil's project in Coppermine, preferential treatment of natives
182	28274-88	Sept. 9		McCombs	MHA/NWT	Fairbanks, Alaska boom periods, effects of rapid population growth; increase in crime, divorce, child abuse, mental health casualties, auto traffic, juvenile arrests, housing problems, average income, school populations; inability to conduct routine business, overcrowded recreational facilities; increased job turnover rates; demand for agency services; resentment towards pipeline workers in Fairbanks; changing character of community
	28298-304			McCombs		Funding of mental health programs, determining poverty and non-poverty communities; reaction of communities to Alaska Community Mental Health Services Act; providing mental health services to communities without involvement of local council participation of oil companies in providing community health services
	28319-20			McCombs		Savoonga, example of mental health para-professions workers within community
	28353-56			McCombs Clayton	MHA/NWT	Value changes in Fairbanks; migration from community; forum on pipeline issues held in Fairbanks
	28384			Clarke	COPE/ITC	Foothills' promise to provide surplus dining and sleeping facilities to small communities after construction
184	28488-86	Sept. 14		Atcheson	COPE/ITC	Frobisher Bay, native solution to juvenile delinquency, alcohol abuse
	28502-04			Atcheson		Frobisher Bay, Cape Dorset, mental health services
185	28587	Sept. 15		Schaefer	COPE	Overtaxed health care facilities and personnel in Fairbanks, Anchorage
186	28892-95	Sept. 16		Snowden	COPE/ITC	George River - co-op store, public political awareness
188	29205-12	Sept. 21		Neakok	COPE	North Slope Borough, population; capitalization of economic opportunities offered by development; local government; geographical area and location; revenue from Prudhoe Bay, budget
189	27410-14	Sept. 22		Scott MacLeod	MVPI NWT/AM	Township of Orillia, settlement, hamlets, cities in township; Township of Erin, participation of township council, funds raised by own community
189A	29495-98			R. Worl Mrs. Worl Berger	COPE COPE	Population of Barrow, Wainwright, Point Hope, Barter Island; non-Eskimo population of Barrow; medical facilities in Barrow
	29509			R. Worl		Programs established by local control in Barrow; The Barrow Child Advocacy Corporation and the Barrow Council of Alcoholism
	29526			Berger Buchholdt	COPE	Borough Government in Alaska, Barrow's village council
	29554-56			Buchholdt R. Worl		In-migration of whites into Barrow, impact on community
192	29880-937	Oct. 4		Baring-Gould	MVPI	Valdez, prior to and after construction of Alaska Pipeline
	29937-44			Bennett Baring-Gould	MVPI MVPI	Preparing Valdez for post-construction slump: promoting tourism, proposal for refinery; Valdez looking for a gasline; good financial condition because of terminal; rapid growth in Kenai, no tax benefits
	29944-49			Baring-Gould Bennett		Population percentage that left Valdez after earthquake; population of Valdez; transiency in community
	29950-53			Bennett		Glenallen, disenchantment between camp workers and town people; social problems from Valdez solved in Anchorage
193	30223-24	Oct. 5		Templeton	EPB	Valdez, Stewart - definition of municipal boundaries, tax revenue benefits
200	31652	Nov. 15		Genest	CAGPL	Arctic Bay, wage employment

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61-A	8706	Sept.15	YK	Mirosh		Foothills Yellowknife/Pine Point community gas service lateral

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C-72	8104-06	Aug. 11	RE	R. Whitford	Citizen	Economic, social and living conditions: houses, bridge at Frank's Channel, road from Junction to town, waterplant and pump house, recreation facilities, vocational school

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C-74	8291-92	Aug. 13	RL	M. Zoe	Citizen	People see destruction of area
	8300-02			Father Amourous	Citizen	Natives, migration, development endangers lifestyles

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62	8936	Sept. 16	YK	Scrimis	Foothills	Extension of C.N. facilities could benefit the community of Trout Lake
74	11008	Oct. 17		Williams	CAGPL	Snow roads; shut down of winter travel; D.P.W. of Northwest Territories, winter road from Trout Lake; thawed peatland area
77	11349	Oct. 22		Rutter	CARC	Area 1 re: Rutter's study and grouping of physiographic features of the Mackenzie Valley
136	20704	Mar. 26	YK	Peet	MVPI	Domestic fishery survey

COMMUNITIES - TUKTOYAKTUK

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XXXIII	4266	Apr.21	YK	O'Rourke	CAGPL	Transfer point, change barge operation style
XXXVII	4743	May 13		Bayly	COPE/ITC	Possible construction spread camps
44	5779-80	May 23		Horte	CAGPL	Not economically feasible to supply gas to communities
	5855-57			Horte		Gas service; costs
59	8479-80	Aug.21		Panel 3	Foothills	Concern re: Foothills potential barge use on Husky Lake (Eskimo Lake)
67	10018	Sept.23		Mirosh	Foothills	Tanker transport around Tuk
68	10124	Sept.24		Mirosh		Tanker transport around Tuk, shipping season
71	10674	Oct.14		Bayly Longlitz	MVPI	Land use permits; community reaction from the Hunters and Trappers Association
72	10750-67	Oct.15		Lewis	MVPI	Study of coastal processes along the Tuk peninsula; harbour and staging areas; sediment transfer; storm action; Babbage Bight; Beaufort Sea; dredging; Foothills transport of oil to Tuktoyaktuk; Husky Lakes
79	11713	Nov. 3		Dabbs	CAGPL	Test site for revegetation studies
	11726			Dabbs		Revegetation tests in winter of 74-75 at Tuk
81	12036-37	Nov. 5		Minning	CAGPL	Use of soil cement in Tuk Peninsula
82	12142	Nov. 6		Dabbs		Revegetation tests - stripping of tundra mat
	12183			Dabbs		Weather records do not show five years of continuous weather unsuited to vegetation
	12316-18			Dabbs		Size of plots at Tuk revegetation site
83	12337-48	Nov. 7		Dabbs		Testing of tundra mat removal and replacement at Tuktoyaktuk
88	13237	Nov. 17		Lawrence	Foothills	Imperial Oil sewage retention pond
89	13549	Nov. 18		Dabbs		Revegetation test site
92	14017-19	Nov. 21		Bayly	COPE/ITC	Fear of impact on fish if Tuk harbour used by Applicants as staging area
101	15448	Dec. 11		Zoltai	CARC	Terrain, vegetation, permafrost studies, E - SP

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108	16524	Jan. 13	YK	Berger		Impact of pipeline construction
C-36	3456A-56B	Jan. 28	IN	Raddi	Citizen	Source of caribou meat, fish
	3458			Raddi		Historical development
	3492-94			Adam	Citizen	Protection of community, trappers from unwanted guests
C-38	3676-78	Feb.15		Koe	Citizen	Tuktoyaktuk - potential as a tanker port
C-39	3727	Feb.18		Hill	Citizen	Extension of Mackenzie Highway From Inuvik
112	17041	Jan.20		Bliss	GPC-D	Climate of area
	17052			Bliss		Management of reindeer herd by Tuk people
	17068			Bliss		Fish, birds harvested; fur sales; reindeer harvest
113	17131-38	Jan.21		Hobart	GPC-D	Dissimilarities of Delta communities; visits to Inuvik, influence on Tuk
	17168-71			Hobart		Mean family income, mean income per job
	17234-35			Hobart		Welfare payments up when employment up
	17253-59			Hobart		Report to Gulf re employees from Tuk; employment statistics; reaction to separation from family
	17275			Hobart		Cannot extrapolate socio-economic information gained in Coppermine to working in oil exploration
116	17608-09	Jan.24		Stamberg	GPC-D-G	Concern of people about possible dredging or scaling of Liverpool Bay and Husky Lakes to accommodate module barges to Parsons Lake site
	17653			Rempel	GPC-D-I	Effect of development on hunting geese and other waterfowl
	17728			Webb	GPC-D	Whale hunters at Kendall Island and Kugmallit Bay areas
117	17770	Jan. 26		Rempel		Study of multiple use roads in area
118	17921-23	Jan. 27		Bayly Sider	COPE/ITC GPC-D-G	Rate of growth, control over impact, role in transportation
122	18498	Feb. 11		Smith	COPE/ITC	Abrahamson study - distribution, utilization of seals in Tuktoyaktuk, Cape Parry areas
	18527			Stirling	COPE/ITC	Location re proposed offshore drilling sites
	18603			Stein	COPE/ITC	Impact of dredging at Tuktoyaktuk Harbour on domestic fishery
132	20010	Mar. 18	YK	Williams	CAGPL	Area near Tununuk Junction of historical significance to natives of Tuktoyaktuk
C-44	4196-98	Mar. 8	TUK	Freeman	Citizen	Development is contrary to Eskimo way of life; people of Tuk favour controlled development
	4204-15			Schwartz	Citizen	Problems created by pipeline proposal, gas and oil exploration; historical background of community
C-45	4375-79	Mar. 10		Anderson	Citizen	Development in Tuk, history of the community, search for identity
C-65	7533-42	June 4	OTT	H.T. Schwarz	Citizen	Description of social changes, whale hunting
C-66	7652	June 7	CH	A. Holman	Citizen	Rejection of summer seismic operation by Council; federal government approval before sent to council; intervention of Chrétien, Minister of DIAND
179	27756	Aug. 27	YK	Runge	MVPI	Increase in cost of housing
202	32022-23	Nov.17		Thompson	CARC	Problems, alcohol use associated with CANMAR Project

COMMUNITIES - WHITEHORSE

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42	5447-51	May 21	YK	Berger		Hearings in August, 1975; evidence and alternate routes, Yukon supply routes
44	5781	May 23		Berger		Questions about community service
	5870			Bayly	COPE/ITC	Alternate routing section, hearings
49	6543	June 5		Horte	CAGPL	Evidence re: size of Arctic Wildlife Range
50	6684-85	June 6		Horte		Environmental differences between Yukon routes
C-16	1525	July 13	OC	H. Netro	Citizen	Drinking, social problems among native people
51	6812	Aug. 11	WH	Hemstock	CAGPL	Fairbanks, Fort Yukon corridors pass near Whitehorse; employment and economic development opportunities
52	7015-20	Aug. 12		Banfield	CAGPL	Availability of CAGPL gas for community use
53	7126	Aug. 13		Trusty	CAGPL	Proximity of Fairbanks and Fort Yukon corridors
	7135-36			Trusty		CAGPL control over population rise
	7163-71			O'Rourke	CAGPL	Role in logistics of alternative corridors
	7186			Joe	CYI	Beginnings in the Gold Rush
	7269			Collins	CARC	Conference 1970 on Wildlife Range Proposal
C-22	2219-95	Aug. 11				Community Hearings held
	2261	Aug. 11		McRobb	Citizen	Gas to community
	2284-89			A. Netherton	Citizen	History of highways in Yukon; impact
	2290-93			O. Posiwaschek	Citizen	City planning requirements
C-23	2296-2392	Aug. 14				Community Hearing
	2365			A. Cuvret	People's Land Comt.	Housing, sewage and transit situation
	2370			Berger		Relevance of the alternate route proposals
	2371			R. Genelli	Citizen	Concern of working people about economic impact
70	10596	Sept. 26	YK	Berger		Whitehorse formal and community hearings
75	11067	Oct. 20		Weedon	CARC	Discussions in the formal hearings at Whitehorse re: incremental effects of development upon wildlife populations
	11127			Weedon		Choice of route re: Whitehorse hearings
76	11303-05	Oct. 21		Hughes	CARC	Areas of permafrost zones; Fairbanks corridor
86	12987-88	Nov. 13		Lawrence	Foothills	Camp Takhini, sewage disposal
88	13249	Nov. 17		Lawrence		Sewage discharge, Camp Takhini
95	14523-35	Dec. 3		Scott Veale Berger	MVPI CYI	Desire for another community hearing in Whitehorse
96	14619-21	Dec. 4		Marshall	CAGPL	Transshipment point for pipe, equipment
104	15970-73	Dec. 16		Bayly Walker	COPE/ITC CARC	Aishihik Lake hydro-electric project re: environmental protection legislation, development of standards, specifications re: construction plans and practices
105	16031-32	Dec. 17		Berger		Transportation of gas from Delta along Dempster
151	23098	May 5		McClellan	CYI	Impact of Alaska highway construction
	23149-51			Jacquot	CYI	Growth of the city, construction of Alaska highway
152	23237-38	May 6		Cruickshank McClellan	CYI	Capacity to absorb impact of pipeline development

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XVII	1911	Mar. 13	YK	Williams	CAGPL	Consideration of residents in route selection
C-8	763	June 25	FF	J. Nielly	Citizen	Seasons, setting nets
66	9746	Sept. 22	YK	Mirosh	Foothills	Mackenzie highway complete to Wrigley
67	9963	Sept. 23		Mirosh		Summer spread in vicinity
	9989-91			Mirosh		Dependence on Mackenzie Highway to Wrigley
68	10093	Sept. 24		Mirosh		Mackenzie highway to be completed only to Wrigley at present
77	11350	Oct. 22		Rutter	CARC	Area 4 re: Rutter's study, the physiographic regions of the Mackenzie Valley
	11385			Rutter		High ice content lacustrine sediments in the area of Wrigley

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77	11396 11411	Oct. 22	YK	Rutter	CARC	High ice content deposits in soil
				Rutter		Studies conducted in Wrigley area; location of base camp
78	11507 11613 11639	Oct. 23		Roed	CARC	East of the Franklin route; fluted moraines
				Minning	CAGPL	North of Wrigley permafrost terrain is generally dominant
				Minning		Joining of stream near Wrigley into the Mackenzie River system
89	13425	Nov. 18		Gunn	CAGPL	Islands, sandbars, sensitive areas for waterfowl, shorebirds
90	13664	Nov. 19		Berger		Road built to Wrigley by 1979
97	14722	Dec. 5		Jakimchuk	CAGPL	CAGPL moose survey Mackenzie River Islands
101	15466	Dec. 11		Zoltai	CARC	Ebbutt Hills, higher terrain sensitivity than any other area south of Wrigley
C-28	2780-97 2802-03 2820 2822-24 2835	Sept. 10	WR	H. Hardisty	Citizen	Disputes with Federal government re COMINCO and land use permit, Mackenzie Highway, move from Old Town, education, opposition to pipeline
				G. Hardisty	Citizen	Highway, fear of becoming like Simpson; white takeover
				M. Nayally	Citizen	Fear of takeover by whites
				P. Nahanni	Citizen	Map re trappers from Fort Wrigley; new site of Wrigley
		Sept. 11		Lousson	Citizen	1952 native population
C-34	3305	Oct. 15	YK	Workman	CAGPL	Economical to supply gas
130	19737 19773-76	Mar. 16		Williams	CAGPL	Relocation of construction facilities
				Williams	CAGPL	Construction schedule, facilities between Fort Good Hope and Wrigley; change in wharf and stockpile sites; decision not to upgrade airstrip; granular material required for refinements between Fort Good Hope and Wrigley
147	22533-37	Apr. 28		Pellissey	NWT IB/MA	Hunting and trapping experience around Wrigley
148	22704 22722-23	Apr. 29		Asch	NWT IB/MA	Since 1969, four new sets of teachers, causing confusion for the children
				Asch		Comparing bush resource incomes of Wrigley to those of Fort Simpson
160	24758-64	July 8		Asch		Low rental housing; movement of community for new site across the river; two groups in the community
162	25060	July 13		Trusty	CAGPL	Right-of-way nearby but no facilities to be located close to community

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XV- XXIII	1606 to 2762	Mar. 11 Mar. 21	YK	Berger		Formal Hearings
XXIV- XXXV	2763 to 4654	Apr. 7 Apr. 23		Berger		Formal Hearings
XXXVI- 45	4655 to 5994	May 12 May 24		Berger		Formal Hearings
44	5774-75	May 23		Bell	NWT IB/MA	Gas supply to communities near line
46 to 50	5995 to 6746	June to June 6		Berger		Formal Hearings
C-11	71	Apr. 3	AK	Greenland	Citizen	Discovery of gold
C-8	692-93	June 25	FF	D. Shay	Citizen	Experiences of witness
53	7132	Aug. 13	WH	Trusty	CAGPL	Population rise in anticipation of pipeline
61-A	8706	Sept. 15	YK	Mirosh	Foothills	Yellowknife/Pine Point community gas service lateral
62	8923-26	Sept. 16		Mirosh		Foothills control centre and communication centre for N.W.T. in Yellowknife

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65	9534	Sept. 19	YK	Berger		Foothills community supply line not chilled
	9506			Claridge Davison	Foothills Foothills	Geotechnical problems of unchilled supply lateral
68	10041	Sept. 24		Hushion	Foothills	Centre for Foothills operations and gas control centre
	10051			Hushion		Reason for basing headquarters in Yellowknife
	10064-67			Hushion		Staff requirements for administrative headquarters; housing; employment of locals
	10077			Hushion		Hiring of locals for work in division office
77	10121-26 11475	Oct. 22		Hushion Roed	CARC	Reasons for choice as centre Feeder lines from an edge of the shield line to Yellowknife
86	12821-22 12897 12987-88	Nov. 13		Drew Drew Bayly Lawrence	Foothills COPE/ITC Foothills	Terrain sensitivity, pipe lateral route Gravel availability, lateral route Sewage contamination, Back Bay
87	13060 13074-75	Nov. 14		Drew Bayly Reeves	Foothills	Lateral line, distance from highway Archaeological artifacts to museum
99	15121-35	Dec. 9		Hayden Finney Whitney	Foothills Foothills Foothills	Aquatic systems, birds, mammals, studies along lateral route
100	15208	Dec. 10		Whitney		Woodland caribou studies between YK and Redknife Hills
C-27	2760-61	Sept. 10	FS	Erion	Citizen	Cheaper to subsidize than run spur line in
C-30	2890-91 2895-97 2916-17 2993 2995	Oct. 6	PP	Osing Mirosh Ellwood Carter Sayine M. Beaulieu	Citizen Foothills Foothills CAGPL Citizen Citizen	High school education for Pine Point students Feeder lateral, maintenance Permanent maintenance, operations positions Water pollution from Pine Point mines Water pollution from gold, ore mines
C-31	3001 3020-21	Oct. 7	FR	Mirosh Menez	Foothills Citizen	Pipeline maintenance personnel Gold rush, sawmill industry development
C-34	3304 3348	Oct. 15 Oct. 16	YK	Workman Findlay	CAGPL Citizen	Not economical to supply gas to; money used to subsidize fuel or cost of living Effects of development re: population increase, self dependency
C-35	3390-93 3409 3412 3435	Oct. 22	LI	Littledale Wood Berger Naylor	Foothills Citizen Citizen Citizen	Main operation centre, feeder laterals Similarities between native, white northerners Control of outside workers entering communities Lunches for children at school
116	17657	Jan. 24	IN	Rempel	GPC-D-I	Back-up equipment available for Delta Environmental Protection Unit
145	22207-08	Apr. 26	YK	Brownstone	NWT IB/MA	Native community not getting benefits from the City of Yellowknife
C-77	8426	Aug. 26	DET	A. Potfighter	Citizen	Development and growth
177	27522-30 27557-50	Aug. 25	YK	Schaurte Galloway	NWT/AM NWT/AM	Revenue and expenditures; difficulty of law enforcement; by-laws Full-time fire chief, no funding by territorial government for equipment, inspection by municipality
178	27714-23	Aug. 26		Runge	MVPI	Medium growth rate, housing need, owner occupied homes, social assistance
179	27779-82	Aug. 27		Runge		Projected and present total and social housing needs
181	28206	Sept. 8		Breckenridge	MVPI	Small tax base, will not have money for increased demand on municipal services
182	28274-76	Sept. 9		McCombs	MHA/NWT	Comparison with Fairbanks, Alaska, similarities and differences
190	29700-05	Sept. 23		Henne	NWT/AM	Supports development; impact of acquiring Territorial government seat, population increase, demand for increased transportation services, public health, recreation, housing

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XV	1648-51	Mar. 11	YK	Dau	CAGPL	Williams Brothers Canada Limited Arctic Gas Study Group Northern Engineering Services Company Limited; Pemcan Services; Techman Ltd.; Shawinigan Engineering Co. Ltd., Montreal Engineering Co. Ltd.; R.M. Hardy & Associates Ltd. Loram Group
	1706			Dau		Environment Protection Board
XVI	1749-59	Mar. 12		Gibbs	Foothills	Williams Brothers Canada; Resource Science Corporation, Tulsa; Swan Wooster Engineering, Vancouver; Mannix; etc.
	1817-18			Anthony	CARC	Northern Engineering Services
XVII	1898-1900	Mar. 13		Bell	NWT IB/MA	Northern Engineering Services
	1904-08			Bell		Northern Engineering Services; relationship to CAGPL
	1910			Dau		Environment Protection Board; Gemini North
	1922			Dau		Gemini North
XVIII	2075-76	Mar. 14		Dau		Williams Brothers Canada Ltd.
XIXA	2235-36	Mar. 17		Clark	CAGPL	R.M. Hardy & Associates
	2278			Clark		Northern Engineering Services; Ripley, Klohn, Leonoff; Mackenzie Valley Pipeline Research Ltd.; T. Blench & Associates
	2290			Clark		Mackenzie Valley Pipeline Research Ltd.
XXIV	2870-71	Apr. 7		Clark		Environmental consultants
XXIVA	2878-79			Clark		Northern Engineering Services
XXV	3028	Apr. 8		Cooper	CAGPL	Colorado University - scour prediction model
XXVI	3188	Apr. 9		Slusarchuk	CAGPL	Research and engineering laboratories
	3206			Slusarchuk		Polar Region Research Engineering Laboratory
	3276			Scott	MVPI	Northern Engineering Services
XXVII	3285-86	Apr. 10		Scott	MVPI	NES Co. Ltd. NW Project, Mackenzie Valley Oil Pipeline
	3312-13			Morgenstern	CAGPL	Mackenzie Valley Oil Pipeline, National Research Council
	3376			Scott		Geothermal programs, Battell-Brooker, E.R.P.
	3394-97			Slusarchuk	CAGPL	N.E.S., Northwest Project, National Research Council
	3414-15			Slusarchuk		Battell & Brooker, E.R.P.
	3434			Scott		N.E.S.
	3476			Scott		National Research Council
XXIX	3566	Apr. 14		Williams	CAGPL	R.M. Hardy & Associates; Williams Brookers Canada
	3650			Purcell	CAGPL	NES - design
	3681-83			Purcell		Metallurgical Sub-Committee
	3688-94			Holmberg	CAGPL	Battelle Memorial Institute - fracture speeds
	3697-98			Purcell		Battelle - fractures, description of organization U. of Alberta - metal strain due to bending
XXX	3716-19	Apr. 15		Price	CAGPL	University of California
	3737			Purcell		N.E.S.
	3758-60			Purcell		Battelle Memorial Institute, N.E.S.
	3809-10			Purcell		Battelle Memorial Institute, N.E.S.
XXXI	3923-24	Apr. 16		Holmberg		Battelle Memorial Institute
	3949-51			Koskimaki	CAGPL	Alberta, Dept. of Environment, Dept. of Health
XXXII	4144-46	Apr. 18		Koskimaki		Alberta: Dept. Health, Dept. Environment computer program
	4153-54			Holmberg	CAGPL	Metallurgical Committee; C.R.C. Welding Company
	4161-63			Purcell	CAGPL	Williams Brothers Canada Ltd. - optimization studies
XXXIII	4231	Apr. 21		Dau	CAGPL	NES, construction plan for CAGPL
	4252			Dau		CP-CN retained by NES, logistics
	4345-46			Williams		Banister Construction, Hemiset Brothers, Barber-Greene

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XXXIV	4440-45	Apr. 22	YK	Dau	CAGPL	Gemini North
	4454-55			Williams	CAGPL	LGL Ltd., consultants with respect to birds
	4465			Dau		NES Co. Ltd.
	4521			O'Rourke	CAGPL	NTCL, barges and tugs; Incan
XXXVII	4711	May 13		Williams		Pentzien Incorporated; major river crossings
	4724		Bell	NWT IB/MA	N.E.S.	
	4781		Dau		Associated Engineering	
XXXVIII	4928-33	May 14		Lucas	CARC	N.E.S., recommendations
	4937		Lucas		Bechtel Corporation	
XXXIX	5042	May 15		Dau		Northern Transportation - wharves and stockpile sites
41	5312-13	May 20		Hurd	CAGPL	Battelle Institute
	5331-32		Lucas		Arctic Environmental Council	
42	5416	May 21		Fielder	CAGPL	National Research Council, Canadian Aeronautics and Space Institute
	5491-92		Scott	MVPI	N.E.S., consultants	
	5533-34		Horte	CAGPL	Northwest Project Study Group, Gas Arctic Systems, Alaskan Arctic Gas Study	
	5584-91		May 22	Horte		Northwest Project Study Group, Gas Arctic Systems N.E.S.
43	5593-5736			Horte		CAGSL, Northwest Project Study Group, Alaskan Arctic Gas Study
	5636-38			Gibbs	Foothills	Alberta Gas Trunk Line Co. Ltd.
	5648-50			Horte		Exxon Corporation, SOHIO
	5693-94			Horte		Alaskan Arctic Gas
	5730-36	May 23		Templeton	EPB	N.E.S., Northcan Engineering and Management Ltd.
	5740-48		Bell		Northwest Lands and Forests Services	
44	5819-21			Horte		Members of consortium with operations north of 60
	5826-28			Horte		Companies involved in CAGPL consortium
	5842-46			Horte	CAGPL	Northwest Project Study Group, Gemini North, N.E.S.
	5881-82	May 24		Genest	CAGPL	N.E.S.
	5957-60		Horte		CAGPL, companies experienced in oil and gas production	
	5979-84		Scott	MVPI	N.E.S., Gemini North, Van Ginkel and Associates	
46	6034	June 2		Templeton	EPB	EPB evolution
	6039		Templeton		Templeton Engineering Co., research work	
	6046		Templeton		NRC academic research	
	6061-62		Templeton		Northwest Project Study Group and Gas Arctic Systems	
	6073		Craik	EPB	CWS - data on raptor nesting sites	
	6084-87		Craik		Input for EPB workshop 1972	
	6090		Craik		Interdisciplinary Systems Ltd. - administration	
47	6235	June 3		Templeton		Panarctic Oils Ltd. - government equity position
	6282-83		Templeton		Northern Advisory Committee - engineering history	
	6300		Adam	EPB	Templeton Engineering Co.	
48	6352	June 4		Bliss	EPB	Northern Land Use Planning Group
	6377		Templeton		Canadian Standards Association	
	6426-27		Templeton		Canadian Standards Association	
49	6510-22	June 5		Horte		Northcan Engineering, also NES - recommendations
	6537-38		Horte		NES - environmental input	
	6560-61		Horte		NES - influence of highway on pipeline route	
	6571		Horte		East and west side of river considered as route	
	6583		Horte		NES buried, chilled pipeline concept	
50	6641	June 6		Horte		Mackenzie Valley Oil Study Group
	6652-62		Horte		NES, re: contractors	
	6704		Horte		Northcan Engineering and Management Ltd.	
	6710-26		Horte		NES design engineers, Hardy and Associates	
	6735-42		Horte		Northcan contractors (Bannister)	

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C-13	1245-46	July 10	FMcP	J.Martin	Citizen	Recommendations from native people of Fort McPherson to Gemini North
C-14	1288	July 11	OC	P.Lord	Citizen	Renewable Resources
C-15	1400-01	July 12		Berger Rowe	CAGPL	Renewable Resources
56	7812-19 7898-7907	Aug.18	YK	Horte Blair	CAGPL Foothills	CAGSL, N.E.S., E.P.B. Foothills - CNR. AGTL, EPB, unnamed engineering, financial and legal consultants & consortiums;also Columbia Gas Systems Service Corp, Northern Natural Gas Co.,Texas Eastern Transmission Corp., Pacific Lighting Gas Development Corp.
57	7948-60	Aug.19		Goldie Blair	CAGPL Foothills	Foothills - Northwest Project Study Group, AGTL Westcoast,Mountain Pacific Group, El Paso, Pacific Lighting, Bechtel Corp.,Southern California Edison Trans Canada Pipe Lines, CNR.,Columbia Gas, Northern National,Metropolitan, Alberta National Gas Canadian Developments Organization, Union Gas, Consumers Gas, Canadian Pacific Investments(PR), Pembina Pipelines, Northern & Central Gas Co.
58	8181-2 8219-20 8274-77	Aug.20		Blair Blair Blair		Foothills - Gas Arctic Systems Study Group,Arctic Gas Study Group, Visit to Band councils and communities Foothills use of CAGPL studies, AGTL research Engineers Nor.Engineering Services,CAGPL research consultants
59	8347-8 8410 8462-3	Aug.21		Gibbs (Panel 3 Panel 3 Marshall (Panel 3	Foothills CAGPL	Klohn Leonoff consultants, Lombard North, AGTL, Sproule Associates Lombard North Unies re:Foothills research of environmental areas
60	8489-8520 8571-72 8582 8589	Aug 22		Scott Fawcett Fawcett Bouckhout Hollingworth Fawcett Dau	MVPI Foothills Foothills Foothills	Unies Limited, Western Research & Development, Lifeways, Klohn-Leonoff, Lombard North Klohn-Leonoff Lombard North J.C.Sroule and Associates
52	6901 6902 -07 6978 6990-95 7024-34 7024-34	Aug.12	WH	Dau Dau Banfield Banfield Banfield	CAGPL CAGPL	Mackenzie Valley Pipeline Research Ltd. Beaufort Delta Oil Project Ltd. Northern Engineering Services Aquatic Environments Ltd. Northwest Project Group Gas Arctic
53	7077-78	Aug.13		Williams Hemstock	CAGPL CAGPL	Mountain Pacific pipeline study group
53A	7323	Aug.13		Thompson	CARC	Canadian Wildlife Federation
55	7630	Aug.15		Morlan	CARC	National Museum of Man; Northern Yukon Research Program supported by Canada Council and University of Toronto; Yukon Refugium Project sponsored by National Museum of Man and Geological Survey of Canada
C-19	1861-70	Aug.6	FGH	John Louison	Citizen	Northern Engineering Service - land use application at Ft. Good Hope; Klohn Leonoff-Consultants for Foothills-land use application Fort Good Hope
C-22	2239-40	Aug.11	WH	D. Lloyd	Citizen	F. F. Slaney Environmental Consultants
C-23	2321 2351 2362 2384	Aug.14		Berger C. Taylor A. Cuvret B. Cooper	Citizen Citizen Citizen	The Beaufort Delta Oil Project Ltd. Yukon Conservation Society The People's Land Committee Club of Rome
61	8680	Sept.15	YK	Hensch	Foothills	Monogram 10, prepared by Institute of Gas Technology; roughness of plastic lined pipe
62	8767-70 8772	Sept.16		Mirosh Mirosh	Foothills	Foothills consultants; G. W. Brooker and Associates; Unies Ltd.; Brooker firm & Kingston Royal Military College National Research Council, CAGSL have worked on frost anchors; frozen and unfrozen soil

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62	8778-79	Sept. 16	YK	Walker Mirosh	Foothills	Engineering hydrological and hydraulic studies; Canuck Engineering; Unies; Klohn Leonoff, Sproule
	8820			Walker		Unies, Klohn Leonoff, river crossing studies
	8847-48			Mirosh		Lombard North; Klohn Leonoff
63	9087	Sept.17		Mirosh		Associated Engineering Services Ltd. - disposal of treated effluent in Swampland
	9089			Mirosh		Lombard North - environmental consultants to Foothills
	9091			Scott	M VPI	Associated Engineering - working for Arctic Gas & Foothills?
	9157-71	Sept.17		Hushion	Foothills	Battelle - design criteria for arresting
	9161			Hushion		U.S. Steel - studies on crack arrestors
64	9207-12	Sept.18		Wetterberg	Foothills	Battelle studies on fracture control
	9272			Mirosh		Gas Arctic Systems
	9273			Mirosh		Klohn Leonoff - geotechnical advice to Foothills
	9273			Mirosh		EBA Engineering Consultants
	9274			Mirosh		Unies Limited - river floods & scour - consultants to Foothills
	9317			Hwang	Foothills	Brooker & Associates EBA Engineering Consultants Klohn Leonoff, Unies - all consultants to Foothills
	9410			Spafford	Foothills	Environment Protection Board
	9422-44			Claridge	Foothills	Mackenzie Valley Pipeline Research Ltd. at Inuvik
67	9939	Sept.23		Mirosh	Foothills	Lombard North re: clearing operations
	9969-70					Associated Engineering Services Ltd. Studies of sewage and incineration
68	10147	Sept.24		Dau	CAGPL	Curran and Associates
69	10372-75	Sept.25		Williams	MVPI	Norwegian Geotechnical Institute; Scott Polar Institute
70	10527	Sept.26		Owen	MVPI	Westcoast commissioned study completed by Schultz re: environmental survey of Pointed Mountain
72	10722-29	Oct.15		Longlitz	MVPI	Arctic Gas tests in Inuvik re: frost penetration
	10745-46			Berger		Scott Polar Institute
	10786-90			Adam	EPB	Dr. Williams quotes from laboratory results; N. E.S. findings re: frost heave; Templeton Engineering
73	10827	Oct.16		Morgenstern	CAGPL	Views held by Northern Engineering Services
	10873			Harlan	CAGPL	Northern Engineering
	10895			Slusarchuk	CAGPL	National Research Council of Canada; Cornell University; Cold Regions Research and Engineering laboratory in Hanover New Hampshire; McGill University; Queens University; N.E.S.; University of Alberta; Carleton University
	10931-37			Slusarchuk Genest	CAGPL CAGPL	N.E.S., Cold Regions Research
	10940-47			Morgenstern Clark	CAGPL	N.E.S.
	10954			Morgenstern		Mackenzie Valley Research; soil stability; Inuvik test loop
	10962			Morgenstern		N.E.S. re: soil stability testing
74	11013	Oct.17		Williams	CAGPL	Gulf; frost penetration; airstrips and snow roads; snow pads
75	11026	Oct.20		Parker	CARC	Arctic Gas study re: snow road test at Inuvik Northern Engineering Services
	11032			Parker	CARC	Northern Engineering Services re: definitions of snow roads, Alaska haul road
	11049			Parker		Northern Forest Research Laboratory; northern ecosystems

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5	11086	Oct. 20	YK	Parker	CARC	University of Alaska re: revegetation work, Northern Engineering services; Inuvik and Prudhoe Bay test plots; reseeded program of abandoned rig sites by Arctic Gas
	11131			Weedon	CARC	Sierra Club, Alaskan Conservation Society, Wilderness Society, principal opponents of Alyeska; reports
6	11171-75	Oct.21		Weedon Parker		Wildlife Management Institute at the University of Alaska; Alaskan Department of Fish and Games, Wildlife Management Co-operative Institute
	11336			Marshall	CAGPL	Northern Engineering, Arctic Gas programs re: recommendations made by Dr. Hughes; recalling of witnesses
77	11418	Oct.22		Rutter	CARC	Geological Survey of Canada; University of British Columbia; Department of Agriculture in Winnipeg re: terrain analysis, mapping
	11444			Anthony	CARC	Northern Assessment Group
	11466			Roed	CARC	Northern Assessment Group
78	11492-93	Oct.23		Roed		North Sea, British Petroleum 32 inch pipe; Polar Gas development re: laying of pipe from the ice during winter season
	11566			Roed		Northern Pipeline Group
	11581			Roed		Polar Gas re: underwater pipe laying techniques; winter operations
	11585			Roed		Northern Assessment Group
79	11680-81	Nov. 3		Hemstock	CAGPL	Producers in Mackenzie Delta findings - no sulphur in Delta gas
	11712-14			Dabbs	CAGPL	ARCO Chemical of Fairbanks - plans for revegetation of Sans Sault test site
	11778-79			Dabbs		Audell Columbus labs - ARCO - studies at test sites
80	11875	Nov. 4		Anthony		Mackenzie Valley Research plans for oil pipeline
81	12049	Nov. 5		Minning	CAGPL	Dave Wooley (Renewable Resources) participant in gravel inventory
82	12146-47	Nov. 6		Dabbs		Disturbance studies on birds carried out by CAGPL
85A	12795	Nov. 12		Scott	MVPI	Western Research, compressor emissions
90	13644	Nov. 19		Hemstock		Beaufort Delta Group, research on oil pipeline
94	14236-37	Dec. 2		Hemstock		N.E.S: coordination of governmental and engineering research teams
	14331-35			Banfield	CAGPL	Schultz International Consulting Company - Dempster Highway
95	14383-409	Dec. 3		Environmental Panel	CAGPL	William Brothers (Canada) Ltd; Northern Engineering Service; Arctic Gas research, environmental assessment approaches; Environment Protection Board
	14464-71			Environmental Panel		Northern Engineering Service; Renewable Resources; CAGSL; environmental assessment
	14503			Banfield	CAGPL	University of British Columbia - systems analysis approach to environmental assessment
96	14537	Dec. 4		Jakimchuk	CAGPL	Williams Brothers Canada Ltd., prepared for Williams Brothers by Renewable Resources
97	14713-15	Dec.5		Jakimchuk		Renewable Resources, alleged animal harassment
	14806			Templeton	EPB	NES, recommendations from McCart
99	15034-49	Dec. 9		Hemstock	CAGPL	NES environmental recommendations matching engineering procedures; tradeoffs, interchange; NES's role in process; reviewing contract agreements
	15105-32			Environmental Panel	Foothills	Foothills environmental program, Lombard North Group Ltd.
	15182			Whitney	Foothills	Renewable Resources, variability in biological phenomena
100	15227-46	Dec. 10		Whitney		Lombard North, data objectifying techniques
	15272-83			Marshall Bouckhout	CAGPL Foothills	Lombard North, impact assessment, time schedule

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100	15303-10		Dec. 10	YK	Hayden	Foothills	Aquatic Environments, experiments, effects of methanol on fish eggs and fry
	15314-18				Bouckhout Hayden		Lombard North, protection measures for commercial, domestic fisheries; recommendation re Hodgson Creek
	15368-69				Whitney		Lombard North work, impact on wood bison and woodland caribou by Yellowknife/Pine Point lateral; groundwater draining
101	15390-402		Dec. 11		Whitney Hayden Kondla Finney	Foothills Foothills Foothills Foothills	Deficiencies in research; future research needs; proposed Environmental Study Committee; deficiencies in CAGPL application; winter siltation study; permanent roads in fens and swamps; rare vegetation; biophysical land classification; raptor nesting; biological variability; impact of barging on waterfowl; native utilization
	15409-27				Peterson	CARC	DOE research; Environmental-Social Program: composition, terms of reference, research programs, recommendations, 1972 Pipeline Guidelines
	15491-501				Marshall	CAGPL	NES, area of fenlands along route
102	15574		Dec. 12		Peterson		University of Colorado, study by Kreith, environmental assessment of projects in U.S.
105	16036		Dec. 17		Marshall		Aquatic Environments re: water availability studies on the North Slope
	16140				Lent	CARC	Renewable Resources re: caribou wintering areas
106	16194		Dec. 18		Calef	CARC	Renewable Resources re: Canadian Wildlife Service's estimate of oil and gas reserves
	16210				Calef		Renewable Resources Consulting Services re: effect of noise on caribou
	16222				Calef		Renewable Resources Consulting Company re: caribou calf mortality
	16241-46				Lent		Renewable Resources re: muskoxen movement and distribution, calf production
107	16284-86		Jan. 12		Templeton	EPB	Creation of the EPB in 1970; employment for ACTL Gas Arctic and Northwest Project Group; recommendation re: route selections, environmental and economic issues; position of EPB with regards to their report and code
	16353				Wilimovsky	EPB	University of British Columbia-environmental assessment
	16381-83				Berger Wilimovsky		Arctic Institute of North America; Arctic Environmental Council
108	16492-95		Jan. 13		EPB Panel		Templeton Engineering Company, Interdisciplinary Systems future involvement with CAGPL or Foothills and the Federal Government; members of EPB Panel future involvement with Foothills, Arctic Gas
	16563				Wilimovsky		Arctic Land Use Planning Unit
109	16611		Jan. 14		Marshall	CAGPL	Employee training; report by Ursa
	16718-25				Templeton	EPB	EPB - organization; consultant for AGTL; Gas Arctic, Northwest Project Study Group
110	16757		Jan. 15		Bergerud	CARC	Renewable Resources Consulting devices should have quantified insects on the interior and coastal routes
	16761				Bergerud		Renewable Resources Consulting Services; aerial disturbance studies
111	16907		Jan. 16		Carter	CAGPL	Data by Renewable Resources, caribou movements Porcupine herd
	16928				Carter		Renewable Resources reports, western movements of Porcupine herd
	16969				Davies	MVPI	Association of Consulting Engineers of Canada, speech by R. Logie
C-26	2696		Sept. 9	FS	Lamothe	Citizen	Research Centre, Fort Simpson re adult education, co-curricular activities, special child care services, etc.
C-30	2966-67		Oct. 6	PP	Berger		C.N.R. study - gas transport by rail

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C-34	3271-76	Oct. 15	YK	Duesterhus Russell	Citizen Citizen	Westcoast Transmission re: sale of northern gas to United States; Bannister Pipeline Company re: Trans Canada Pipeline; Majestic Pipeline Company
	3342	Oct. 16		McRae	Citizen	Massey-Ferguson, Sun Life, Inco, Cominco, Falconbridge, Alcan re: Canadian investment in foreign countries; Noranda, Canadian Copper Refineries, Canadian Electric zinc re: deaths at plants
112	17030	Jan. 20	IN	Horsfield Berger	GPC-D	Sproule and Associates, proved and probable gas reserves, Mackenzie Basin; oil potential estimate of Mackenzie Basin for Canadian Society of Petroleum Geologists by McCrossen and Porter
114	17302	Jan. 22		Mainland	GPC-D-I	Fleur, sewage systems, Taglu gas field
	17335			Mainland		Arctic Petroleum Operators Association, Delta borrow material resources survey
115	17482-84	Jan. 23		Stewart	GPC-D-I	Estimated Delta gas reserves by JLJ Sproule Associates
	17565			Guyn	GPC-D-S	Slaney, ice fog studies
116	17645-46	Jan. 24		Rempel	GPC-D-I	Environmental studies by F.F.Slaney and company
117	17790	Jan. 26		Rempel		Slaney and Company, studies of gas plant sound emissions
	17793			Goudge	MVPI	L.G.L. Limited, study of snow geese
130	19768	Mar. 16	YK	Minning	CAGPL	Northern Engineering Services says Yaya esker primary borrow source on east side of Delta
	19781-82			Marshall Clark	CAGPL CAGPL	Northern Engineering Services
	19791-94			Williams	CAGPL	Excavation study done by Northcan; studies by Northern Engineering Services to determine feasibility of cross-delta route
	19804			Williams		Northern Engineering recommendation, two 36 inch lines instead of one 48 inch in river crossings.
131	19867-68	Mar. 17		Williams		J.E. Rymes, ditcher tooth research
	19996-99			Williams Berger		Brown & Co.; pipelines from deep water wells Beaufort Sea
132	20026	Mar. 18		Williams		N.E.S. hasn't examined Dr. Gunn's route across Delta
	20057-60			Goudge		Kenting study, profile studies of Shallow Bay bed
	20129-33			Goudge		Ripley Klohn Leonoff, borrow materials studies, cross-Delta route
134	20271	Mar. 24		Bayly Webb	COPE/ITC CAGPL	Letter to F.F. Slaney re impact on whales of North Sea drilling
140	21465	Apr. 8		Cournoyea	COPE/ITC	Failure of natives to comprehend pipeline concept presentation by Gemini North
142	21533	Apr. 13		Virtue	NORTRAN	Northwest Project Study Group; Boreal Institute for Northern Studies
	21598-601			Bell Virtue	NWT IB/MA	Canadian Government Delegation to the International Labour Conference on Training of Petroleum Workers in Underdeveloped Countries
144	22055-56	Apr. 15		Bean	NWT IB/MA	Gemini North, Van Ginkel Associates
147	22375	Apr. 28		McCullum	NWT IB/MA	Apex Consultants, Winlaw, B.C.
148	22566-57	Apr. 29		Nahanni	NWT IB/MA	Gemini North
	22563			Rushforth	NWT IB/MA	Gemini North
	22669-70			Rushforth		Gemini North
	22674-75			Asch	NWT IB/MA	Studies of the Boreal Institute of the University of Alberta, Van Ginkel Associates, Gemini North
	22702			Asch		Gemini North, suggesting the nine major problems facing the north today
	22726-31			Asch		Arguments against Van Ginkel's report

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149	22767 22840	May 3	YK	Ritter Simpson	NWT IB/MA NWT IB/MA	Canadian Permit Committee on Geographical Names Science policy research unit, University of Sussex, England
150	22883-86 22904	May 4		Hills Hills		Hiring of consultants by mining companies, Third World Countries Smithsonian Institute, studies of Samoyeds, Chukchi, U.S.S.R.
151	23047 23073 23077-81	May 5		Irving Irving Irving	CYI CYI CYI	Northern Yukon Research Program All-Union Symposium, a correlation of the Ancient Cultures of the Pacific Coast, Academy of Sciences, U.S.S.R., Novosibirsk University of Alaska, Alaska Methodist University, salvage program, Alyeska pipeline archaeological sites
153	23458-62	May 7		Sharp	CYI	Economic staff group. "Regional Impact of a Northern Gas Pipeline"
154	23620	June 29		Watkins	NWT IB/MA	Science Council of Canada, discouragement of new townsites
155	23678-81	June 30		Watkins		Gemini North report, figures on hunters, trappers, fishermen
C-49	4800-01	May 10	VAN	Gallon	Citizen	Delta Environmental Protection Unit
C-51	5102-04 5148 5172 5192-93 5197-98	May 12		J. Stokes A. Hemstock M. Sadler V. Bellecourt L. Berry	Citizen CAGPL Citizen Citizen Citizen	Stockholm Conference on the Environment, June 1972 Environmental Social Committee, DIAND Task Force on Northern Oil Development United Nations Conference on Trade and Development World Conference of Indigenous Peoples U.N. Conference on Environment; U.N. Conference on Human Settlements
C-52	5244 5392	May 13		Prior C. Osborne	Citizen Citizen	Federal Office of Energy and Conservation Bedford Institute of Nova Scotia
C-53	5538	May 14	CAL	Wolfleg	Citizen	Arctic Institute of North America, located in Calgary
C-54	5611 5641-42 5684-85 5692	May 17	EDM	Shirt Swift Somerville Leeson	Citizen Citizen Citizen Citizen	Organization of alcoholism programs Energy Resources Conservation Board of Alberta National Northern Development Conference 12th International Botanical Conference, resolution re Pan-Arctic vascular plant flora
C-55	5871	May 18		L. Mulhall	Citizen	Boreal Institute
C-59	6394 6481 6513-17	May 26	TOR	M. Hummel D. MacKay C. Godfrey	Citizen Citizen Citizen	Science Council of Canada, Office of Energy Conservation, reduction of energy consumption Royal Society of Canada Science Council of Canada, advocacy of a conservator society
C-60	6671 6698-702 6818-19	May 27		F. Welsh J. Hart M. Pick	Citizen Citizen Citizen	Alberta Energy Resources Conservation Board, additions to gas supply Computer project, University of Western Ontario; cross-cultural centre U.S. Department of Agriculture Research Station, Palmer, Alaska
C-61	6831-33 6861	May 28		H. Button Pimlott	Citizen CARC	Ontario Energy Corporation, feasibility Studies, Polar Gas pipeline CARC Conference, "Gas from the Mackenzie Delta, Now or Later"
C-62	6933	May 31	MTL	Ponting	Citizen	Grant for study from Donner Canadian Foundation, University of Calgary
C-65	7439-40 7449	June 4	OTT	A. Fisher K. Reitan	Citizen Citizen	Ferrous Industry Energy Research Association Gas Arctic Systems Study Group, Transportation Corridor Study
158	24145-46 24158-66 24237-38	July 6	YK	Hobart Hobart Hobart	CAGPL	Gemini North, field surveys Gemini North report Yupiktak Bista, study of conservation, subsistence among the Yupik

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	24272-81			Trusty		Gemini North, study of current value of alternate fuels in communities
	24292-96			Trusty		Gemini North, data collection, involvement of northerners
159-A	24553	July 7		Trusty		Gemini North report, figures on unemployment insurance, welfare recipients, NWT
	24574-77			Trusty		Gemini North report
	24597-608			Trusty		Van Ginkel Associates
160	24624	July 8		Asch	NWT IB/MA	Examination of Gemini North report
161	24784-85	July 12		Trusty		Gemini North, 1972 survey, level of employment
162	24987-88	July 13		Trusty		Stanley and Associates, study on Inuvik; Van Ginkle report, growth in communities, building that would be required
163	25154-55	July 14		Hobart	CAGPL	Gemini North report, conviction of offenders
	25168-92			Trusty		Van Ginkel report, atlas, physical profiles of the communities
	25256-57			Hobart		Gemini North, underestimation of value of traditional foods
164	25351-62	July 15		Hobart		Gemini North report quotations, problems accompanying pipeline "boom"
	25424-28			Hobart		Van Ginkel report, recommendation that new employees take up residence in region
	25479-86			Trusty		Van Ginkel report, use of multiplier to estimate additional personnel
	25496-97			Trusty	CAGPL	Van Ginkel study
166	25820-21	July 20		Usher	COPE/ITC	Confusion re data of Gemini North report, income from native hunting
167	25876-77	July 21		Brody	COPE/ITC	Northern Science Research Group, support of research by Brody
168	26191-92	July 22		Brody		Former Northern Science Research Group, licences for research in communities
170	26393-94	Aug. 16		MacLeod	Foothills	Human Resources Planning Institute, Seattle, Washington, induced economic effects of the Trans-Alaska pipeline
171	26546-47	Aug. 17		MacLeod		Gemini North, population multiplier
174	27053-54	Aug. 20		Dalby	NWT/AM	Stanley and Associates' study of CAGPL's impact on energy costs in northern communities
	27106-07			Lainsbury	NWT/AM	Van Ginkel, direct and induced employment
189	29288	Sept. 22		Berger Hill	NWT/AM	University of Canada North
190	29488-91	Sept. 23		Ganske	NWT/AM	Suggestion that committee be formed to assign priorities for construction, equipment and supplies
198	31190-91	Oct. 14		Sterling	MVPI	Mining Industry Committees on Employment of Northern Residents; Petroleum Industry Committee on Employment of Northern Residents; Advisory Committee on Northern Development
198A	31436-37	Oct. 14		Schulz	MVPI	Formation of Screening and Selection Committee, representatives from union and Alyeska Pipeline Service Company; Joint Training and Evaluation Committee representatives from Alyeska and unions, responsibilities
199	31508-12	Oct. 15		Beakhust	COPE	Water Transport Committee, regulation of vessels on Mackenzie River
	31515-17			Beakhust		Land Use Advisory Committee dominated by DIAND; Delta Land Use Committee

COMPENSATION

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C-11	1045-6	July 8	FMcP	Elwood	Foothills	Damage to traplines by pipelines
C-13	1172	July 10		M.Snowshoe	Citizen	Oil companies, loss of jobs after completion of project; possible compensation
	1175-76			P.Thompson	Citizen	For crossing land of native people
	1251-51A			J.Simon	Citizen	For damage incurred by major projects
C-15	1439-40	July 12	OC	B.Allen	Citizen	Damage to fish from blasting
C-16	1486	July 13		M.Kassie	Citizen	Witness will press charges if land affected
	1607-8			B.Sharpe	Citizen	Government, Arctic Gas, hearing of increase in social costs
C-17	1683-84	July 16	FL	J.Savage	Citizen	Amoco paid for lost outboard motor
54	7532	Aug.14	WH	Parker	CARC	Securing right of way across private lands re Alaskan development of transportation corridors
C-20	2061-62	Aug. 7	FGH	A. Rabisca	Citizen	Southern farmers - money from companies for land use
76	11189	Oct. 21	YK	Weedon	CARC	Funds advanced to local communities in Alaska in order to cope with increased demands for social services, and infrastructure caused by pipeline construction
	11214-19			Parker Weedon	CARC	Alaska Native Claims Settlement: cash settlement and transfer of lands re: native lands, state lands
91	13901-12	Nov. 20		McCart Hemstock	CAGPL CAGPL	For domestic fisheries, Peel River
C-25	2496	Sept. 8	FS	Erion	NWT/CC	For northern resource use
C-33	3206-16	Oct. 9		Lisk Berger	Citizen	Land compensation re: traplines destroyed, oil spills, forest fires
C-38	3669	Feb. 15	IN	B.Kailik Mirosh	Citizen Foothills	Compensation to people affected by oil or gas pipeline failure
	3679-81			Mirosh Rowe Berger	CAGPL	Compensation for pipeline damage
C-39	3717	Feb. 18		Hill	Citizen	Provision for compensation of persons affected by pipeline
140	21327	Apr. 8	YK	Usher	COPE/ITC	Limited value of compensation provisions for Bankslanders
C-42	4057	Mar. 4	SACHS	A.Carpenter	Citizen	What compensation if oil spill destroys wildlife?
165	25519-21	July 19	YK	Ellwood	Foothills	Policy to cover accidental damage during construction phase, implementation
	25599			Reesor	NWT/AM	Claims for damages; loss of production from land; possible arbitration board
	25634-37			MacQuarrie Ellwood Berger	MHA/NWT	Family breakdown not compensated; stress factor; formation of arbitration Board
C-75	8323	Aug. 21	CL	D.Tobac	Citizen	Doubts giving money on trust of word
	8342-43			Blair	Foothills	Will accept judgement of band councils, Hunters and Trappers Association, pay within thirty days
	8345			Carter	CAGPL	No specific plans
C-76	8381-82	Aug. 25	DET	J. Martin	Citizen	Receive almost nothing for finding gold mines, cheat natives
C-77	8395	Aug. 26		J. Sangris	Citizen	Do not want money, only want land
188	29121	Sept. 21	YK	Searle	MVPI	For those affected by construction
200	31686-91	Nov.15		Genest	CAGPL	Responsibilities of development company, government

COMPRESSOR STATIONS

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XV	1659	Mar. 11	YK	Dau	CAGPL	Location; operating period; refrigerator units
	1731-34			Dau		PAAG Report, CAGPL Responses; relocation of stations
XVI	1803-06	Mar. 12		Dau Gibbs	Foothills	Construction scheduling of FUT sites
	1865			Dau Anthony	CARC	Amount of pipe above ground
XVII	1922-23	Mar. 13		Dau Bell	NWTIB/MA	Importance of socio-economic factors in location
XVIII	2034-35	Mar. 14		Dau Bayly Watson	COPE/ITC CAGPL	Location on Husky Channel; traditional use area
	2104-10			Scott Dau	MVPI	Spacing; location on cross delta and Fort Simpson route changes
	2116-20			Scott Dau		Noise, traffic; construction sites; Fort Simpson
XIX	2198-200 2202-03	Mar. 17		Williams	CAGPL	Sans Sault test site; chilling units
XIXA	2263-66	Mar. 17		Clark	CAGPL	Stability; permafrost; foundations; air space
XXIII	2677-78	Mar. 21		Hollingshead	CAGPL	Use of borrow material
XXIV	2786-88 2861-65	Apr. 7		Lane Clark Hardy	COPE/ITC CAGPL	Location Vibration - effect on permafrost and compressor station sites
XXV	2954 2961	Apr. 8		Clark Clark		Route change to improve location Geotechnical concerns for relocation
XXVI	3224	Apr. 9		Slusarchuk	CAGPL	Frost heave prevention, removal frost susceptible soil, use of gravel
XXVII	3316	Apr. 10		Williams		Elevated pipeline
XXIX	3647 3650 3667-68	Apr. 14		Purcell	CAGPL	Size, spacing and process of chilling Design - potential sites Chilling station to lower flowing gas temperature
XXX	3728 3749 3750 3799 3803 3868	Apr. 15		Purcell McMullen Purcell Purcell Purcell	CAGPL	Station design - chilled zone/transition zone/air-cooled zone Communications system Design Measurement heating, value of gas Pipe wall thickness Design, minimum unit cost transportation
XXXI	3887-88 3911-17 3927-29 3932-33 3942-48	Apr. 16		Purcell Purcell Koskimaki Koskimaki Koskimaki	CAGPL	Location Locations Exposed pipe, buried pipe, thickness, design features, security of pipe Noise levels Travaillant Lake, two chillers, noise levels, vibrations, emissions
XXXII	4025-34 4039-41 4064-69 4103-07 4111-15 4133-46 4163-65	Apr. 18		Purcell Koskimaki Koskimaki Purcell Koskimaki Koskimaki		Looping advisable before adding compression Unmanned; foundation size, flexibility of location Sound levels and measurement Location - changes to fit terrain, interrelationships Economic life depends on turbines used Sulphur emissions - detection & reduction Economics of extra silencing of stations
XXXIII	4234 4243-46 4327 4368-69	Apr. 21		Dau Dau Dau Dau	CAGPL	Installation, summer '78 M-03, 07, 11, 15, begin construction Large construction camps on sites of compressor stations Winter and summer construction

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XXXIV	4401	Apr.22	YK	Dau	CAGPL	Construction, gravel pads
	4418-19			Dau		Location construction camps on compressor station sites
	4426			Dau		Size of work crews
	4436			Dau		Spread camp A, near Old Crow
	4449			Williams	CAGPL	Construction spread camps
	4476			Veale	CYI	Aircraft landings
	4514			O'Rourke	CAGPL	Transportation of equipment, Edmonton-Hay River
XXXVII	4718	May 13		O'Rourke		1A-09, movement of pipe
	4742-43			Dau		Delta, campsite for construction, location
	4754-55			Dau		Location for off-shore route
	4777-78			Williams		Installation crew would have own camp
XXXIX	5050-51	May 15		Williams		Movement of camp 1st construction winter
40	5205-11	May 16		Hurd	CAGPL	Operation by remote control
	5223-27			Fielder	CAGPL	Eighteen in northern division
	5258-61			Hurd		Unscheduled major repairs
41	5281-82	May 20		Fielder		U.S.S.R. pipelines; not remote controlled
	5288-97			Hollingworth	Foothills	Equipment maintenance
	5334-37			Hurd		Start up manuals for each station
	5352			Fielder		Remedial equipment access to line breaks
42	5393-95	May 21		Bayly	COPE/ITC	Designed to run by remote control
	5403-04			Hurd		Fire fighting, routine checks
	5408-09			Fielder		Lang - Yuganskaya, U.S.S.R.
	5431-37			Scott	MVPI	Start up, air flights, noise levels
	5458-59			Scott		Altitudes, flights into stations
	5499-5500			Scott		Unmanned, security
	5556-69			Horte	CAGPL	Looping
45	5896-5900	May 24		Bayly	COPE/ITC	Big Eddy site, fishing spot for people of Aklavik
	5197			Horte	CAGPL	Added after looping
	5925			Berger		Added after looping
46	6143	June 2		Bliss	EPB	Emissions - sulphur content of gas
47	6172	June 3		McT-Cowan	EPB	Noise disturbance to birds
50	6645-50	June 6		Marshall	CAGPL	Manpower, fuels used, noise level, purging
	6699-6701			Horte	CAGPL	Location and movement, possible looping between stations
C-1	50-51	Apr. 2	AK	Ross	Citizen	Helicopter checking relay stations
C-13	1203-4	July 10		Workman	CAGPL	Location of CA-09, Fort McPherson area
59	8349-50	Aug. 21	YK	Gibbs	Foothills	Foothills studies, optimum spacing and location, Panel 3
	8399-840			Marshall		Foothills pipeline chilling, temperature, Panel 3
	8475-7			Bell	NWT IB/MA	Fort Good Hope, Fort Simpson, requests for relocation
60	8565-7	Aug. 22		Fawcett	Foothills	Site, specific locations have yet to be decided
51	6785-87	Aug. 11	WH	Hemstock	CAGPL	Number; pressure and throughput; operation schedule; number and spacing
	6797			Hemstock		Mainline route has low terrain which enables aircraft landing sites to be built, plans to build compressor stations alongside transportation facilities
	6832-36			Dau	CAGPL	Spacing, number on pipeline routes, alternate corridors
	6851			Dau		Prudhoe Bay supply line, number of compressor stations, gas flow; cost of construction
	6864-65			Dau		Operating costs, number of stations
52	6885	Aug. 12		Banfield	CAGPL	Looping requirements
	7053			Banfield		Environmental impact on migration routes
53	7067	Aug. 13		Hemstock		Area required
	7101-04			Banfield		Space between stations

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54	7414-15	Aug.14	WH	Geist	CARC	Dall Sheep would adapt to compressor station buildings quite well
	7484			Weedon	CARC	Compressor station in mountainous areas would require ancillary junctions re airfields, communication towers; Marsh Fork Valley
	7488			Weedon		Station along Marsh Fork (Interior route) Dall sheep range
	7505-08			Weedon		Off-shore route; facilities built on the shore of Beaufort Sea; inspection and maintenance affect polar bear denning sites; key bird habitat areas; block valves, number and location of stations and accompanying facilities
C-19	1855-56	Aug. 6	FGH	Rowe Ellwood	CAGPL Foothills	Location near Ft. Good Hope
C-20	2056	Aug. 7		M.Cutchilly	Citizen	Extent of clearing for sites
C-21	2086	Aug. 9	NW	Burrell	Foothills	Location in relation to Norman Wells
61	8627-51	Sept.15	YK	Panel 3	Foothills	Sizes of units, locations determined by studies; Excess compression horsepower; centrifugal compressor; pipeline start-up; scheduling; size, availability and manufacture of compressor units; transport to sites
	8666-90			Mirosh Hensch Lazerte	Foothills Foothills Foothills	Taglu Processing plant gas compressor; Excess capacity, Taglu booster compressor, Parsons Lake volumes
61-A	8704	Sept.15		Mirosh		Spacing of compressor stations; mainline block valves; intermediate block valves
	8706-08			Mirosh		Pipeline scraper traps and components at compressor stations, valve actuators for mainline block and side valves; reducers, scraper barrels, closer, kicker line, drip leg connections and vents
62	8813-16	Sept. 16		Mirosh	Foothills	Distance between compressor stations; optimal horsepower, compression; community opposition to compressor stations; movement of compressor stations to accommodate communities; studies and final design
	8906-10	Sept. 16		Scrimes	Foothills	Location of communication towers and repeater stations on compressor station sites
63	8891-93	Sept. 17		Mirosh		Communication towers at all stations will be located within the station site
	8966-9011			Panel 7	Foothills	Evidence in chief acreage, air transport, access differences from CAGPL stations; station design, layout, noise levels, emissions, sewage lagoons
	8970-9071			Panel 7 Gibbs	Foothills Foothills	Difference between CAGPL and Foothills re: number spacing, size, facilities; pads and communication towers; refrigeration; manpower to operate; layouts; sewage facilities; water sources, horsepower output; gas turbines, noise and noise control; emissions, start up operations; operation and maintenance; access re: aircraft, helicopter; construction of facilities; snow roads
	9026-32			Mirosh Lazerte	Foothills	Stress analysis; force exerted on pipe leaving station
	9044-49			Mirosh		Decision behind unmanned stations monitoring; maintenance and repairs; preventative maintenance; shutdown
	9082-91			Mirosh		Located on permafrost terrain
	9092-9113			Beer	Foothills	Noise levels and attenuation
	9054					Compressor pads - looping acreage requirements
64	9328-34	Sept. 18		Mirosh		Geotechnical assessment of compressor stations on permafrost; interdisciplinary studies of sites; relocation of proposed sites; movement of station away from Fort Good Hope
66	9669-9022			Mirosh		Borrow requirements for pad

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67	9877-78 9911-14 9967	Sept. 23	YK	Mirosh Mirosh Mirosh	Foothills	Flexibility of construction time frame Construction schedule Construction all-year once pad completed; drainage problems from pad
68	10044-46 10058-61 10083-84 10087-8 10115-18	Sept. 24		Hushion Hushion Scott Hushion Mirosh	Foothills MVPI Foothills	Airstrips at sites; acreage requirements of Foothills and CAGPL; gradual throughput increase by Foothills to compressors Location of equipment for maintenance and repairs; installation of chilling facilities 140 mile - Westcoast line in B.C. has only one potential compressor Total acreage required Dependence on helicopter access; access roads to stations; unattended metering stations; manning of stations; trips required to unmanned stations
75	11106-22	Oct. 20		Parker Weedon	CARC CARC	Impact of compressor station noise on caribou; operation and maintenance activities re: noise, interference with caribou; differing scientific opinions
76	11255-61	Oct. 21		Parker Weedon		Impact of compressor stations on caribou; increased stress
79	11679-81	Nov. 3		Harlan	CAGPL	Acreage requirements
80	11876	Nov. 4		Clark	CAGPL	Not repeated if looping occurs
81	11988-98 12009-12	Nov. 5		Hemstock Hemstock	CAGPL	Locations of compressor stations in light of en- vironmental factors Plans for abandonment
82	12171	Nov. 6		Minning	CAGPL	Interior route demands more borrow because of rock work and distance from compressors which some- times have to be built in the valley
83	12373-12406	Nov. 7		Environmental Panel	CAGPL	Thunder River compressor station; borrow site locations, borrow requirements, grades, stockpiling
84	12564-72 12595-12609	Nov. 8		Anthony Hemstock McCart Bayly Williams McCart	CARC CAGPL COPE/ITC CAGPL	Location near waterbodies CAGPL guidelines Komakuk Beach, water sources, requirements, crew size, fish impact
85	12682 12691	Nov. 12		Bayly Bayly Williams Hemstock		Station CA-05 near major river, methanol storage there Water storage; noise; electric power, supply
85A	12790-92	Nov. 12		Scott Hemstock	MVPI	Hydro-carbon liquids as fuel; exhaust emissions
86	12874-79 12954-91	Nov. 13		Lawrence Lawrence	Foothills	Water supply, sewage disposal Water sources, requirements, studies; sewage disposal
87	13171	Nov. 14		Marshall Bouckhout	CAGPL Foothills	Borrow materials required
88	13244 13294	Nov. 17		Lawrence Taylor	Foothills Foothills	Sewage disposal, treatment capacity Aesthetic concerns, two locations
89	13423 13428 13482 13507	Nov. 18		Gunn Gunn Jakimchuk Hemstock	CAGPL	Goose disturbance, compressor noise, studies Bird disturbance radius, noise levels; CA-03, 05, 06 Effects on caribou Birds disturbance from maintenance overflights
90	13624	Nov. 19		Dabbs	CAGPL	As stockpile sites for revegetation seed, fer- tilizer
91	13873-81	Nov. 20		Dau	CAGPL	Compression required for gas flow
93	14106-10 14119-24	Dec. 1		Gunn Gunn		Stations CA-09, M-9, M-11 re: location of stations and peregrine falcon nests Servicing of compressor stations, frequency of flights; aircraft type; staging periods of snow geese

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93	14145-51 14185-86	Dec. 1	YK	Gunn Hemstock Gunn	CAGPL	Simulation of noise; disturbance to geese Regulations of works; access to wildlife, monitoring programs
94	14221-44 14283-90	Dec. 2		Gunn Hemstock Jakimchuk		Location of compressor stations; bird nesting sites; recommendations Noise disturbance studies, caribou behaviour; impact; acclimatization; permanent feature on the landscape;
95	14340-41 14360-70	Dec. 3		Hemstock Jakimchuk		Servicing of compressor stations and facilities Interaction between personnel and mammals; garbage areas; Alyeska; hunting and firearm regulations.
98	14867-84 14899-911 14955	Dec. 8		Scott Gunn Hemstock Gunn Jakimchuk	MVPI CAGPL CAGPL CAGPL	Possibility of using DEW line sites on North Slope Disturbance to birds; noise tests, North Slope Turned off during caribou calving, North Slope
99	15054 15085 15110-11	Dec. 9		Hemstock Hemstock Bouckhout		Effects on wilderness values of area Colouring for aesthetic effect
100	15348-50	Dec. 10		Bouckhout	Foothills	Relocation to avoid sensitive area, silencing compressor, limiting overflights, contingency plans
106	16209-12 16227-28 16235-37	Dec. 18		Calef Calef Calef	CARC	Location re: caribou migratory corridors, confined areas; disadvantage; disturbance re: sight and sound Aesthetics re: caribou observers; harm to caribou Noise simulation re: effect on caribou
109	16711-12	Jan. 14		Templeton	EPB	Noise specifications; silencing equipment
111	16928-29	Jan. 16		Calef		As a disturbance to caribou
C-25	2477	Sept. 8	FS	Ellwood	Foothills	Location re Fort Simpson
C-27	2725	Sept. 10		Workman	CAGPL	Northerners employed
C-28	2794-95	Sept. 10	WR	H. Hardisty	Citizen	Opposition re Wrigley region, effect on trapping
C-30	2915	Oct. 6	PP	Ellwood		Training facilities - location
C-36	3350-52	Jan. 29	IN	Ellwood		Proposed location of Foothills' stations
112	17092	Jan. 20	IN	Berger Marshall	CAGPL CAGPL	Heating greenhouses with exhaust heat
114	17359-60	Jan. 22		Hollingworth	Foothills	Exhaust heat uses
121	18457-61	Feb. 10		Barry	COPE/ITC	Construction of stations at Dew Line sites; positioning of station re bird concentrations; potential impact on bird nesting habits
122	18488 18580-81	Feb. 11		Carter Barry	CAGPL	Relocation of station CD-08 Impact of compressor station noise on Delta birds; alternate delta station sitings
130	19736-37 19744-54 19772-73 19778-79	Mar. 16	YK	Marshall Williams Purcell Williams Williams	CAGPL CAGPL	Planned move of station CD-08, from Delta to Tununuk Junction Relocation of station CD-08 to Tununuk Junction; use of DEW line sites for stations; relocation of stations to give twin water crossings same capacity as single 48 inch line, cross-Delta route Unchanged number in early operating years; relocation of compressor station CD-08 to Tununuk Junction, effect on construction plan Additional station requires additional technicians; fewer stations at Inuvik because of shorter route

COMPRESSOR STATIONS

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131	19873-75 19976-77	Mar.17	YK	Williams Purcell	CAGPL CAGPL	Gravel requirements, stations: CD-08, CA-06 Moving station CD-08, effect on Prudhoe Bay Supply Line gas flow; alternate plans remove flow restriction
132	20045 20110-26 20146-47	Mar.18		Williams Purcell Williams Purcell Williams Purcell		Using DEW line sites for compressor stations Hauling heavy equipment to CD-08; moving stations, penalties involved; station CD-08, costs of moving compared to same move on mainline; equivalent capital costs of a move Relocation of MD-01
133	20128-34 20145-46	Mar.23		Rowe Gunn	CAGPL CAGPL	Construction activity carefully controlled on Delta, movement of CD-08 to Tununuk Junction; flight controls, restrictions to CD-08; two fewer on Delta route Relocation of compressor station CD-08 lessens bird impact, Tununuk better than Tununuk Junction as site
134	20337-39	Mar.24		Gunn		Noise reduction studies, noise levels hoped for re birds; would prefer CD-08 at Tununuk, not Tununuk Junction
135	20526-27 20562-63	Mar.25		Hemstock Marshall	CAGPL CAGPL	Supplying of CD-08 by barge Costs of moving CD-08
136	20608 20616-19	Mar.26		Marshall Gunn Banfield		Using DEW line sites on North Slope Disadvantages of "DEW lineroute", North Slope
C-48	4697-98	Apr.30	FS	F. Paulette Rowe Burrell	Citizen CAGPL Foothills	Compressors already built
C-56	6092-99	May 19	REG	F. Maginnes	Citizen	Use of waste energy, exhaust gases to grow fruit, vegetables
161	24803-08 24880-81	July 12		Carlson Hollands	CAGPL	Establishment of operating procedures for equipment; preventative maintenance programs; additional monitoring during unattended operating phase M-15 no longer typical example, number of facilities, employees; average crew size
162	25060-61	July 13		Trusty	CAGPL	Addition of airstrip at site M-13; M-15 to be located six miles from Fort Simpson
163	25190	July 14		Trusty		Possible hiring of regional residents
C-68	7905-06	July 16	FP	Ellwood	Foothills	Additional stations if more gas becomes available
C-71	8015-16	Aug. 10	RE	C. Football	Citizen	Noise will frighten animals
193	30106-07 30135-	Oct. 5	YK	Hernandez Doyle	EPB EPB	Waste disposal, timing of construction Station design approval methodology
194	30427-32	Oct.6		Lipsett	MVPI	Methods of powering oil pipeline pumping stations
197	30989	Oct.13		Bergasse	MVPI	Economis of hydroponic gardening in conjunction with pipeline compressor stations

CONNECTING PIPELINE FACILITIES

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XVI	1761-71	Mar. 12	YK	Dau Gibbs	CAGPL Foothills	Route selection, delivery points
XXX	3788	Apr. 15		Purcell Gibbs	CAGPL	Saskatchewan, Trans-Canada Pipeline
49	6459-6504	June 5		Horte	CAGPL	Gas through Caroline, Monchy, Kingsgate, Empress
56	7893 7914-20 7929-33	Aug. 18		Blair Blair Blair	Foothills	Gas transmission system, research, use of existing facilities in Alberta, ACTL, Westcoast Transmission Connecting with Trans Canada Pipelines Aduate connecting facilities, potential spare capacity as Alberta reserves decline

CONNECTION PIPELINE FACILITIES (continued)

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57	8071-91	Aug. 19	YK	Blair	Foothills	Pipe size of connecting facilities; export orientation; ownership of facilities; location; Alberta, B.C.; distribution of gas usage; looping
58	8122-28	Aug. 20		Blair		Possibility of looping AGTL pipeline
52	6923-24	Aug. 12	WH	Dau		Southern junction point most suitable to American interests
53	7062	Aug. 13		Trusty	CAGPL	Lateral lines for alternate routes
	7095-7100			Banfield	CAGPL	Synergistic considerations of gathering lines
C-23	2319	Aug. 14		A. Fekete	Citizen	Junction with southern systems
	2336-38			R. McCandless	Citizen	Economics of feeder lines, recovery of reserves
	2352			C. Taylor	Yukon Conservation Society	Connection of line with continental system at Fort Nelson
61	8631	Sept. 15	YK	Mirosh	Foothills	Length of route, meter stations - number and location
62	8848-49	Sept. 16		Mirosh		Yellowknife lateral; non-chilled pipe; pipe integrity
64	9347-49	Sept. 18		Mirosh	Foothills	Feasibility of bringing down gas from Banks & Victoria Islands through Foothills system by pipeline or alternate mode
65	9586-88	Sept. 19		Claridge Davison	Foothills Foothills	Geotechnical problems foreseen in Pine Point & Fort Providence laterals
67	9921-22	Sept. 23	YK	Mirosh	Foothills	Parsons Lake Lateral
68	10052-53	Sept. 24		Hushion	Foothills	Laterals should be included in Foothills total pipeline mileage
	10084-85			Hushion		Total mileage when laterals included
	10104-05			Hushion		Joint operations and sharing of facilities in Alberta

CONSTRUCTION - ACCIDENTS

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74	11004-06	Oct. 17	YK	Berger Williams	CAGPL	Alyeska; accidents occurring to construction workers
85	12681-82	Nov. 12		Bayly Hemstock	COPE/ITC CAGPL	Rupture of storage bladders
86	13018-57	Nov. 13		Williams		Working safety under artificial lighting, construction spreads
106	16170-72	Dec. 18		Lent	CARC	Vehicle - wildlife collisions
	16175			Lent		No serious injuries or deaths re: pipeline workers
C-27	2735	Sept. 10	FS	M. Lafferty	Citizen	High percentage of accidents on job; safety precautions on pipeline
165	25528-29	July 19	YK	Jensen	Foothills	Minor illnesses and industrial accidents treated on site; hospitalization in closest regional hospital

CONSTRUCTION - ARCTIC AND CONVENTIONAL METHODS

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XXVI	3120	Apr. 9	YK	Williams	CAGPL	Disposal of excavated material
XXVII	3328	Apr. 10		McRoberts	CAGPL	Hand/bulldozer clearing
XXVIII	3485-86	Apr. 11		Clark		Culvert inlets, perforated pipes
	3520-23			Scott	MVPI	Slope stabilization
	3553-54			Morgenstern	CAGPL	
	3553-54			Scott		Slope instability
XXX	3729	Apr. 15		Purcell	CAGPL	Compressor stations
	3761			Purcell		Buried pipeline
XXXII	4097-4102	Apr. 18		Reid	CAGPL	Traditional cathodic protection technique (corrosion)
XXXIII	4283	Apr. 21		Dau	CAGPL	Inspection program
	4295			Dau		Construction equipment for frozen terrain
	4335			Dau		Main steps of pipeline construction
	4337-38			Dau		Hand clearing and modified conventional techniques
	4341-71			Williams		Slides, general pipeline construction

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XXXIV	4433-35	Apr. 22	YK	Dau	CAGPL	Coastal slope/prairies
XXXVII	4753-55	May 13		Dau		Techniques for an off-shore route
XXXVIII	4842	May 14		Bayly	COPE/ITC	Brush piled up before adding snow for snow road
	4854-57			Dau		Filling techniques
	4864			Dau		Preferred crossing techniques
	4887-94			Lucas	CARC	Special techniques, sensitive permafrost terrain
	4923-24			Lucas		Alyeska Arctic techniques
	4974-75			Goudge	MVPI	Hand clearing in areas for Arctic Construction methods
	4987-91			Williams		Sensitive areas; burning, chipping
XXXIX	5092-96	May 15	YK	Dau	CAGPL	Switching of techniques during construction
	5104-14			Dau		When to use - design manual
	5120			Harlan	CAGPL	Erosion potential is important consideration
	5147-50			Harlan		Diversion dikes off ROW
41	5281	May 20		Fielder	CAGPL	U.S.S.R. - conventional construction - minimal permafrost
C-22	2240-42	Aug. 11	WH	D. Lloyd	Citizen	Flexibility of conventional method
61-A	8712-13	Sept. 15	YK	Bauer	Foothills	Plan to use conventional techniques wherever conditions permit
62	8878-79	Sept. 16		Walker	Foothills	Bending and ditching techniques; flexible pipe
65	9576-86	Sept. 19		Claridge	Foothills	Land clearing; construction safeguards prepared for NEB
	9505-12			Bauer		Arctic techniques of clearing, grading, stringing, bending, line-up, welding, ditching, coating, lowering in, tie-in, back fill, cleanup
67	9914	Sept. 23		Mirosh	Foothills	Difference between Foothills and CAGPL spread and build-up; Foothills based on conventional pipelining
	9945-49			Bauer		Building of snow mound to prevent frost penetration
68	10147	Sept. 24		Dau		Northern experience of CAGPL contractors
70	10507	Sept. 26		Owen	MVPI	Ordinary construction and arctic construction; straight grading, snow roads
	10545-63			Longlitz	MVPI	Vehicle type; winter construction; sensitivity of terrain permafrost
	10555			Longlitz		Stream crossings; bridge structures; use of snow fill to prevent stream bank disturbance
79	11705-11	Nov. 3		Minning McCart	CAGPL CAGPL	Techniques to minimize impact of borrow operations on active flood plains
80	11930-37	Nov. 4		Clark Dabbs	CAGPL CAGPL	Use of large diameter rollers, grading, techniques recommended for snow road construction in Arctic
82	12322-24	Nov. 6		Dabbs		Revegetation techniques - difference in northern areas
85	12647-60	Nov. 12		Bayly	COPE/ITC	North Slope, river crossing techniques
90	13744	Nov. 19		McCart		Construction method, river crossing berm
104	15928	Dec. 16		Miller	CARC	Culvert selection instream crossings
106	16162-63	Dec. 18		Lent	CARC	Lack of Arctic engineering principles re: delay in right-of-way construction, Alyeska, and lack of erosion control and rehabilitation
C-35	3393-94	Oct. 22	LI	Berger		Pipeline construction through permafrost - methods employed Alaska, Soviet Union, Canada
C-38	3629	Feb. 12	In	Berger	MVPI	Pipeline construction through permafrost
C-52	5368-78	May 13	CAL	J. Rymes	Citizen	Equipment, material used in Arctic climatic conditions
195	30463-522	Oct. 7	YK	Mirosh	Foothills	Gravel pad construction for spreads, use for looping, on North Slope; gravel road, pad compared; ability of construction equipment to perform during winter
	30593-97			Fowler	CAGPL	Prudhoe Bay experience, drilling supports installation, pipe welding, laying carried out on snow pad, start-up, termination dates
	30606-08			Dau	CAGPL	Degree day requirements for snow road construction start-up, utilization, abandonment at Inuvik
	30636-40			Fowler		Warm-up shelters used to counteract wind chill

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XIX	2207-09 2011	Mar. 17	YK	Williams	CAGPL	Sans Sault Test site; drilling rigs, side boom, winter canopies; ditching machines
XIXA	2275	Mar. 17		Clark	CAGFL	Ditching machines
XXIII	2751-58	Mar. 21		Bell Williams	NWTIB/MA	Exhibit 54, ditcher, back-hoe, ripper, machine excavation
XXIV	2773	Apr. 7		Clark		Elevated pipe-piling equipment, blasting for supports
	2803-07			Williams		Soft and hard track equipment for snow road construction, snow making machines
	2847-48			Hollingshead	CAGPL	Ditching with back-hoe, dozer
XXV	3043	Apr. 8		Hollingshead		Ditcher, back-hoe
XXVII	3328	Apr. 10		McRoberts	CAGPL	Bulldozers/shovels, pipe burial
	3336-37			Williams		Bulldozer/hand clearing
	3346			Williams		Heavy equipment up to D-7 size
XXVIII	3552-53	Apr. 11		Morgenstern		Bulldozers/hand clearing
XXIX	3652-53	Apr. 14		Purcell	CAGPL	Design - selection specifications
	3683-3701			Holmberg	CAGPL	Metals - brittle and ductile fractures
	3701			Purcell		Pipe weldability
XXXII	4041-46	Apr. 18		Purcell		Arrestor bands - spacing
	4060-62			Purcell		Bulldozer - accidental damage to pipeline
XXXIII	4291-98	Apr. 21		Dau	CAGPL	Peak, first winter construction season
	4301			Dau		Snow roads for equipment traffic
	4305-06			Dau		Pulverizer mixing machine
	4309-21			Williams		Snow compaction vehicles, cultimixer, snow gun
	4337-38			Dau		Bulldozer for vegetation clearing
	4352			Williams		Ditcher, developing larger machine
XXXIV	4487-89	Apr. 22		Dau		Use on snow roads
XXXV	4552-53	Apr. 23		Dau		Movement of construction camps, use same equipment
	4557-58			Dau		Spare equipment in case of failure
	4564-67/8			Williams	CAGPL	Snow manufacturing machine
	4572-73			Dau		CRC automatic welding equipment
	4585-90			Dau		Equipment owned or available to Canadian pipeline industry
	4601-14			Williams		Ditching machine testing
	4621-23			O'Rourke	CAGPL	Barging equipment, ditching machines
XXXVII	4739-41	May 13		Bayly	COPE/ITC	Dew line, weather records
	4755			Dau Williams		Lay barge, trenching; blasting
	4818-21			O'Rourke		Ditches, trenching machines
XXXVIII	4828-37	May 14		Williams		Chippers, vegetation; snow harvesters, track/rubber tired binding machines
	4878-86			Berger		Ditcher for permafrost terrain and teeth
	4890-91			Dau		Snowmaking equipment, grading, dozer blades
	4906-13			Lucas	CARC	Soft-track vehicles, rolligons
	4919-22			Williams		Demobilization
	4946-53			Goudge	MVPI	Arctic Construction vehicles
	4957-63			Williams		Winter surveys -snowmobile, bombardier; chain saws
	4965-66			Williams		Bulldozers, V or Roam-type cutting blade attachments
	4978-89			Williams		Machines clearing in winter
	4997-5001			Williams		Snow compaction - tracked vehicles, rolligons
XXXIX	5004-33	May 15		Williams		V-type and roam blades
	5059-62			Dau		Additional men and equipment to accelerate schedule
	5066-67			Williams		Truck traffic - grades on snow roads
	5148-50			Harlan	CAGPL	Dozer tractors to build diversion dikes

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43	5589	May 22	YK	Horte	CAGPL	Availability, procurement
46	6104-05	June 2		Templeton	EPB	Clearing, burning, grading - terrain interaction
48	6429-30	June 4		Templeton		Regulations must be in effect when decisions made to order equipment
50	6731-32	June 6		Horte		Purchase of equipment by CAGPL rather than contractors
C-4	224-228	May 28	Hay River	Neufeld	Citizen	Barge construction; barges assembled in Hay River
58	8171-3	Aug.20	YK	Blair	Foothills	Intention to prevent alcohol with vehical use; harrassment of wildlife from aircraft
61	8642-43	Sept.15		Lazerte	Foothills	Compression equipment; spacing and construction scheduling; coding effect given spacing distances; horse power optimization studies.
62	8838-41	Sept.16		Mirosh	Foothills	Conventional highway equipment; width of the right-of-way ; access roads, conventional pipeline equipment
	8868			Mirosh		Processing of borrow materials
65	9581	Sept.19		Claridge	Foothills	Use of low pressure vehicles on sensitive terrain
	9597			Mirosh		Argues that CAGPL over-estimated the production rate of spreads in light of same equipment used by both
	9606			Bauer	Foothills	Types of bulldozers for grading
	9617			Kosten	Foothills	Upgrading required for 42" pipe; contractors' resources
	9641			Jarvis	Foothills	Use light load pressure vehicles
66	9703			Kosten		Effect of cold on machinery
	9707			Jarvis		Use of snow making equipment
	9719-32			Jarvis		Snowmaking & harvesting techniques; snow fences
	9741-43			Jarvis	Foothills	Use of a pulvimixer for snow roads
	9761			Mirosh	Foothills	Effects of permafrost & ice on ditching teeth
	9810-12			Kosten	Foothills	Skills & experience needed to operate side booms because of safety
67	9839-40	Sept.23		Bauer	Foothills	
				Mirosh		Use of wood chipping machines and burning sleds
	9878			Mirosh		Supply of equipment available to Foothills if schedule compressed for station construction
	9937-41			Bauer		
				Mirosh		Machinery used for clearing
	9996-99			Mirosh		Inclusion of materials and equipment for community service laterals in tonnage estimates
	10005			Mirosh		Inclusion of materials and equipment for community service laterals in tonnage estimates
	10033			Mirosh		Use of heavy wheeled and tracked vehicles
68	10163-66			Williams	Foothills	Shutdowns due to climate; shelters for workers at sites; preparation of equipment
70	10543-63	Sept.26		Longlitz	MVPI	Vehicles use; mushroom shoes; surface disturbances; crawler tractor; winter construction
79	11728-29	Nov. 3		Dabbs	CAGPL	Use of shoes on blade to peel off vegetation, which would later be re-established
	11748-53			Dabbs		Types of blade, angle required for sod replacement technique - use of backhoe, cat, wheel ditcher
	11935-38			Hemstock Williams	CAGPL CAGPL	Pressure of various vehicles allowable on snow roads
81	12063-65	Nov. 5		Minning	CAGPL	Equipment required to treat granular materials; wheel ditcher pulverizes into smaller lumps; use of crushing machines, backhoe
83	12337-41	Nov. 7		Dabbs	CAGPL	Inadequacy of undersized Cat with ripper-tooth to peel back tundra mat; use of tundra mat for backfill insulation
84	12543-47	Nov. 8		Anthony Harlan Williams McCart	CARC CAGPL CAGPL CAGPL	Water in borrow pits, active flood plains, difficulties for machinery
85	12681-82	Nov. 12		Bayly Hemstock	COPE/ITC CAGPL	Methanol storage

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86	12928-31 13020-21	Nov. 13	YK	Vaartnon Williams	Foothills	Revegetation, ground preparation machinery Artificial lighting, construction
87	13093-94	Nov. 14		Berger		Bulldozing of Klokut archaeological site
91	13891-92	Nov. 20		Dau	CAGPL	Vehicles required, numbers
98	14900-04	Dec. 8		Gunn Hemstock	CAGPL	Aircraft types used; hovercraft used for repairs; noise, bird disturbance
99	15060-61	Dec. 9		Jakimchuk	CAGPL	Impact of presence on wilderness values or area
106	16165-66	Dec. 18		Lent	CARC	Carson's report re: early planning to ensure right equipment to do proper job
C-26	2714-15	Sept. 9	FS	A. Nahanni	Citizen	Steel products re machinery, equipment; impact of steel on North
112	17086-90	Jan.20	IN	Bliss	GPC-D	Sources of timber for pilings, Fort McPherson, Point Separation, possible regeneration problem, alternate sources
114	17302-05 17385 17412-13	Jan.22		Mainland Mainland Hollingworth	GPC-D-I Foothills	Taglu gas field, total tonnage; shipping; modules barged in Taglu gas field, building piles, steel and wooden,Foothills requirements
115	17444-48 17517 17583-85	Jan.23		Faulkner Stamberg Stamberg	GPC-D-S GPC-D-G	Taglu gas field, volume of materials Niglintgak gas field, ordering materials on long delivery after final design; tonnage of materials for gas plant, gathering lines, drilling; transportation of materials by barge Parsons Lake gas field,use of wood or steel pilings for elevated gathering lines Parsons Lake, gas plant construction modules, transportation, timing
116	17605-11 17623- 17630-31 17648	Jan.24		Scott Stamberg Stamberg Berger Bayly Scott Rempel	COPE/ITC GPC-D-G GPC-D-I	Gas plant construction modules, weight, transportation Transportation of modules by barge via Husky Lakes to Parsons Lake Number of pilings required; utilidors Gaseous emission into atmosphere from construction machinery
130	19775-79 19818-20 19830-38	Mar. 16	YK	Williams Williams Williams	CAGPL	Effect of construction amendments on construction manpower and equipment requirements Description of dredge to be used in Shallow Bay Dredges in Shallow Bay, techniques
131	19866-71 19888-89 19913-23 19929-33 19944-46 19954-56 19964-65	Mar.17		Williams Marshall Williams Williams Williams Williams Williams Williams	CAGPL	Ditching machine testing, San Sault site, ditcher tooth development Proprietary agreements relating to ditcher teeth development work; dredger to be used on Shallow Bay crossing Number of water haul vehicles for snow manufacture; equipment for snow road construction, snow manufacture; testing snow-making equipment Snow-making machine, water hauling trucks; wind shelter on snow-maker Effects of cold on equipment Dredge for cross-Delta river crossings Size of gravel hauling trucks, Shallow Bay crossing; marine equipment used for construction
132	20082-83	Mar.18		Williams		Shallow Bay crossing, dredge type, number used, time needed

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56	7851-8	Aug. 18	YK	Horte	CAGPL	Wages, working conditions, overtime and high wages, work policies, work intervals
58	8168	Aug. 20		Berger		Alyeska experience re: large numbers of young men, high wages, individual rights
	8250-1			Blair	Foothills	regulations and policy as to use of firearms and alcohol; community visits
53	7072-73	Aug. 13	WH	Trusty	CAGPL	Potential impact of influx of non-natives
	7191-92			Joe	CYI	Workers in Alyeska from southern U.S. states
C-18	1806	Aug. 5	FGH	A. Wilson	Citizen	Workers converging on communities
C-19	1855-57	Aug. 6		Rowe	CAGPL	Camp size at Hare Indian River
				Elwood	Foothills	
C-20	1985-86	Aug. 7		A. Tubac	Citizen	Natives competent but not formally trained
C-23	2372	Aug. 14	WH	R. Genelli	Citizen	Influx could force residents to leave
	2385-88			B. Cooper	Citizen	Experience with labour force in mines
61	8595-614	Sept. 15	YK	H.L. Stevens R. Garlik S. Cook	USWA USWA USWA	Union members involved in Canadian industries and mining, employment generated; short term proposal; overtaxing of Canadian labour supply and manufacturing facilities
62	8951-52	Sept. 16		Scrimas	Foothills	Provision by Foothills to include communication services in the housing built for labour force; communities Inuvik, Norman Wells, Fort Simpson, Yellowknife
63	9013-19	Sept. 17		Lazerte	Foothills	Interrelationship between compressor & pipeline crew requirements
	9023			Mirosh	Foothills	Admission that compressor & pipeline crews would be dovetailed
64	9227-28	Sept. 18		Hushion	Foothills	Numbers of men needed to operate automatic welding machine
65	9593	Sept. 19		Berger		Direction to CAGPL to give specific number of workers north of 60
	9618-23			Kosten	Foothills	Distribution of trained personnel; scheduling; availability of skilled workers; training programs; turnover; unskilled labour
66	9651-74	Sept. 22		Kosten		Peak manpower requirements; difficulties of operation at Christmas
	9678-80			Mirosh Bauer	Foothills Foothills	Advance clearing reduces manpower peaks; avoids scheduling problem if strikes occur
	9747-52			Mirosh		Numbers required in clearing & grading
	9800-14			Berger Kosten		Need for highly skilled workers for side booms & equipment demanding experience - safety factor; Alyeska & Trans Canada employment of skilled workers; incentives; native employment in clearing, grading; training programs
67	9878-99	Sept. 23		Mirosh Yosten Bauer		Manpower requirements if compressors powered by 1980; incentives to censure labour supply; wages; question of restricting overtime; example Trans-Alpine Pipeline
	9901-07			Kosten		Wages incentives for skilled workers; overtime payments; economic factors in giving shifts
	9939			Mirosh		Handclearing as means of employing more personnel
	9968			Mirosh		Manpower requirements for looping
	10004			Genest	CAGPL	Figures of peak construction force north of 60°
68	10132	Sept. 24		Dau	CAGPL	Manpower estimates made by contractors after route investigations
84	12594-96	Nov. 8		Williams	CAGPL	Crew size, Spread "C" camp; water requirements
86	12968-91	Nov. 13		Lawrence	Foothills	Water requirements, uses; sewage
88	13216-23	Nov. 17		Bouckhout	Foothills	Environmental inspectors
	13274-77			Berger		If pipeline built in four years fewer workers needed each season
89	13427-30	Nov. 17		Gunn	CAGPL	Disturbance of birds
92	13975-77	Nov. 21		Bayly McCart	COPE/ITC CAGPL	Restricting personnel from fishing; enforcement
114	17297-98	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas plant
	17412-			Mainland		Taglu gas plant

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C-52	5372-73	May 13	CAL	J. Rymes	Citizen	Specialized equipment, Arctic winter activities
159	24475-78	July 7	YK	Boorkman	CAGPL	Question re effects if Alyeska had been constructed without use of already existing facilities
C-68	7859-68	July 16	FP	Ellwood Wirth	Foothills CAGPL	Use of Axe Point as a staging area; amount of material to be moved through the facility
C-76	8352-54	Aug 25	DET	Chief Charlo Burrell Steeves	Citizen Foothills CAGPL	Question re storing pipe in Delta, denied
178	27595-97	Aug 26	YK	Merrett	MVPI	How volume varies with scheduling
193	30134	Oct. 5		Doyle	EPB	Equipment should require Agency approval
195	30498-522	Oct.7		Mirosh Kosten	Foothills Foothills	Road, pipeline building equipment compared re ability to perform during winter on North Slope, calendar day productivity bases
	30598-603			Fowler Daniels	CAGPL CAGPL	Factors considered in development of an Arctic ditcher; winter shelter designs
	30620-21			Johanson	CAGPL	Design of Banister model 710 ditcher
	30641-42			Rymes	CAGPL	Equipment capable of handling temperatures to at least -60° Fahrenheit
	30671-80			Dau	CAGPL	Testing of 710, 812 ditchers for North Slope conditions; construction equipment - damage to snow roads
195A	30684-88			Fowler Rymes		Equipment susceptibility to breakdown in cold conditions
	30701-09			Dau Rymes		Mechanical, metallurgical evaluations of ditcher teeth at Churchill, Edmonton, tests to be conducted at Norman Wells
	30710-11			Walker	CAGPL	Employment of shelters on Trans Canada Pipeline system in northern Ontario
	30730-37			Johanson Daniels	CAGPL CAGPL	Ditching capacities of the 710, 812 backhoes, Siebe test site
201	31786-92	Nov.16		Marshall	CAGPL	Shelters to be used extensively; artificial lighting; 812 ditcher development program
	31825-29			Gibbs	Foothills	Ditcher model 810 not yet designed, productivity estimates questionable; snow manufacturing machines not yet produced or tested by CAGPL
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XXXIII	4284-91	Apr. 21	YK	Dau	CAGPL	Field manpower requirements, L.G.P.'s
XXXV	4574-77	Apr. 23		Dau		Availability of qualified welders
XXXVII	4789	May 13		O'Rourke	CAGPL	30 - 60 people involved truck transfer, camp facilities
XXXVIII	4835-36	May 14		Williams	CAGPL	Equipment operators, snow roads
	4858-60			Dau		Construction, wharves
	4918			Lucas	CARC	Activities outside; adverse weather conditions
	4959-68			Williams		Crew size, location surveys
XXXIX	5003-04	May 15		Williams		Size of survey crews
	5046-47			Williams		Numbers of crews at wharves and stockpile sites
	5059-62			Dau		Additional men if needed - labour pool
41	5380-81	May 20		Hurd	CAGPL	Training programs, unions
42	5386-87	May 21		Hurd		Unions; movment of workers from one place to another
	5572-74			Berger		Peak years, 10,000 workers and supervisory personnel
43	5575-78	May 22		Genest Williams	CAGPL	Number of construction workers, looping
	5588			Horte	CAGPL	Labour requirements
45	5924-25	May 24		Berger		Crews needed for looping
48	6334-39	June 4		Gourdeau	EPB	All project personnel must be made aware of environmental importance
49	6575-77	June 5		Horte		Canadian employment where possible
C-4	216-218	May 28	HR	Williams		Men required to unload pipe, build and develop stockpile site
C-5	390-92			Tetrault	Citizen	Union members, initiation fees

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115	17515-16	Jan.23	IN	Faulkner	GPC-D-S	Niglintgak gas field
116	17653-	Jan.24		Rempel	GPC-D-I	Firearms for protection of personnel
130	19773-75	Mar. 16	YK	Williams	CAGPL	Additional construction crews for additional or relocated facilities; effect of amendments on construction manpower requirements, sixth year
131	19948-49	Mar.17		Williams		Workers leaving at Christmas time, Alyeska experience; welders crucial for project
	19981-82			Williams		Two dredging crews, one construction crew for east, Langley channel crossings; two construction crews for Middle, West channels, and Shallow Bay crossings
133	20128	Mar.23		Rowe	CAGPL	Personnel confined to working area, compressor station construction on Delta route
134	20214-21	Mar.24		Jakimchuk	CAGPL	Alyeska workers feeding bears; regulations for prevention; possible man-bear conflicts, problems
136	20712	Mar.26		Peet	MVPI	Possible impact on fisheries
	20725-29			Peet		Allowing crews to sports fish
142	21658-63	Apr.13		Virtue	NORTRAN	Training for construction jobs
143	21698-710	Apr.14		Virtue		Possible training program, problems with implementation; counselling
	21733-38			Virtue		Feasibility of training program for construction workers
150	22916-19	May 4		Simpson	NWT IB/MA	Possible training program for construction employees
C-44	4287-88	Mar.9	TUK	Andreason	Citizen	Pipeline workers in town not welcome
C-47	4624-A -27	Mar.13	ARR	W. Simon Beer Carter Berger	Citizen Foothills CAGPL	Construction workers not allowed into communities; enforcement
159	24526-31	July 7	YK	Boorkman	CAGPL	Alyeska, peak employment
161	24774-90	July 12		Trusty	CAGPL	View graph, estimated man-years of direct employment north of 60°
162	24944-45	July 13		Williams	CAGPL	Number of employees, peak employment period
	25056-57			Trusty		Number of employees, construction of permanent operations facilities
	25062-63			Trusty		Staffing required at Hay River, Fort Simpson, Axe Point, Enterprise staging areas
165	25513-15	July 19		Ellwood	Foothills	Routing of personnel to avoid adverse social effects via existing airports; transportation to point of hire; self-contained camps; emergency health services in camps; employment rotation and labour pool systems; adequate law enforcement facilities
	25516			Ellwood		Allowed to fish in free time; option of paycheck sent to home or bank
C-68	7876-77	July 16	FP	Ellwood		Numbers needed to build mainline section near Fort Providence
170	26411-15	Aug.16	YK	Ellwood		Manpower requirements
171	26518	Aug.17		Burrell	Foothills	Labour pool system
173	26945	Aug.19		Kyllo Dittrich	COPE/ITC COPE/ITC	Isolated from families in construction camps, concern for native families who rely on the "man in the family"
178	27589-94	Aug.26		Merrett	MV PI	Composition of skilled, semi-skilled and unskilled workers, how vary between winter and summer season and with scheduling, how numbers of workers vary
	27640-41			Pritchard	MV PI	Number of workers recruited from communities, question of education
180	27848	Sept. 7		Hodson	MVPI	Estimates of total employees needed on northern pipeline, numbers of semi-skilled workers
	27854-55			St. Eloi	MVPI	Survey by United Association of qualified pipeline welders available for work
	27867-68			Berger		Possibility that qualified workers will not be hired because of union membership

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180	27890-96	Sept. 7	YK	Nessel	MVPI	Failure of quota system in Northern Saskatchewan, Trans-Alaska Pipeline
	28005-09			St. Eloi Whiteford Nessel	MVPI MVPI	Experience of workers in northern working conditions, when weather determines they cannot work
181	28012	Sept. 8		LeClair	MVPI	Specializing to gain proficiency in trade, training
182	28359-60	Sept. 9		McCombs	MHA/NWT	Bad feelings between Alyeska employees and communities, ways to avoid future animosity
	28376			Clarke	COPE	Walk-ins a day during Alyeska construction
192	29907-13	Oct. 4		Baring-Gould	MVPI	Valdez: popular views of construction camp workers, basic characteristics; participation in community
194	30442-43A	Oct.6		Wylie	MVPI	Oil pipeline more labour intensive than gas pipeline, Alyeska project
195	30527-51	Oct.7		Kosten	Foothills	Impact of winter conditions on productivity, down times estimated
	30556-72			Kosten		Labour productivity at -35° F.
	30579-82			Kosten		Mainline crews to be housed at wharfsites, compressor stations crews at stations
	30636-40			Fowler	CAGPL	Alyeska experience - warm-up shelters employed by labourers
	30650-52			Fowler		Alyeska, length of Christmas shut-down
195A	30693-94	Oct.7		Fowler		Increase in force size due to extreme temperatures not expected
	30715-17			Fowler Dau	CAGPL	Manpower rotation system not defined
201	31787-92	Nov.16		Marshall	CAGPL	Ability of men to work under conditions of extreme temperature, wind
	31726-27			Gibbs	Foothills	Ability to maintain productivity at cold temperatures
203	32158-60	Nov.18		Veale	CYI	Recommended that workers be kept in construction camps; workers to be flown south if labour dispute; prohibited from using Old Crow airport

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XXXIII	4231-32	Apr. 21	YK	Dau	CAGPL	Construction plan by NES for CAGPL
XXXIV	4386-89	Apr. 22		Veale Dau	CYI	Time span, formulation of construction plan
	4439-40			Dau		Interior route, coastal route
	4451			Williams	CAGPL	Deadlines, laying pipe
	4459-65			Dau		Route, reporting; inspection
	4471			Dau		Schedules, caribou migration
XXXIX	5083-91	May 15		Williams		Firth River crossing - culvert installation
	5097-5102			Dau		Problems and solutions, ground truth for design
	5175-78			Harlan	CAGPL	Activity starts after regulatory approvals
41	5255-58	May 20		Hurd	CAGPL	Unscheduled major repairs
	5314-16			Hurd		Two year construction period
43	5587-91	May 22		Horte	CAGPL	Consultants, N.E.S.
	5653			Horte		Looping, timing of construction
	5674-75			Berger		Impact of looping
	5679			Berger		Likelihood of looping, continuation of construction
44	5725-33	May 23		Horte		Design construction techniques, environmental aspects
	5799-5807			Bell Horte	NWT IB/MA	Planning; construction activities
	5840			Horte		Presence of highway beneficial to pipeline construction
45	5982-90	May 24		Scott	MVPI	Planning activities
46	6048-58	June 2		Templeton	EPB	Matrices - construction vs environmental components
	6074			Craik	EPB	Terrain degradation from winter roads
	6103-19			Templeton		Interaction with terrain, impact
	6123-27			Adam	EPB	Relation to vegetation
47	6153-58	June 3		Wilimovsky	EPB	One of main concerns of EPB (impact on fish)

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47	6183-85	June 3	YK	McT-Cowan	EPB	Disturbance human presence - effect on birds
	6192-93			McT-Cowan		Effect on birds, fuel spills, barge traffic
	6243-50			Gourdeau	EPB	Impact on man/land relationship, land claims factor
48	6429-31	June 4		Templeton	EPB	Problem of shutdown - funnel effect; timing of decisions
49	6511-18	June 5		Horte	CAGPL	Review plans and make recommendations - Northcan
	6614-19			Horte		Environmental damage
50	6731-40	June 6		Horte		Equipment, personnel, contracts
C-4	282-286	May 27	HR	D. Dean	Citizen	Contracting business, Hay River
51	6791-96	Aug. 11	WH	Hemstock	CAGPL	Spreads, scheduling; cost comparison, routes; burial depth studies, mileage per route
	6803			Hemstock		Environmental impact; restoration measures; operation and maintenance; scheduling, spreads; drainage control; water demand
	6842-44			Dau	CAGPL	Construction time, Fairbanks corridor, given long mileages of permafrost and mountainous terrain
	6854-57			Dau	CAGPL	Costs, supply laterals; routes and alternative corridors; mileage and increased construction costs
54	7417-19	Aug. 14		Geist	CARC	Effects of pipeline building, road construction, compressor stations and aircraft on Dall Sheep
	7534-35			Parker	CARC	Alyeska re: Need for all weather gravel roads, transportation of men, materials, and equipment
55	7636	Aug. 15		Morlan	CARC	Ditching, laying of pipe, construction activity, facilities may destroy archaeological sites
C-21	2183-84	Aug. 9	NW	Burrell Rowe	Foothills CAGPL	Involvement of local industry
C-22	2291-92	Aug. 11	WH	O. Posiwascher	Citizen	Difficulty of planning housing
C-23	2313-14	Aug. 14		A. Fekete	Citizen	Standard and speed of pipeline construction
63	9137	Sept. 17	YK	Shelton	Foothills	Not usually the cause of third party damage to pipelines
65	9595-647	Sept. 19		Panel 10	Foothills	Direct evidence
66	9648-838	Sept. 22		Panel 10		Cross examination
67	9839-10035	Sept. 23		Panel 10		Cross examination of Foothills construction panel continued
	9852			Mirosh	Foothills	Cutting of slopes, sealing and settlement of soil
69	10384-90	Sept. 25		Owen	MVPI	Pointed Mountain Pipeline; studies; trench digging; clearing and width of right-of-way; grading; depth of trench; hauling and bending, stringing, of pipe; concrete mixing for saddle weights; back-filling; pads and final tune up of the pipeline; clean up operations and final pressure tests
	10405-43			Owen		Pointed Mountain Gas Pipeline; route; clearing operations; right-of-way; fire and slash burning; welding, laying, ditching operations; frost heave; equipment movements; borrow pits; land use, roads-haul and access
71	10602-11	Oct. 14		Longlitz	MVPI	Equipment movement; use of snow roads and ice bridges; work halted due to break-up; construction scheduling
	10646-47			Bayly Longlitz	COPE/ITC	Prosecution under the Territorial Lands Act for negligence on the part of the operator
74	11002-06	Oct. 17		Williams	CAGPL	Alaska; installation of vertical support members; costs; spreads; accidents; gravel pad construction; snow pads

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76	11198-210	Oct. 21	YK	Weedon Parker	CARC CARC	Impact of highway, pipeline construction on caribou migrations and herd sizes
	11228-47			Weedon Parker		Alyeska; construction work force; qualifications, scheduling
	11325-34			Hughes	CARC	Detailed test hole drilling prior to construction and final design stages; less environmental damage; termination of chilled pipe
	11251-98			Parker Weedon	CARC CARC	Scheduling; assessment of impact
77	11360-73	Oct.22		Rutter	CARC	Routing of pipeline; terrain hazards for a pipeline; facility in construction re: fluting ridges
	11428			Rutter		West of the Franklins provides lower construction costs, fewer access roads
	11438-40			Rutter		Winter construction: ice thickness; equipment losses; construction hazards
	11457-88			Roed	CARC	Edge of the shield route; planning stages and considerations; construction concerns and implications; terrain conditions and sensitivity
78	11492	Oct.23		Roed		Under the sea pipe, construction techniques; pipe design; North Sea, British Petroleum experiences
	11512			Roed		Improved construction conditions; terrain sensitivity construction logistics; oil and gas pipeline
	11561			Roed		East of the Franklins route between mile 600 to mile 400, construction problems; pressure of karst features
	11580			Roed		Under water pipe laying techniques; access to construction areas; staging areas; supply points
	11615-74			Minning	CAGPL	Borrow needs, construction operations; revegetation, restoration, drainage control; pipeline design re: frost heave, saddle weights; buried pipe; water requirements
80	11870-71	Nov.4		Hemstock	CAGPL	Mode of construction (chilled, buried line) not submitted to environmentalists for comment
93	14171-96	Dec. 1		Gunn	CAGPL	Impact of construction on snowgeese; noise experiments; transportation of men, materials; disturbance from aircraft
95	14506-07	Dec. 3		Hemstock		Environmental personnel - responsibilities, involvement, liaison capacity; government monitoring, inspection
96	14569	Dec.4		Banfield Jakimchuk	CAGPL CAGPL	Disturbance with caribou herd
97	14728-34	Dec.5		Jakimchuk		As disturbance to moose
98	14914-19	Dec.8		Scott Gunn	MVPI CAGPL	Increased human access to birds
	14922			Scott	MVPI	Bluenose herds, overwintering conflicts
99	15049-52	Dec. 9		Scott Hemstock	CAGPL	Monitoring during construction
	15067-104			Hemstock Banfield		Construction allowed in Arctic National Wildlife Range; aesthetics, ROW, compressor stations; archaeological salvage, timing, areas
	15114-15			Bouckhout	Foothills	Timing, community laterals; size of project will create possible environmental repercussions
	15134-35			Whitney	Foothills	Impedence of moose movements, Mackenzie River islands
	15139-85			Environmental panel	Foothills	Impact acceptability of project; mitigative measures; possibility of building according to plan; inspection; recommendations; laterals
100	15191-94	Dec. 10		Bouckhout		Environmental inspection, decision-making process
	15251-58			Bouckhout		Environmental inspection staff, manual; training construction workers in environmental matters
	15286-318			Hayden	Foothills	Impact information on fish needed before making recommendations on river crossings
	15312			Scott Hayden		Construction, post-construction activities may disrupt commercial, domestic fish harvest
101	15482-505	Dec. 11		Zoltai	CARC	Building other projects across fens
	15517-19			Zoltai		In fenlands

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103	15763 15793	Dec. 15	YK	Steigenberger Millen	CARC CARC	At Fish Creek Need for definition of clearings outside of right-of-way, allocation of excavated crossing debris, stream bank grading, restorative measures
104	15974-75	Dec. 16		Walker	CARC	Regulation of construction practices by an on-site environmental authority
105	16083	Dec. 17		Ryder	MVPI	Chronic siltation re: maintenance or looping
106	16255	Dec. 18		Bayly	ITC/COPE	JAFWAT controller's construction of Alyeska pipeline
107	16318-39 16369-70	Jan. 12		Craik Templeton Wilimovsky Wilimovsky	EPB EPB EPB	Oversee construction; pipeline authority; responsibilities of pipeline companies, Federal government; recommendations to the Inquiry Experience on construction spreads, oil exploration crews in Northern Alaska that outdoor recreation by employees is minimal; sport fishing
108	16446-55 16461-62 16482-90 16496-506	Jan. 13		McT-Cowan Wilimovsky Templeton Adam Adam Templeton	EPB EPB	Posting of a surety bond - for construction only or for the life of the project Effects of construction on stream environments - EPB report Snow roads, bridges; startup and shutdown dates; time needed to shutdown a spread; climate Snow roads - proper construction and use; seismic lines - construction, impacts
109	16595 16705-07	Jan. 14		Wilimovsky Templeton		Auditor body should exist at least during the construction & early operation phase Construction specifications
111	16932-35	Jan. 16		Bergerud	CARC	Impact of activities on Porcupine herd; crossing line during construction
C-24	2418-20 2438-43	Aug. 23	TL NB	Hushion Hushion	Foothills	Foothills plans re pipe size, production of pipe; route and facilities, relative borrow requirements; jobs, construction camps, training programs Foothills construction and project plans with particular emphasis on aspects affecting the Nahanni Butte region re employment, use of Fort Simpson
C-25	2473-76 2491	Sept. 8	FS	Workman Rutherford	CAGPL Foothills	Pipeline design re avoidance of environmental damage Pressures re construction of pipeline
C-26	2615-19	Sept. 9		Workman Ellwood	Foothills	Pipeline re size, refrigeration of gas, burial, compressor stations; schedule re borrow sources, access roads, clearing of line, laying of pipe in ground
C-30	2908-10	Oct. 6	PP	Mirosh	Foothills	Training programs re construction; timing of peak labour demands; railway, highway utilization
C-33	3115-16	Oct. 9	FS	Mirosh		Yearly construction, employment opportunities
C-34	3300-01	Oct. 15	YK	Aylogt Berger	Citizen	Pipeline problems fixed to native satisfaction
C-35	3390-91	Oct. 22	LI	Littledale	Foothills	Project size, use of local manpower
112	17093	Jan. 20	IN	Bliss	GPC-D	Gas plants, gathering line facilities, avoidance of some vegetation types
131	19933-36 19941-43 19953-54	Mar. 17	YK	Williams Gibbs Williams Williams	CAGPL Foothills	North Slope, winter work conditions, minimum working temperatures, lighting Effects of cold on workers River crossing techniques, cross-Delta route
132	20078-82 20147	Mar. 18		Williams Williams		Winter construction feasibility, Shallow Bay, Hare Indian, Willow Lake River crossings, difficulties Niglintgak supply lateral built by different crew than mainline
133	20170	Mar. 23		Bayly	COPE/ITC	Different construction methods to allow for bank erosion; west side, Shallow Bay
134	20208-11	Mar. 24		Environmental Panel	CAGPL	Erosion prevention techniques, west side, Shallow Bay crossing

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135	20576	Mar. 25	YK	Sprague	MVPI	Impact of construction activities on water quality
136	20660-61 20709	Mar. 26		Sprague Peet	MVPI	Water quality problems on Ontario construction project Possible impact on fisheries
C-52	5235	May 13	CAL	Poyen	Citizen	Considerations in planning
C-55	5877-78	May 18	EDM	R. Steele	Citizen	Building conditions in the north; employment of northerners
159	24373-75	July 7	YK	Lutes	Foothills	Foothills witnesses, evidence on amendments to application filed; differences with CAGPL re winter construction schedule
161	24856-58	July 12		Trusty	CAGPL	Possibility for need for more staff than estimated
174	27194-202	Aug. 20	YK	Blair	Foothills	Schedule of Foothills' construction plans not changed; start-up periods between Alcan Highway line and Mackenzie Valley line
178	27580-87 27603-04	Aug. 26		Merrett Merrett	MVPI	Effects of changing scheduling Constraints on building, changing of scheduling, optimal use of timing
180	27836-39 27956-61 28012-13	Sept. 7		Hodson Nessel Berger	MVPI MVPI	Pipeline construction, new sector, major force in Canada, interdependent units, specialized equipment; 1950's construction done by American contractors, training Canadians in pipeline construction; decline in pipeline construction lately Gulf Oil, Coppermine and Canmar projects accommodated native lifestyles; two winters and one summer of laying pipe; seven-day pipeline operation; ability of pipeliners to work long periods Disagreement between CAGPL and Foothills over construction start-up date
190	29588-91 29630-33 29685-87	Sept. 23		Ganske Feilder Roska Fergusson	NWT/AM NWT/AM NWT/AM	Suggestion that committee be formed to assign priorities for construction, equipment and supplies; completion of community projects before pipeline construction begins Lead time required to prepare communities for development; time needed to complete transportation requirements Lead time needed to prepare Hay River for pipeline development
196	30831-37	Oct. 12	YK	MacLeod	CARC	Pipeline construction water uses requiring a water licence: river and stream crossings; ditch-flooding; docks and dredging operations; field pipe testing; building snow and ice roads; diversion diking; factors in reviewing water uses associated with pipeline

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XIXA	2247-50	Mar. 17	YK	Clark	CAGPL	Geotechnical control/supervision during construction; monitoring of field modifications
XXVIII	3484	Apr. 11		Clark		re: culvert size
XXIX	3622-31 3680 3696	Apr. 14		Clark Hardy Reid Furcell	 CAGPL CAGPL	Supervision and control - Design Change Manuel, design monitoring group Device to detect construction defects Surveillance to prevent external damage and corrosion
XXXIII	4281-83	Apr. 21		Dau	CAGPL	Control, Applicant's personnel, camp standards
XXXIV	4467	Apr. 22		Veale	CYI	Recommendations, supervision, coastal slope of Yukon
XXXV	4641-43	Apr. 23		Dau		Project control, work stoppage
XXXIX	5162	May 15		Dau		Monitors work for owner - priority of environmental protection
43	5590-91	May 22		Horte	CAGPL	Control mechanisms

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44	5736-56	May 23	YK	Bell	NWT IB/MA	Supervision to meet parameters involved in construction
46	6035-36	June 2		Templeton	EPB	Environmental consultants, government or independent board
48	6334-44	June 4		Gourdeau	EPB	Authority to make decisions, enforcement; recommendation
	5345-66			Gourdeau		Government inspection agency; recommendation
50	6704-19	June 6		Horte		Construction management, CAGPL in control
58	8150-1	Aug. 20		Blair	Foothills	Inspections of all operations dealing with pipeline
	8246-9			Blair		Number of supervisory staff; responsibilities
63	9013-14	Sept. 17		Lazerte	Foothills	Numbers included in Foothills figures for pipeline construction camps, exact figures to be given by construction panel
65	9560	Sept. 19		Davison	Foothills	Manual re drainage & erosion control
69	10461-77	Sept. 25		Owen	MVPI	Land use permits; inspection of operations; Fort Liard operations and services crews; operation of equipment; construction inspection re: welding and pipe laying
	10484-85			Owen		Land use permits; R. M.O. inspectors, Fort Liard inspector; siltation of Fisherman Lake; erosion
70	10507	Sept. 26		Owen		Westcoast operations re: Pointed Mountain line; care in construction
	10522			Owen		Westcoast officials, re: hot gas pipeline through permafrost area
	10543-45			Longlitz	MVPI	Negligence re: operation of vehicles; keeping to established access roadways
	10563			Longlitz		Negligence in operation of vehicles; inexperience in operation
71	10613-88	Oct. 14		Bayly Longlitz	COPF/ITC	Monitoring and inspection of construction; land use permits and regulations; withdrawal of permits; prosecution of permittees; interest of other departments and community input; withdrawal time re snow road use, construction shut down
72	10698-99	Oct. 15		Bayly Longlitz		Inspection of construction sites; reports filed; corrective measures; legal council
83	12489-91	Nov. 7		Berger McCart Hemstock	CAGPL CAGPL	Power of environmental inspectors, gravel mining, North Slope rivers
88	13211-23	Nov. 17		Bouckhout	Foothills	Environmental inspectors, selection, powers
	13285-90			Reeves Bouckhout	Foothills	Archaeological monitors during construction
90	13590-91	Nov. 19		Hemstock Dabbs	CAGPL	Inspection, snow roads; monitoring of caribou trampling, right-of-way revegetation
91	13820	Nov. 20		McCart	CAGPL	Environmental inspectors at river crossings
97	14804-05	Dec. 5		Gunn	CAGPL	Enforcement of environmental recommendations, training of personnel
	14820-21			Jakimchuk	CAGPL	Will enforce environmental regulations
99	15152	Dec. 9		Environmental panel	Foothills	Ability to control project
100	15189-94	Dec. 10		Bouckhout		Organization, decision making process; regulatory agencies
	15251-53			Bouckhout		Environmental, selection, qualities needed; manual to work from
105	16017-23	Dec. 17		Walker Stein	CARC CARC	Monitoring surveillance, recommendations, guidelines; final design assessment from surveillances
106	16170-72	Dec. 18		Lent	CARC	Fish and wildlife biologists re: advisory role; filed personnel re: more authority delegated; effect of indecision on personal biases; protection of employees re: reporting of environmental results
	16174-75			Lent		Problems of enforcement re: illegal feeding of animals; identification badge not required re: sub-contractors
107	16325-27	Jan. 12		Templeton	EPB	Environmental inspectors (27) for Arctic Gas; range of expertise; head office back up

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C-39	3721-	Feb.18	IN	Hill	Citizen	Mackenzie Valley Pipeline Authority policing function
116	17654-	Jan.24		Rempel	GPC-E-I	Monitoring and surveillance network planned by producers
131	19978-81	Mar.17	YK	Williams	CAGPL	NES will not act as construction management personnel but may supply inspection services
135	20585-87	Mar.25		Sprague	MVPI	Environmental inspectors should be independent from government, industry, should report to public
136	20645-46 20654 20661-70	Mar.26		Sprague Sprague Sprague		Recommendations re environmental inspectors Environmental inspectors on-site Training environmental inspectors; independent group needed to inspect, monitor, audit construction, operation; size of inspection force
143	21726-29	Apr.14		Virtue Giroux	NORTRAN NORTRAN	Feasibility of training northerners for skilled and management positions
162	24992-93	July 13		Williams		To provide information on numbers of inspection personnel employed on any given spread
193	30070-71 30126-42	Oct. 5		Templeton Doyle	EPB EPB	Tasks, obstacles facing inspectors Effective environmental inspection must be preceded by initial and final design review and approval, preparation of guidelines, codes; importance of having inspectors on site during facility, access route, borrow site surveys, investigations; estimated manpower requirements
	30147-52			Doyle	EPB	Field inspection force - site surveys to operations and maintenance phase
	30158			Doyle		Problems confronting inspection staff
	30246-47			Templeton	EPB	Environmental Auditor Group - construction inspection, reporting to public, contact with Agency
194	30311-15 30341-44	Oct.6		Doyle Doyle		Inspection staff requirement Inspectors should have separate quarters, be assured logistic mobility
195A	30691-92	Oct.7		Fowler	CAGPL	Impact of extreme temperatures on project control

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XXIV	2832-35	Apr.7	YK	Williams	CAGPL	Blasting winter, excavation summer, construction stop if caribou migrating
	2875			Clark	CAGPL	River crossings - winter and summer
XXV	3019-24 3043-47	Apr.8		Hollingshead Hollingshead	CAGPL	Training works, heavy equipment - winter construction Winter ditching and repair
XXVIII	3491-93	Apr.11		Clark		Pipeline, culverts
XXX	3747	Apr.15		McMullen	CAGPL	Communications
	3961	Apr.16		Reid	CAGPL	Testing during winter construction season
XXXII	4051 4152-53	Apr.18		Holmberg Holmberg	CAGPL	Sufficient, quality pipe to meet schedule Rate of welds under automatic system
XXXIII	4232-47 4248-52 4273 4283-88 4292-93 4368-69	Apr.21		Dau Dau O'Rourke O'Rourke Berger Dau	CAGPL CAGPL	One year delay since Application filed Tonnage moved north of 60° beginning '77-'78 Add 24 months to original 9 for pipe transportation Construction restricted to winter Equipment first winter pipeline construction '76-'77 Compressor stations, winter and summer
XXXIV	4395-4408 4422-27 4442-45 4468 4476 4486-87	Apr.22		Veale Dau Dau Williams Dau Williams	CYI	Length of season, environmental concerns Spread camp C, third summer Gemini North input Completion before caribou migration Aircraft landings, compressor stations Difficulties in constructing snow roads

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XXXV	4583	Apr. 23	YK	Dau	CAGPL	Double jointing to be done in summer or winter
	4610-11			Williams		Time to test machines before construction begins
	4632-35			O'Rourke	CAGPL	Lead time required in barging
XXXVII	4706	May 13		Genest	CAGPL	Typical spreads, activity schedules, manpower requirements
	4737-39		Dau	CAGPL	Problems with white-out	
	4745		Dau		Crossing Shallow Bay	
	4749-51		Dau		Major river crossings during summer	
	4753		Dau		Summer construction, off-shore route	
	4763-65		Dau		Rate of work, Yukon Coastal Plain	
	4776-80		Bayly	COPE/ITC	Lag in schedule, extra personnel	
XXXVIII	4872-73	May 14		Lucas	CARC	Application for regulatory approvals
	4897		Lucas		Turn outs/traffic lanes	
	4899-4901		Williams	CAGPL	Great Bear River crossing	
	4904-13		Lucas		Second construction season	
	4914-18		Lucas		Adverse weather conditions	
	4923-41		Lucas		Alyeska construction experience	
	4955-59		Goudge	MVPI	Location survey	
	4962-64		Williams		Clearing, winter time	
	4975-79		Dau		Winter/summer clearing	
	4991-96		Goudge	MVPI	Snowroads, first on winter schedules	
XXXIX	5049-51		May 15		Williams	
	5058	Dau			Change due to movement of stockpile sites	
	5059-62	Dau			Additional men and equipment to accelerate schedule	
	5155-78	Harlan		CAGPL	Under/over estimation of spreads - the effect	
42	5568-70	May 21			Horte	CAGPL
43	5576-78	May 22		Williams		Looping seasons, movement
45	5923-25	May 24		Bayly		Looping program
	5940-41			Horte		Would not have single supplier of pipe
	5955-56			Horte		Start up time differs from Prudhoe Bay, Mackenzie Delta
	5962			Bayly	COPE/ITC	Regulatory approvals, beginning of construction
	5993			Horte	CAGPL	Regulatory approvals
46	6130-40	June 2		Bliss	EPB	Difficult to maintain schedule using winter roads - disturb vegetation
50	6653-62	June 6		Marshall	CAGPL	No reports; effect on contractors
	6705		Scott	MVPI		
C-II	89-90	Apr. 2	AK	Sittichinli	Citizen	Study by construction management group
C-4	182-183	May 28	HR	Williams	CAGPL	Winter projects
C-5	442-446	May 29		Berger		Spreads, seasons; general outline
C-13	1200-1	July 10	FMcP	Carter	CAGPL	Largest single undertaking, private enterprise
56	7804-8	Aug. 18	YK	Horte		Caribou areas, work done in winters
	7872-5		Horte		Tentative commencement and completion dates	
					Costs, additional construction periods; gas revenues	
58	8160-1	Aug. 20		Blair	Foothills	Foothills intention for looping
51	6791-96	Aug. 11	WH	Hemstock	CAGPL	Construction activities compared route by route; winter and summer construction; facilities
	6861		Dau	CAGPL	Construction commencement date; cost of delays	
52	6910	Aug. 12		Dau	CAGPL	Projections for gas and oil pipeline construction
	7012-14		Dau		Snow and access roads	

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53	7098 7104-06 7159 7214-20	Aug. 13	WH	Banfield Dau Clark Sprecker	CAGPL CAGPL CYI	Interval requisite before looping Scheduling of prime and alternative routes Summer construction in Brooks range Movement of workers in Alyeska camps
54	7474 7507 7541	Aug. 14		Weedon Weedon Parker	CARC CARC	Availability of water needed in winter construction Off-shore corridor; winter construction of land facilities when birds are not around; borrow and sand extracting done during summer and fall Alyeska - haul roads, camps and support facilities constructed first; great gravel demand
C-22	2239-48 2260-64 2286-87	Aug. 11		D. Lloyd R. McRobb A. Netherton	F.F. Slaney Citizen Citizen	Rapidity of construction; need for planning Five year time frame to lessen impact Impact of intense 3 year period
61	8603 8639-41	Sept. 15	YK	H.L. Stevens Lazerte	U.S.W.A. Foothills	Need for a longer construction period to reduce employment slump after pipeline completion Start-up date; transportation of materials; completion of compressor stations, chilling temperatures and locations; horse power, flow by dates and completion of compressor stations
61-A	8714-18	Sept. 15		Bauer	Foothills	Winter construction; ditching; ditch exposure, pipe bending; ditch contour, padding and backfill; borrow and excavated materials, erosion control, revegetation, replacement of top soils; permit crossing requirements; slope stabilization
63	9014-19	Sept. 17		Lazerte		Interrelationship between pipeline & compressor station construction; schedule challenged by Marshall
65	9596 9610 9616 9630-38	Sept. 19		Mirosh Bauer Kosten Jarvis	Foothills Foothills Foothills	Differences in CAGPL & Foothills predictions of spread progress Clearing & grading operations to precede first year of construction Distribution of spreads; clearing of right-of-way to precede construction; southern-most spread may commence in preceding year; borrow operations involving large volumes to be carried out in year preceding construction Snow road timeframe
66	9648-71 9701-43 9749-52 9765-71 9784-9801	Sept. 22		Kosten Mirosh Kosten Jarvis Mirosh Kosten	Foothills Foothills	Commencement of pipe laying; clearing in advance of construction, preparatory work, mobilization, demobilization, pipe stringing; Christmas break; support work Progress per spread; productivity contrast between north & south ends; winter roads of frozen soil; snow availability; preparatory work; effect of darkness; starting date Timing & size of grading & clearing crews Darkness prevents construction commencing in December
67	9844-53 9855-73 9876-99 9908 9930-45	Sept. 23		Mirosh Jarvis Jarvis Kosten Bauer		Shut down of construction in terms of climate & ground conditions; Christmas break; snow roads Clearing operations; slope stabilization; construction of pads, snow roads Planning of snowroad construction; criteria for shut-off dates; ice bridges Shortening & expansion of construction schedule Question of swapping shifts for unskilled labourers Scheduling for clearing

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67	9960-67	Sept. 23	YK	Mirosh	Foothills	Direction of work and link up of spreads; summer construction; concrete weight construction; rock excavation;
	9977-81			Mirosh		Revegetation and restoration schedule
	1005-21			Mirosh		Movement of materials, tonnage, estimates of barging
68	10128-70	Sept. 24		Dau		
				Williams	CAGPL	Contractors' estimates of spread productivity
	10179-82			Dau		
				Williams	CAGPL CACPL	Contractors' estimates of spread productivity; comparison of contractors' and NES estimates
70	10556-63	Sept. 26		Longlitz	MVPI	Shut down dates of snow roads, winter construction; impact of extended construction
71	10606-11	Oct. 14		Templeton	EPB	
				Longlitz		Use of snow roads; break-up and return of equipment for summer storage and repair
	10616-17			Bayly	COPE/ITC	Movement of vehicles and equipment; notification to DIAND; monitoring the project
				Longlitz		
	10653-58			Bayly		
				Longlitz		Setting and shutting down of construction operations; variation from year to year; communication of finishing date; inspection of the site
72	10729-31	Oct. 15		Marshall	CAGPL	Careful scheduling to prolong shut down date of snow roads; snow making operations
				Longlitz		
	10738-41			Goudge	MVPI	Shut down dates; notice to vacate; field inspection; remaining snow cover
				Longlitz		
	10805-12			Adam	EPB	Snow roads; shut down, start-up dates; all terrain vehicles
74	10972-11013	Oct. 17		Williams		Snow roads; startup and shut down dates; snow cover; all terrain vehicles and equipment
75	11030	Oct. 20		Parker	CARC	Thin work pads when seasonal conditions permit; winter construction
				Weedon	CARC	
	11075			Weedon	CARC	Construction plans in Alaska perhaps some five years away; lead time for state planning to be conducted
76	11194-96	Oct. 21		Parker		Completion of Alyeska
				Weedon		
	11228-51			Parker	CARC	Work force, completion schedules; winter and summer employment force
				Weedon	CARC	
	11255-61			Parker		Construction, impact on caribou, calving periods
				Weedon		
77	11438-40			Rutter	CARC	Winter construction, ice thickness; equipment losses; construction hazards
79	11695-701	Nov. 3		Minning	CAGPL	Gravel stockpiling in windrows
				McCart	CAGPL	Timing essential to minimize impact of sedimentation
	11705			McCart	CAGPL	
	11725-26			Dabbs	CAGPL	Seed and fertilizer to be applied in wintertime
80	11898-901	Nov. 4		Williams	CAGPL	Use of snow roads to transport equipment to borrow sites in advance at active flood plains
				Williams		
	11938-46			Hemstock	CAGPL	Timing of clearing operations
				Williams		
82	12140-45	Nov. 6		Dabbs		Seeding at end of winter construction season, during clean up
				Dabbs		
	12202	Nov. 6		Hemstock		"Absence of wildlife" during winter construction
83	12376-77	Nov. 7		Scott	MVPI	Construction of Thunder River facilities requiring gravel
				Williams		
	12401-02			Williams		All-weather road, borrow pits, stockpiling, Thunder River
				Williams		
	12432-39			Scott	CAGPL	Gravel mining, active flood plain, Spread "C"
				Environmental Panel		
84	12575-76			McCart	CAGPL	Culvert installation when minimal sedimentation
85	12655-57			McCart		Winter construction, North Slope, critical river crossings
86	12992-13508	Nov. 13		Gibbs	Foothills	Northern and Fort Simpson spreads, artificial lights, production rates, down time; snow roads
				Williams		

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87	13088-90	Nov. 14	YK	Bouckhout Reeves	Foothills Foothills	Archaeological surveying before construction
	13183-60			Drew	Foothills	Terrain sensitivity rating as guide
88	13265-72	Nov. 17		Reeves		Timing archaeological excavations around construction
	13273-77			Berger		NWT Chamber of Commerce request to increase construction to four years
	13282-83			Bouckhout Reeves		Rescheduling to accommodate archaeological work
	13305-12			Bouckhout Claridge	Foothills	Crossing rivers in winter
89	13426-30	Nov. 18		Gunn	CAGPL	To minimize disturbance to birds
	13459-60			Jakimchuk	CAGPL	Avoidance of Dall sheep lambing; near winter range, early winter
90	13632-33	Nov. 19		Dabbs	CAGPL	Aerial seeding, revegetation
91	13864-65	Nov. 20		Berger	CAGPL	Winter construction Inuvik area; Canol pipeline, report
	13890-92			Gibbs Dau	Foothills CAGPL	Construction dates by year
92	14027-30	Nov. 21		Hemstock	CAGPL	Can Alyeska data (summer) be applied to Mackenzie Valley (winter) pipeline construction; better to study Canadian material
93	14078	Dec. 1		McCart	CAGPL	Major blasting of Great Bear River, pipeline ditching
	14094-95			McCart		Classification of river characteristics; winter construction
	14159			Hemstock Gunn		Delays in construction should equipment and materials fail to reach destination points
	14189-90			Gunn		Disturbance and possible loss of a hatch if construction occurs during nesting period
94	14197-98	Dec. 2		Scott Marshall	MVPI CAGPL	Under the ice blasting, Great Bear River
	14242-44			Berger Hemstock	CAGPL	Work shutdowns, critical periods
	14246-359			Environmental Panel	CAGPL	Impact of activity on caribou migration; disturbance noise; population dynamics, wintering and calving ranges; Canning River - summer construction
95	14369-70	Dec. 3		Jakimchuk	CAGPL	Winter construction, animal denning; interaction; bears
	14311-37			Hemstock Banfield	CAGPL	Critical path method; environmental factors and concerns; equipment availability; work stoppage; regulatory and management personnel; caribou migrations.
96	14544-47	Dec. 4		Banfield Jakimchuk		Harrassment and disturbance of musk-oxen, caribou on the North Slope; equipment, activities, winter construction
	14586-628			Jakimchuk		Interaction between construction and migration of caribou; snow roads, all weather roads; spreads; movement of vehicles; route selection; Dempster Highway
	14631-44			Hemstock Jakimchuk		Winter construction to take place between the fall and spring migrations; variability in migration timing; interaction with spreads B and C on the Interior Route; work stoppages; deflection of migrations; snow conditions; study
	14671-78			Jakimchuk	CAGPL	Caribou/pipeline interaction; snow fences; caribou wintering in the proposed corridor areas; spring migration timing
	14685-86			Jakimchuk		Restrict activities during calving;
97	14723-34	Dec. 5		Bell Jakimchuk	NWT IB/MA	To reduce impact on moose
	14794-820			Gunn Jakimchuk	CAGPL	Restricted access periods, Yukon coastal spits, barrier beaches, Mackenzie River islands, North Slope willow thickets; aircraft overflight restrictions

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98	14867-71	Dec. 8	YK	Gunn	CAGPL	Winter construction alleviates some problems in critical bird areas
	14893			Gunn		Winter construction causing siltation in North Slope ponds
	14904-11			Gunn		Use of hovercraft in critical times for birds; winter construction less impact on birds; timing of dredging in Shallow Bay
99	15025-28	Dec. 9		Jakimchuk		Work shut down for migrating caribou; no work during calving; interaction with overwintering caribou
	15134-35			Whitney Bouckhout	Foothills Foothills	To aid moose movements, Mackenzie River islands
	15139-85			Environmental Panel	Foothills	Possibility of building pipeline according to plan; laterals
100	15216	Dec. 10		Hayden	Foothills	Locating fish overwintering areas to be avoided
101	15468-69	Dec. 11		Zoltai	CARC	Fire risks during summer work
102	15704-05	Dec. 12		Novakowski	CARC	Changing muskrat season to coincide more closely with off-season
103	15724	Dec. 15		Stein	CARC	Scheduling consideration - fish egg incubation, overwintering sites
	15757			Steigenberger	CARC	Fish spawning ground, overwintering area considerations
	15896-99			Stein		Proposed crossing dredging at Shallow Bay re: fish migration factors
104	15920-22	Dec. 16		Walker	CARC	Further fisheries impact studies
105	15995-96	Dec. 17		Millen	CARC	Concern re: open streams in October; Foothills plans to construct roads in November, use in January
	16009			Walker		Winter construction, summer staging and support activity
	16013			Walker		One to three-year period required to complete knowledge gaps
	16020			Stein		Significance of timing re: summer construction rather than winter
	16080-81			Stiegenberger		Difficulty of developing standards for construction; levels of sedimentation during winter, ground water sources for fish overwintering; summer preparation of fish for winter
	16100			Stein		Summer stream crossings re: abundance of species, habitat, migration routes and times, hydrological effects
	16111-17			Millen Steigenberger		Removal of ice bridges re: timing critical; effect of early or late removal; minimization of disturbances to aquatic resources
	16141-46			Lent	CARC	Fiction re: tight construction schedules; overlap of calving; period with demobilization phase, critical; importance of vegetation changes to caribou, implication of delay re: construction, insects, effects of man-made change on caribou
106	16158-70	Dec. 18		Lent		Champion and Carson report re: inefficiency of winter construction on Alyeska, delays and environmental impacts
	16205-06			Calef	CARC	Canning River Valley "year-around activities" re: interference with seasonal movements of caribou
	16227-28			Calef	CARC	Calving grounds; construction of compressor stations re: presence of caribou; hunting areas of villages
107	16376	Jan. 12		Templeton	EPB	Work stoppages due to caribou migration, environmental aspects
108	16540-42	Jan. 13		Berger		Timing of looping procedures, Prudhoe Bay leg; oil pipelines
109	16606-11	Jan. 14		Templeton Gourdeau Craik	EPB EPB	Cross delta proposal - summer construction, river crossings, Shallow Bay, training programs and worker control
110	16739	Jan. 15		Hollingworth	Foothills	Arctic Gas construction plan re: response at NEB hearings, Jan. 13, 1976
	16898-906			Lent	CARC	Recommendations to the Inquiry; prevention of slippage in construction schedule; winter and summer construction-impact on caribou; route preferences
C-24	2428-33	Aug. 23	TL	Hushion Rowe	Foothills CAGPL	Desired completion dates by NEB, and Canadian government; settlement of native land claims

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C-25	2483 2488-511	Sept.8		Erion Dixon Erion Rutherford Black	NWT CC NWT CC Foothills Citizen	Four year construction schedule Four year scheduling concept - economic aspects, balance of payments; training programs required prior to construction, land claims, lead time re adjustment of local government, economics, social considerations, water and sewer facilities, land use planning re pipeline facilities, housing, education
C-27	2767-68	Sept.10		Rutherford		Delay re Ottawa hearings; land claim settled within time framework
C-30	2895-97 2909-10	Oct.6	PP	Mirosh Mirosh	Foothills	Community feeder lateral Labour demand, railway, highway utilization
	2936-37			Mirosh	Foothills	Pine Point feeder line
C-34	3353-54	Oct. 16	YK	Castille	Citizen	Impact of stopping construction to settle land claims
C-37	3568-69	Feb.10	IN	Workman	CAGPL	Scheduling to minimize environmental disturbance
C-39	3726-27	Feb.18		Hill	Citizen	Construction timed to utilize northern business capabilities
112	17077- 17083-88	Jan.20		Berger Marshall Bayly Bliss	CAGPL COPE/ITC GPC-D	Summer construction; shallow Bay crossing Summer disturbance of whales, Delta area; research on spruce regeneration before cutting for construction pilings
114	17296-97 17305-06 17437-39	Jan.22		Mainland Mainland Faulkner	GPC-D-I GPC-D-S	Taglu gas field Taglu gas field, plant Niglintgak gas field, well sites, permanent facilities, gas plant, gathering lines
115	17503-05 17508-11 17549 - 17585-89	Jan.23		Faulkner Faulkner Stamberg Stamberg Scott	GPC-D-S GPC-D-S GPC-D-G GPC-D-G	Niglintgak gas field Niglintgak, schedule relies on land tenure agreement date Parsons Lake gas field, year-round Parsons Lake, construction of gas plant using modules; present scheduling relies on approval of gas pipeline in fall 1976
116	17627-28	Jan.24		Stamberg		Winter construction imposed by government, construction from prepared pad
122	18645 18690-91	Feb. 11		Stein Goudge Sergeant	COPE/ITC MVPI COPE/ITC	Scheduling of construction in delta re fish movements Scheduling of summer construction in delta
130	19771-73 19797-802 19838	Mar. 16	YK	Williams Williams Williams	CAGPL	Cross-Delta route, Niglintgak and Parsons Lake supply laterals, scheduling changes; facilities at Axe Point Areas of summer work, areas of winter work; summer construction restrictions; construction of crossings; activities carried on in winter and summer Mobilization, preparatory work to be done before
131	19889 19917-28 19936-39 19947-52 19958-59 19969-70	Mar.17		Williams Williams Gibbs Williams Williams Williams Berger	Foothills	Dredging, Shallow Bay crossing Relying on early snow fall or snow-making for early start to construction, Delta and North Slope; Alyeska construction scheduling Summer versus winter construction, North Slope, Richards Island Possible problems, North Slope winter construction; remedial action to make up for falling behind schedule; summer construction Time needed to pull in pipe across backfill trench, Shallow Bay Winter versus summer construction, Prudhoe Bay Supply Line

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131	19981-94	Mar.17	YK	Williams	CAGPL	Summer construction, scheduling, of channel crossings, Delta
132	20080-84	Mar.18		Williams		Winter construction of river crossings, problems; Shallow Bay crossing, time needed
	20149-50			Hollingshead	CAGPL	Kumak Channel crossing, Niglintgak supply lateral
133	20128	Mar.23		Williams	CAGPL	Cross-Delta route, land portion, to be constructed in winter
	20152			McCart	CAGPL	Shutdown, rescheduling, of Delta river crossings during fish migration
	20157			Webb	CAGPL	To minimize impact on whales, Shallow Bay crossing
	20162			Rowe		To migrate impact of crossing Delta route
134	20208-10	Mar.24		Environmental Panel	CAGPL	Shallow Bay crossing, west side
	20250			Berger		Shallow Bay crossing, interference with whales
	20275-79			Gunn Webb	CAGPL	Constructing Shallow Bay crossing in two summers, possible impact, shutting down if necessary
	20306			McCart	CAGPL	Possible rescheduling of river crossings to minimize impact on fish overwintering sites
	20320-28			Webb		Construction conflicting with whale presence, Shallow Bay; boat traffic as disturbance
	20344-47			Jakimchuk Gunn McCart	CAGPL	Approval of cross-Delta and coastal routes rests on use of winter construction, acceptability of summer construction
	20387-89			Webb		Timing Shallow Bay crossing to minimize whale impact; shutting down
135	20457-75	Mar.25		McCart	CAGPL	Impact of summer river crossings on fish, cross-Delta route; impact of winter construction on overwintering areas
	20510			Gunn	CAGPL	Kumak channel crossing, Niglintgak supply lateral, impact of summer construction on birds
C-52	5376-80	May 13	CAL	J. Ryan	Citizen	Winter operations, specialized equipment
C-53	5568-70	May 14		Blair	Foothills	Dates when work should begin and desirable completion dates
C-55	5785-87	May 18	EDM	Berger J. Barry	Citizen	Foothills, CAGPL - different winter time plans
C-56	6039-42	May 19	REG	P. Black	Citizen	Should be postponed, late 1980's, possible better future conditions
C-60	6619-20	May 27	TOR	E. Burton	Citizen	Effects of delay on gas supply
	6787-89			H. Mitchell	Citizen	No construction until technology has been tested
C-64	7275-76	June 3	OTT	Hollingworth	Foothills	Foothills change to summer construction for northern-most 50 miles
C-67	7743	June 8	HAL	Ellwood	Foothills	Summer construction of northern 50 miles
161	24798-99	July 12	YK	Hollands	CAGPL	Commencement in December to Christmas break; from January to April
166	25707-08	July 20		Burrell	Foothills	Date when Foothills would commence construction, 1978, question as to whether this allows sufficient time to settle land claims
C-68	7874-75	July 16	FP	Ellwood		Lateral lines, length of time necessary for logistics, preparation, construction
178	27580-87	Aug 26	YK	Merrett	MVPI	How time and man-months vary using different cases
	27649-52			Merrett Pritchard	MVPI	Stretch out of period benefit community, employment
182	28248	Sept 9		Forth	MHA/NWT	Timetable is too short for people to adjust to speed of change
193	30090	Oct 5		Hernandez	EPB	Contact with reindeer herdsman should be maintained to prevent conflicts between herd, construction activities
	30113-47			Doyle	EPB	Construction schedule categorized into survey and site investigations, clear grade and support construction, construction and mobilization, and restoration and revegetation - CAGPL, Foothills projects discussed

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194	30317-20 30445	Oct. 6	YK	Doyle Wylie	EPB MVPI	Foothills, CAGPL scheduled use of borrow materials Oil pipeline construction possible in summer and winter
195	30456-58 30497-522 30568-72 30582-83	Oct. 7		Mirosh Mirosh Kosten Berger Mirosh	Foot hills Foothills	Spread I construction schedule amendment Feasibility of winter construction on North Slope, calendar day productivity losses Summary of CAGPL, Foothills positions re winter construction, start-up dates for snow road construction Single construction spread to work one year in advance of mainline construction
195A --	30681-88	Oct. 7		Fowler Rymes Daniels	CAGPL CAGPL CAGPL	Influence of climate on construction, shut-down time
195A	30697 30738-59	Oct. 7	YK	Dau Dau	CAGPL	Arctic coast construction in more than one winter season Methodology employed in calculating winter construction season on Arctic coast, sequence of activities
201	31782-98 31825-29	Nov. 16		Marshall Gibbs	CAGPL Foothills	Ability of men, equipment to perform under conditions of extreme temperature, wind; contingency plans for North Slope CAGPL North Slope construction plan based on equipment not yet produced or tested - ability to maintain productivity questionable
202	32051-54	Nov. 17		Anthony	CARC	Recommendations - North Slope construction
203	32186-87	Nov. 18		Veale	CYI	Winter construction, problems

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XXXIII	4238-47 4271-72 4284-85 4294-95	Apr. 21	YK	Dau O'Rourke Dau Dau	CAGPL CAGPL	Construction mileage and seasons 800 men and 80 tons supplies/spread/month Construction labour requirements - 9 spreads Equipment available = 7 construction spreads
XXXIV	4406-09 4419-32 4433-48 4449-58 4459-69 4470-71 4477-82 4491 4534-37	Apr. 22		Dau Dau Dau Williams Dau Dau Dau Dau O'Rourke	CAGPL	Daily, monthly working rates; hours of work; possible strikes Northern Yukon Productivity Spread camps C and E Environmental, engineering inspection; project managers Crew reaction to caribou migration Regulations on movement of workers Location of camps, travel requirements Off-loading, wharf facilities
XXXV	4550-60 4567/8 4585-90 4602-04 4629-33	Apr. 23		Dau Williams Dau Williams O'Rourke	CAGPL	Spread B, 3rd winter, Alaska Typical spreads where water available for snow 7 Construction equipment spreads 15 ditchers/spread north of 60° Movement of spreads - barge or truck
XXXVII	4706 4739-41 4742-43 4751-52 4752-55 4776-80	May 13		Genest Williams Bayly Dau Bayly Williams	CAGPL COPE/ITC	Typical spreads, activity schedules and manpower requirements Spare machinery Personnel for Shingle Point Camp Shallow Bay Possible sites for camps, off shore routes Construction camps - accommodation for extra personnel
XXXVIII	4904-05 4913-22 4960-61	May 14		Lucas Lucas Williams	CARC CAGPL	Spread C, Fort Norman area Activities on Spread C Number of location survey crews

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XXXVIII	4967	May 14	YK	Dau	CAGPL	Clearing crews, housing
XXXIX	5013-16	May 15		Williams	CAGPL	Camp at Swimming Point - construction of line
	5055			Dau		Number of STOL craft/spread
	5061-62			Dau		Borrow equipment if one spread needs extra
	5155-78			Harlan	CAGPL	Effect on scheduling of under/over estimation of spreads
43	5576-78	May 22		Williams		Number of spreads, manpower requirements, looping
44	5791-94	May 23		Bell	NWT IB/MA	Construction and operating jobs; number of workers
46	6113-15	June 2		Adam	EPB	Probability of spread completion using winter roads
50	6646-62	June 6		Marshall	CAGPL	Equipment requirements
	6667-68			Horte	CAGPL	Man months of labour force
C-4	182-183	May 28	HR	Williams		Scheduling; general outline
58	8150-54	Aug. 20	YK	Blair	Foothills	Contingency plans, pipeline emergencies, line breaks, repairs
51	6791-96	Aug. 11	WH	Hemstock	CAGPL	Construction activities, comparison between alternative routes; winter and summer construction
53	7104-06	Aug. 13		Dau		Requirements of alternative corridors
C-22	2244-48	Aug. 11		Rutherford Carter	Foothills CAGPL	Progress of spreads
65	9593	Sept. 19	YK	Berger		CAGPL to produce numbers of spreads and workers north of 60°
	9596			Mirosh	Foothills	Difference between Foothills and CAGPL calculations of spread progress
	9616			Kosten	Foothills	Numbers required; scheduling
66	9650-74	Sept. 22		Kosten	Foothills	Productivity estimates; labour force; Christmas break; top manpower requirements
	9701-43			Kosten Jarvis	Foothills	Productivity of spreads; effect of darkness; starting date
	9749-52			Mirosh	Foothills	Schedule & size of grading & clearing crews
	9784-9801					Climate conditions for shutdown; snow roads; productivity
67	9879-99	Sept. 23		Mirosh Kosten		Number of spreads required if schedule compressed or expanded
	9908			Kosten		Question of swing shifts for unskilled labourers
68	10128-70			Dau Williams	CAGPL CAGPL	Contractors' estimates of spread productivity
	10179-82			Dau Williams		Comparison of contractors' and NES estimates of spread productivity
71	10632	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Non-land use permits; cooperation with operators; information as to location and type of construction activities going on; intention to achieve a uniform pattern for all operations in the north
74	10987-11013	Oct. 17		Williams		Snow roads; shutdown and start up dates; right-of-way under use; impact; Big Delta
75	11095-97	Oct. 20		Parker Weedon	CARC CARC	Time of construction, length of construction; spread movements; welding procedures; flow of gas
76	11185-86	Oct. 21		Parker	CARC	Transportation, haul roads, impact of truck traffic between spreads; gravel needs; water needs
78	11582-85	Oct. 23		Roed	CARC	Edge of the shield route; number of construction spreads, distance between spreads; supply points; access
82	12193	Nov. 6		McCart	CAGPL	Water requirements for spreads along coastal route
83	12429-39	Nov. 7		Scott Environmental Panel	MVPI CAGPL	Scheduling of active flood plain gravel mining, Spread "C"
86	12992-13058	Nov. 13		Gibbs Williams	Foothills CAGPL	Northern and Fort Simpson spreads, production rates, artificial lighting, down time; snow roads

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88	13217-23	Nov. 17	YK	Bouckhout	Foothills	Environmental inspectors, powers
93	14090-92	Dec. 1		Hemstock McCart	CAGPL	Construction monitoring; number of environmental inspectors given the number of spreads
96	14621-28	Dec. 4		Jakimchuk	CAGPL	Barging, use of Dempster to supply equipment for the spreads along the interior route; interaction with caribou herd
	14631-44			Jakimchuk Hemstock		Caribou interaction with spreads B and C on the Interior Route; winter construction; variability in migration timing
97	14715	Dec.5		Marshall	CAGPL	Personnel movement by aircraft
	14816-20			Jakimchuk		Caribou free passage; site specific recommendations, mammals; monitoring, worker awareness
99	15101-03	Dec. 9		Scott		Relation of archaeological divisions to spreads; one archaeologist to each spread
130	19771-72	Mar. 16		Williams	CAGPL	Reduction of spreads needed due to building cross-Delta route
131	19872-75	Mar.17		Williams		Borrow requirements, spread "B", cross-Delta route
	19881-82			Williams Clark	CAGPL	Borrow requirements for roads spread "B", block valve, spread "E"
	19903			Williams		Manufactured snow required per spread reduced from 70 to 20 miles
	19923-24			Williams		Snow manufacturing equipment provided for each spread, snow made per spread
	19961			Williams		Gravel required for spread "B"
132	20152	Mar.18		Williams		Summer hand clearing of ROW spreads A,B,C
161	24790	July 12		Williams		Reduction in number by two due to adoption of Cross-Delta route
162	25001-04	July 13		Williams		Number of employees, typical spread; staff rotation
178	27579-81	Aug 26		Merrett	MVPT	Alternating numbers to change building period
	27603-04			Merrett		How adjustment of size and numbers affects time and efficiency
	27638-40			Merrett		Effects of changing numbers, question of technical possibility
195	30453-54	Oct.7		Mirosh	Foothills	Spread I construction schedule amendment

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XXXIII	4326-28	Apr. 21	YK	Dau	CAGPL	Transfer of location
XXXIV	4418-22	Apr. 22		Dau		Location on compressor station sites
	4436			Dau		Not on compressor station sites
	4449			Dau		At compressor stations
	4468			Veale	CYI	Komakuk Beach
	4478-79			Dau		Workers access to local communities
	4490-91			Williams	CAGPL	Movement to Komakuk Beach
XXXV	4551-60	Apr. 23		Dau		Camp movement, last winter of construction
XXXVII	4751-54	May 13		Dau		Compressor station CD-08, Shallow Bay
	4752-55			Bayly	COPE/ITC	Camps, off-shore route
XXXIX	5008-12	May 15		Williams		Moving without damage to vegetation during thaw
C-11	1010-11	July 8	FMcP	J. Kay	Citizen	Camp to be located at Destruction City
	1025-26			M. Firth	Citizen	Camp to be located on Rat River
C-13	1244	July 10		J. Martin	Citizen	Camp to be located at Fort McPherson, social problems
C-14	1296	July 11	OC	C. Charlie	Citizen	Concern that camp nearby may cause problems in O.C.

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C-16	1521-22	July 13	YK	A. Charlie	Citizen	Old Crow would like protection from people coming to town
	1540			Eckgrader	Citizen	Proximity to Old Crow; people coming into the community
	1577-78			H. Richter	Citizen	Restrictions on movement of personnel to neighbouring communities
C-18	1806	Aug. 5	FGH	A. Wilson	Citizen	Experience of camp-community access on other pipelines
C-19	1855-57	Aug. 6		Rowe Ellwood	CAGPL Foothills	Proximity to interaction with Fort Good Hope
C-21	2083-88A	Aug. 9	NW	Rowe Burrell	Foothills	Relation to Norman Wells
66	9672-74	Sept.22	YK	Mirosh	Foothills	Camps for workers at borrow sites, wharf sites etc.; locations away from work pads eg. Swimming Point
67	9961-62	Sept.23		Mirosh		Direction of work of spreads in relation to camps
81	12087	Nov.5		Minning Williams	CAGPL CAGPL	Removal of wastes to incinerators at construction camps
84	12562-71	Nov. 8		Anthony McCart Hemstock	CARC CAGPL CAGPL	Campsite location near water sources
	12593-12605			Bayly McCart Williams	COPE/ITC	Komakuk Beach site, water uses, snow roads
93	14085-88	Dec. 1		McCart		Location of facilities re domestic fishing sites
	14185-86			Hemstock		Access to nesting birds; camp regulations
96	14623-31	Dec. 4		Jakimchuk	CAGPL	Interaction between caribou and spread camp B and C; winter roads, access, Dempster Highway; construction scheduling
	14633			Hemstock		Specific cases; movement of spreads and camp if needed
	14643-44			Jakimchuk		Joining Spread Camp C and Old Crow to the Dempster as a temporary winter road; Caribou trails
C-24	2421-22	Aug.23	TL	Rowe	CAGPL	Nearest camp about 40 miles from Trout Lake, no access or road from the camp to the town
C-25	2518-31	Sept.8	FS	Hammond Workman	Citizen CAGPL	Location, impact on Fort Simpson
	2556-57			Hammond Workman		Worker access to Fort Simpson
	. 689-90			Lamothe	Citizen	Worker access to Fort Simpson
C-30	2896	Oct.6	PP	Mirosh	Foothills	Camp location, occupation period
	2936			Mirosh		Camp location, construction schedule
C-31	3000-01	Oct.7	FR	Mirosh		Pine Point camp - housing policy
C-35	3412-15	Oct. 22	LI	Berger Carter Littledale	CAGPL Foothills	Measures to control outside workers from entering communities
C-36	3461-62	Jan. 28	IN	Heine	Citizen	Separation of workers from communities
	3502	Jan. 29		Burrell	Citizen	Proposed camp location re: Inuvik
	3506-07			Workman		Personnel management at camp sites
	3514			Mainland	GPC-D	Work force, construction period
	3518			Mainland		Worker input re: working hours
C-39	3730-	Feb.18		Hill	Citizen	Located away from communities; limited access from camps to communities
115	17562-63	Jan.23		Stamberg	GPC-D-G	Parsons Lake gas field
132	20009-10	Mar.18	YK	Williams	CAGPL	Winter construction camp at Middle Channel work pad area; no large camp at Tununuk Junction
136	20711	Mar.26		Peet	MVPI	Should not be located near fisheries
C-63	7021	June 1	MTL	Mountjoy	Citizen	Isolating work camps to prevent social disruptions to communities

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162	25057-72	July 13	YK	Trusty	CAGPL	Relocation of camps previously situated near Fort Good Hope; camp to be near Fort Norman, no road access; operation as self-contained units
163	25126-27	July 14		Hobart	CAGPL	Need for union co-operation, policy of not allowing workers to leave camps
	25212-19			Trusty	CAGPL	Points of contact between camps, communities
	25407			Trusty		Policy re workers leaving camp; checking baggage; workers entering
165	25513	July 19		Ellwood	Foothills	Self-contained camps, well removed from communities
174	27076-78	Aug 20		Bayly Lainsbury	COPE/ITC NWT/AM	Success of isolation of camps policy
	27097-98			Dusel MacQuarrie	NWT/AM MHA/NWT	Isolation of camps, no impact on Inuvik
180	27971-75	Sept. 7		Bayly Hodson Whiteford. Nessel	COPE/ITC MVPI MVPI MVPI	Proposed self-contained camps, limited access to communities, position of unions
192	29906-07	Oct 4		Baring-Gould	MVPI	Terminal camp, Keystone and Kennedy, locations near Valdez, Sheep Creek camp
	29931			Baring-Gould		Outside of Valdez, reduced strain on institutions and services
195	30452-58	Oct.7		Mirosh	Foothills	Camp location amendment
	30579-82			Kosten	Foothills	Mainline crews to be housed at wharfsites, compressor station crews at stations
204	32346-47	Nov.19		Parker	NWT Govt.	Community contact kept to a minimum

CONSTRUCTION CAMPS - MANAGEMENT AND PERSONNEL

			<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
XXXII	4013-15	Apr. 18	YK	McMullen	CAGPL	Voice communication by phone for private use
XXXIII	4284-85	Apr. 21		Dau	CAGPL	Labour requirements - 9 spreads
XXXV	4552-54 4559 4567/8-70	Apr. 23		Dau Dau Dau		Movement of personnel from one spread to another Travel in and out of camps by workers; productivity Working hours and travelling time
XXXII	4013-15	Apr. 18		McMullen	CAGPL	Voice communication by phone for private use
XXXIII	4284-85	Apr. 21		Dau		Labour requirements - 9 spreads
XXXVII	4776	May 13		Williams	CAGPL	Aklavik, 800 men
	4805-11			O'Rourke	CAGPL	Movement of men by commercial airplane
56	7857-8	Aug.18		Horte	CAGPL	Working periods; leave; regulations re: firearms, alcohol and women
58	8147-8	Aug.19		Blair	Foothills	Regulations; social effect; alcohol and fire arms
	8167-71			Blair		Control of aircraft and vehicles during critical nesting periods
51	6808	Aug.11	WH	Hemstock	CAGPL	Regulations re: firearms and hunting.
53	7206-08	Aug.13		Sprecker	CYI	Glenallen Camp Alyeska - size and regulations
	7212-22			Sprecker		Ratio of southern workers; camp sizes
	7240-45			Sprecker		Impact on recreation; fights in the camp
C-21	2085-88A	Aug. 9	NW	Rowe Burrell	CAGPL Foothills	Relation to Norman Wells
	2199-02			E. Delbroucke Rowe	Citizen	Impact of workers on the community
	2208-09			W. Fraser	Citizen	Impossible to restrict workers from communities
C-22	2253-54	Aug.11	WH	I. Armstrong	Citizen	Interaction with native people
66	9797-98	Sept.22	YK	Mirosh	Foothill	Camps accommodating larger number of men to speed up work

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76	11238-40	Oct. 21	YK	Parker	CARC	Hiring practices re: Native peoples; laying-off of employees; rest and relaxation periods; inter-state migration of labour
95	14360-70	Dec. 3		Jakimchuk	CAGPL	Bears, foxes attracted to garbage; hunting and firearm regulation; Alyeska
	14518-21			Berger		Regulations and restrictions on camp employees; civil liberties; movement and access to communities
C-25	2518-21	Sept. 8	FS	Hammond Workman Ellwood Dixon	Citizen CAGPL Foothills NWT CC	Worker recreation policy, medical facilities, impact multiplier
	2557-59			Workman		Alcohol control in camps, camp facilities
162	25044-45	July 13	YK	Hollands	CAGPL	Single status camps; presence of women
165	25523	July 19		Jensen	Foothills	Permanent accommodation for supervisory personnel
	25655			Lane Ellwood	COPE/ITC	Powers of security guards, control of materials, inventory; restricting men from communities
166	25746-53	July 20		Ellwood		Counsellors necessary for employees, families
177	27549-50	Aug. 25		Purdy	NWT/AM	Enforcement of law inside camps
180	27857	Sept. 7		St. Eloi	MVPI	Camp standards, food must be acceptable to all employees
	27975-86			Nessel Whiteford Dyck St. Eloi	MVPI MVPI MVPI	No firearms; searching for firearms before entering camp; drugs and liquor in camps, provision of a bar or liquor store
	28002-02			St. Eloi		Standards for medical facilities in camps
181	28081-82	Sept. 8		LeClair	MVPI	Use of regional police officers for security
182	28329-30	Sept. 9		Forth	MHA/NWT	Law enforcement by RCMP; peace officers under unions' direction, training
197	30995	Oct. 13		Bergasse	MVPI	Hire North camps do not allow alcohol; women employed in camps

CONSTRUCTION CAMPS - SITES AND FACILITIES

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XIX	2205-6	Mar. 17	YK	Williams	CAGPL	Sans Sault test site; facilities, pads
XXX	3742-3	Apr. 15		Purcell	CAGPL	Microwave radio links, telephone networks
XXXII	4012-15	Apr. 18		McMullen	CAGPL	Increase in communication needs, 7 pay phones
XXXIII	4249-52	Apr. 21		Dau	CAGPL	14,000 tons camp equipment
	4326-8			Dau		Size of camp dependent upon function served
XXXIV	4480-82	Apr. 22		Dau		Quality; weather conditions
XXXVII	4719-22	May 13		O'Rourke	CAGPL	Contractors camp and equipment
	4741-43			Bayly	COPE/ITC	Shingle Point Camp size, additional facilities
	4776-82			Bayly		Accommodation for extra personnel
XXXVIII	4961-2	May 14		Williams	Hous	Housing for location survey crews
	4968-72			Dau		Camps for clearing crews
XXXIX	5047-51	May 15		Williams		Main camp about 2 miles from communities
45	5902-05	May 24		Bayly		Location; consultation with nearby communities
53	7240-45	Aug. 13	WH	Sprecker	CYI	Impact of camps on Glenallen Alaska
C-20	1910-14	Aug. 7	FGH	Rowe	CAGPL	Maps of construction camp location at Ft. Good Hope. Crews live on barges during drilling stage
C-21	2083-88A	Aug. 9	NW	Rowe Burrell	Foothills	Relation to Norman Wells
C-22	2251-53	Aug. 11	WH	T. Nairn	Citizen	Conformity of camp sites to building & fire codes
63	9013-19	Sept. 17	YK	Lazerte	Foothills	Acreage required at compressor stations; inter-relationship between pipeline & compressor construction
	9034-38			Lazerte		Water use; location of water sources; sewage disposal
66	9673	Sept. 22		Mirosh	Foothills	17 work sites at compressors; location of camps apart from work pads

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76	11161-62	Oct. 21	YK	Parker	CARC	Pipeline facilities; duplication of facilities if another corridor is opened up
85	12676-82	Nov. 12		Bayly	COPE/ITC	Sewage treatment packages, bladder storage tanks
	12691-92			Hemstock Williams Williams	CAGPL CAGPL	Water storage, construction camps, compressor stations
86	12874-79	Nov. 13		Lawrence	Foothills	Water supply, waste disposal
	12968-91			Lawrence		Camp water storage, uses; sewage treatment, disposal
87	13116-21	Nov. 14		Lawrence		Sewage treatment; water supply
88	13237-58	Nov. 17		Lawrence Bouckhout	Foothills	Sewage treatment, disposal; gargage disposal
103	15781	Dec. 15		Steigenberger	CARC	Water utilization recommendations
C-25	2519-21	Sept. 8	FS	Hammond Workman Ellwood	Citizen CAGPL Foothills	Camp medical facilities
C-31	3000-01	Oct. 7	FR	Morin	Citizen	Feeder line to Pine Point, housing policy
114	17296-97	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas field, gas plant
	17411			Scott Mainland	MVIP	Taglu gas plant
	17431			Faulkner	GPC-D-S	Niglintgak gas field drilling rigs will be self-contained
115	17563	Jan. 23		tamberg	GPC-D-G	Parsons Lake gas field
130	19737	Mar. 16	YK	Marshall	CAGPL	Relocation of some near Fort Good Hope, Norman Wells, Fort Norman, Wrigley
131	19983	Mar.17		Williams	CAGPL	Delta camps built summer before construction
132	20128	Mar.18		Williams		Facilities at Axe Point staging area like construction camp
147	22438	Apr.28		McCullum	NWT IB/MA	Problem of closed camps, James Bay, discourages native employment
153	23417-19	May 7		Sharp	CYI	Accommodation, board provided at Anvil Mine for single men only; limited diversions
	23496-501					If there were more facilities, bars etc., on camp sites, could it alleviate social pressures on Ross River
161	24802	July 12		Hollands	CAGPL	Orientation programs for both southerners, northerners: will operate independently of communities
162	25067	July 13		Trusty	CAGPL	CAGPL, plans to provide comfortable camps, well maintained with wide range of facilities
164	25338-45	July 15		Trusty		CAGPL policy, employees not to leave camps during off-hours
	25486-88			Roland	MVPI	Question re provision of country food for native employees
165	25514	July 19		Ellwood	Foothills	Emergency health services provided for workers
	25522			Jensen	Foothills	Recommended to Foothills that camps be self-sufficient. Isolated from communities
	25596-98			Reesor Ellwood	NWT/AM	Fort Simpson area, contact with community via airport; contact with Norman Wells, Inuvik, camps connected to communities by road
166	25723-25	July 20		Ellwood		Employees will be flown back to Edmonton upon completion of work in north
	25761-62			Burrell	Foothills	Recreation facilities
178	27597-99	Aug. 26		Merrett	MVPI	How capacity changes between winter and summer and with scheduling
179	27791-801	Aug. 27		Runge Berger	MVPI	Use of buildings after completion for housing, need of input and consultation with Housing Corporation re design, use of sewage disposal units after completion, payment to pipeline for facilities

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181	28049-50	Sept. 8	YK	McCambly	MVPI	First aid; recreation; accommodation; food services
	28100-02			Goudge LeClair	MVPI MVPI	Possibility of training program inside
182	28253	Sept. 9		Forth	MHA/NWT	Consultation between companies and community councils re sites of camps and staging areas
187	28993-94	Sept. 17		Raddi	COPE	In favour of a bar in camp
198A	31410-11	Oct. 14		Christie	MVPI	Employees should be counselled on pipeline camp life; identification of their counsellor
204	32345-46	Nov. 19		Parker	NOWT Govt.	No liquor

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XIXA	2263	Mar. 17	YK	Clark	CAGPL	Need for emergency plans
XXXIV	4484-85	Apr. 22		Williams	CAGPL	In case of lack of snow for snow roads
XXXVII	4762-63	May 13		Bayly	COPE/ITC	Caribou herds near pipeline construction
	4779-80			Dau	CAGPL	Extra accommodation, sufficient camp capacity
	4805-09			O'Rourke	CAGPL	P.W.A., extra planes for movement of management and personnel to construction camps
XXXIX	5059-62	May 15		Dau		Additional men and equipment if necessary
40	5217-20	May 16		Hurd	CAGPL	Heated shelters, landing sites
	5226-29			Hurd		Emergency situations; contingency plans for line breaks
	5237-42			Hurd		Major pipeline breaks
	5246-49			Hurd		Major line repairs
41	5325-26	May 20		Lucas	CARC	Will require land use permits for movement of equipment off ROW
	5336-37			Carlson	CAGPL	In case of spillage of synthetic lubricants
	5350			Lucas		In case of break on Prudeau Bay lateral, North Slope
42	5398-5407	May 21		Hurd		For pipeline fires, equipment, extinguishers
	5509-27			Scott	MVPI	Repair, fire emergencies; full and short term
47	6165	June 3		Wilimovsky	EPB	Accidental spills of pollutants - fish
	6296-98			Templeton	EPB	Lack of detail
48	6333-34	June 4		Wilimovsky	EPB	Plans and specifications must be tabled, recommendation
	6416-20			Bliss	EPB	Fire, protection against spills
49	6611-13	June 5		Horte	CAGPL	Procedures for failures and repairs
50	6630-36	June 6		Horte		Review of terms, plan to be more detailed after approval
C-11	1031-32	July 8	FMcP	J. Blake	Citizen	In case of pipeline fire
C-14	1349-51	July 11	OC	P. Nukon	Citizen	In case of pipeline fire
C-16	1493-501	July 13		Rowe	CAGPL	Auto valves to shut off gas if pressure drops
58	8151-54	Aug. 20	YK	Blair	Foothills	Plans for meeting environmental threatening emergencies
	8164			Blair	Foothills	Intentions to create plans re: future development
62	8791-94	Sept. 16		Mirosh	Foothills	Plans should breakage occur; single versus dual pipe at river crossings; fish
63	8976-85	Sept. 17		Mirosh		Design philosophy - fail safe; station automation equipment designed to operate for long periods of time should communications and supervisory control fail; dispatcher; block valves; pig trap; storage facilities; back-up material

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63	9036	Sept. 17	YK	Lazerte	Foothills	Problem of transporting water if desired source not allowed under Inland Water Act; Water requirements for fire control
	9050-58			Lazerte		Heating system in event of shutdown at compressor station; reason for security fence; handling of toxic substances
64	9404-06	Sept. 18		Claridge Mirosh	Foothills	Corrective measures for slopes, clean up operations
66	9826-27	Sept. 22		Jarvis	Foothills	Plans for snow-making when snow and water resources limited
68	10096-97	Sept. 24		Hushion	Foothills	Approach of Foothills similar to CAGPL
81	11993-12000	Nov. 5		Williams	CAGPL	CAGPL plans for explosives, fire and fire prevention, control of toxic spills
85	12687	Nov. 12		Scott	MVPI	Request for CAGPL toxic substances contingency plans
85A	12798			Scott		Request for CAGPL plans re spills, toxic
86	12984-88	Nov. 13		Lawrence	Foothills	Excess sewage disposal
88	13337-38	Nov. 17	YK	Vaartnou	Foothills	No alternate plans if revegetation fails
90	13573-74	Nov. 19		Dabbs	CAGPL	Extra revegetation seed for extra patches
	13607-20			Dabbs		Cleanup of tonic substance spills in vegetation
	13725-26			Dabbs Hemstock	CAGPL	For forest fires
92	13996-14000	Nov. 21		McCart	CAGPL	Re: methanol spills, sewage disposal; make-up of team
	14012-13			McCart		Re: clean up of spills, mechanical compared with dispersants
	14019-21			McCart		Re: oil spills, other chemicals; equipment already installed along Mackenzie
99	15040	Dec. 9		Hemstock		In operations and maintenance manual, formulation
	15111-15			Bouckhout	Foothills	For waterfowl staging areas; as measure for minimizing environmental impact
104	15965	Dec. 16		Bayly Steigenberger Millen	COPE/ITC CARC CARC	Applicant's plans re: aquatic environments
108	16548	Jan. 13		Wilimovsky	EPB	Proper plans - no major environmental impact; preparation re: blow-out, fire, abandonment, access
111	16935	Jan. 16		Bergerud	CARC	Caribou crossing line during construction
115	17463-65	Jan. 23	IN	Faulkner	GPC-D-S	Niglintgak gas field, plans for escape of toxic chemicals
116	17627	Jan. 24		Stamberg	GPC-D-G	Prevention of fuel spills from barges or off loading sites
	17654			Rempel	GPC-D-I	To minimize effects of accidental spills of deleterious substances
	17698-701			Rempel		Spills on dce, under ice and in moving ice
	17701-			Appleton	GPC-D-G	Transportation of fluids to Parsons Lake development ; environmental impact of spill
117	17796-97	Jan. 26		Wopnford	GPC-D-S	Birds away from areas of hydrocarbons
	17804-06			Rempel	GPC-D-I	Toxic material spills, prevention and containment
118	18056	Jan. 27		Bayly Horsfield	COPE/ITC GPC-D-I	Monopods, floating metal islands as back-up systems
	18062			Bayly Horsfield		Emmerk contingency plans, "Preplanning for Emergencies", abnormal pressures, precautions
124	18945	Feb. 13		Milne	COPE/ITC	Clean-up equipment efficiency in marine environment after October
	18956-60			Milne		Disposal of oil by burning, Canmar operation plans - relief well drilling

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124	18988-92	Feb. 13	IN	Milne	COPE/ITC	Technology available re drilling of a relief well, containment, disposal of oil
	19000-02			Milne		Difficulties in conducting a spring offshore oil cleanup operation
125	19020	Feb. 14		Lewis	COPE/ITC	Clean-up measures on beaches
	19030-31			Shearer	COPE/ITC	Use of silos in offshore drilling
	19054-55			Lewis	COPE/ITC	Containment of oil in breached lakes
	19088-118			Pettigrew	COPE/ITC	Recommendation on information which should be incorporated into a comprehensive contingency plan and site specific action plans for toxic material spills; legislative requirements which applicants must satisfy; recommendations; - response operations - discovery modification, containment and counter-measures, cleanup and disposal, restoration and payment of damages, clean-up costs and fines; the roles of government agencies
	19132-40			Snow	COPE/ITC	Inefficiency of oil containment equipment in northern conditions, use of surface curtains, dykes in containment; contingency plan recommendation
126	19144-55	Feb. 16		Pettigrew		Interprovincial Pipeline failure - summary of Interprovincial Contingency Plan of Action.
	19160-89			Pettigrew Logan Snow	COPE/ITC COPE/ITC	Logan, Pettigrew, Snow - degree of success achieved in clean-up of major oil spills in aquatic environments; efficiency of Canmar contingency plan; feasibility of burning oil - emulsification, impact of entrapment of fumes in inversion; restrictive guidelines re use of dispersants; use of mock exercises as training for oil spill clean-up
	19208			Pettigrew Logan Snow	COPE/ITC COPE/ITC COPE/ITC	Need for special handling of toxic chemicals, engine oils
	19208-44			Pettigrew Logan Snow Marshall	CAGPL	Availability of clean-up contractors in NWT; siting of spill response centers; installation of spill barriers etc. prior to construction; research on dispersants; Delta contingency plan - directing of oil into lakes; design of dykes - containment of spills from storage tanks; pressure testing of pipeline with methanol solution - siting of containment equipment along right-of-way
	19257-83			Pettigrew Snow Logan		Frequency of inspection of pipeline facilities, training exercises; need to identify permanent land disposal sites; regionalizing of company contingency plans, teams; use of synthetic materials in dykes; use of sinkants, dispersants, underwater domes; recommendations re on-land contingency plan clean-up, monitoring programs, open ditch methanol testing, company contingency plans
133	20118	Mar. 23	YK	Marshall		Availability of oil spill contingency plans report
135	20482	Mar. 25		McCart	CAGPL	Reviewing CAGPL'S petroleum spill contingency plans to be done
139	21171-72	Apr. 7		Stephen	MVPI	Containment measures attempted on Athabasca River
	21213-15			Nicol	COPE/ITC	Mizushima oil spill - chemical dispersants ineffective

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139	21232-A-47	Apr.7	YK	Nicol	COPE/ITC	Contingency plans, methods, equipment employed in confronting Mizushima oil spill
	21263-76			Nicol		Divided jurisdiction between MOT, Environmental Protection Service re oil spills; oil recovery devices available in Canada; problems associated with oil spill recovery in Arctic; feasibility of burning oil on water; Salmon River oil spill; stockpiling of contingency equipment
	21263-76			Nicol		Use of chemical dispersants
140	21285-98	Apr.8		Hollingworth Nicol	Foothills	Environmental Emergency Branch of DOE - definition of leadership, advisory role re contingency planning; efficiency of oil mop, Bennet skimmer Mark IV in oil removal; present research - oil removal equipment; importance of dyking; social conflict associated with oil spills; training of Mitsubishi Company employees; joint industry, government contingency planning
C-49	4797-4800	May 10	VAN	Gallon	Citizen	Spills
194	30390-99	Oct.6	YK	Hemstock	CAGPL	Plans for disruption of barge transport on Mackenzie River, North coast; no plans - caribou on Dempster Highway, construction on North Slope; snow roads, culverts
195	30668-75	Oct.7		Dau	CAGPL	Employment of an eighth spread on North Slope, additional backfilling manpower requirement if considerable blasting required
197	31059-63	Oct.13		Norton	MVPI	Plans for oil spills during Alyeska pipeline construction unworkable; labour use contingency plans; bonding or insurance policies
201	31770-71	Nov.16		Marshall	CAGPL	Plans to reduce impact of Shallow Bay crossing on whales
	31792-94			Marshall		Plans for North Slope construction

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XXVIII	3530-3531	Apr. 11	YK	Scott Williams	MVPI CAGPL	Revegetation
XXXIII	4263	Apr. 21		Dau	CAGPL	Movement from stockpiles to construction site
	4282			Dau		Procurement and supply controlled by Applicant not agent
	4285-86			Dau		Labour requirements, manpower
XXXIV	4428	Apr. 22		Dau		Independent contractors, helicopters
	4462-65			Dau		Construction spreads, authority
XXXV	4641-43	Apr. 23		Dau		Control; contractual relation to stop work
XXXVII	4719-22	May 13		O'Rourke	CAGPL	Camps on interior route
XXXVIII	4936-38	May 14		Lucas	CARC	Environmental stipulations
XXXIX	5097-5100/1	May 15		Dau		Told what to do by design and specifications
	5155-78			Harlan	CAGPL	Information re number of spreads
42	5387	May 21		Hurd	CAGPL	Union vs non-union workers
	5440-43			Scott	MVPI	Independent contractors, air service, constraints
	5560-63			Horte	CAGPL	Twenty to twenty-five year contracts for the sale of gas
43	5589	May 22		Horte		Arctic Gas vs contractor procurement of equipment
	5978			Horte		Final design and specifications needed before contracts can be let
47	6290-91	June 3		Templeton	EPB	Environmental requirements difficult to enforce
50	6636-37	June 6		Horte	CAGPL	Type of contract anticipated, shut down compensation
	6652-62			Marshall Scott	CAGPL MVPI	Input from reports
	6716-40			Horte		Contracts with CAGPL in control, project cost, equipment, use of Canadian contractors
C-4	272-286	May 28	HR	S. Dean	Citizen	Problems of small contractors in NWT
C-5	384-390	May 29		Tetrault	Citizen	Bonding for small business
	420-421			Berger		Position of local contractors

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C-5	466-468	May 29	HR	Hushion	Foothills	Pipeline spreads, Canadian contractors
56	7851-7	Aug. 18	YK	Horte	CAGPL	Wage and working condition agreements
58	8246			Blair	Foothills	Programs to provide work experience; training programs; native employment
62	8961	Sept. 16		Scrimes	Foothills	Communication service use
63	9052	Sept. 17		Lazerte	Foothills	Undecided re extent of local business in building camp and compressor facilities
65	9616-17	Sept. 19		Kosten	Foothills	Availability of contractors and resources for Foothills project; The Pipeline Contractors Association of Canada
	9620			Kosten		Policy of providing training programs for the skilled trader
66	9650	Sept. 22		Kosten		Marine Pipeline of Canada advice to Foothills
	9680			Bauer	Foothills	Manpower resources not capable of providing force for clearing if strike occurred
	9724			Kosten		Consultation with contractors re spread productivity
	9770			Kosten		Advice re daylight hours and schedule
	9805-08			Kosten		Wages negotiated by contractor for Alyeska
	9818			Kosten		Wages compared to Alyeska contracts
	9818			Kosten		Safety manual of Pipeline Contractors Association
67	9882	Sept. 23		Kosten		Wage rates negotiated by the Pipeline Contractors Association
	9885-95			Kosten Bauer		Negotiation of wages with unions; problems of restricting overtime; experience of the Trans Alpine Pipeline
68	10042	Sept. 24		Hushion	Foothills	Local services more likely to be contracted when headquarters are based in NWT
	10127			Mirosh	Foothills	Coastal Barge Operators Association
	10128-70			Dau Williams	CAGPL CAGPL	Contractors estimates of spread productivity
	10179-82			Dau Williams		Comparison of spread estimates of contractors and NES
	10189-93			Templeton	EPB	Threat of shutdown of pipeline - delays mean money; idea of performance bond posting by companies
76	11237	Oct.21		Parker	CARC	Native corporation affiliation of subcontractor
86	13007-08	Nov. 13		Williams		Working days, estimates, Inuvik area
	13047			Gibbs Williams	Foothills	Start of construction depends on snow road being built
88	13283-84	Nov. 17		Bouckhout	Foothills	Provisions in contracts for delays for archaeological work
99	15044-46	Dec. 9		Hemstock	CAGPL	Ensuring contractors abide by environmental rules
106	16260	Dec. 18		Lent	CARC	Pressures re: deadlines and performance; consequences of pressures
C-33	3119	Oct. 9	FS	Berger Mirosh	Foothills	Policy re: sub-contracts awarded to local contractors
	3138			Mirosh		Northern sub-contractors, local contractors utilized
C-39	3723-24	Feb.18	IN	Hill	Citizen	Bids encouraged from native organizations, settlement councils and local contractors; competition of resident businesses; types and value of contracts
	3727			Hill		Continuous work for local contractors
	3730-31			Hill		Local purchase of supplies; size of contracts adjusted to suit northern business
117	17870	Jan. 26		Bell	NWT IB/MA	Co-operation with unions, article five of International Labour Organization
139	21154-57	Apr. 7	YK	Stephen	MVPI	Bonding of contractors
151	23097-98	May 5		McClellan	CYI	Numbers used to build Alaska highway
153	23417	May 7		Sharpe	CYI	Construction of Anvil Mine undertaken by Parsons, general contractor

CONTRACTORS (continued)

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159	24522	July 7	YK	Trusty	CAGPL	Will be obliged to obey all stipulations laid down
161	24830-33	July 12		Bayly Williams	COPE/ITC CAGPL	Number of employees needed, maintenance work, ROW; question re northerner hiring policies
	24856			Trusty		CAGPL, request for estimates from eight contractors
	24894-906			Hollands	CAGPL	Discussions with CAGPL; northern hiring policies
162	24952-54	July 13		Williams		Consultation with CAGPL re Christmas breaks
	24996-5000			Williams		Clean-up, restoration work to be contracted out; policies re in-migration of employees
	25008-14			Williams		Standard pipeline agreements; "A Labor Manual, Pipeline Contractors Association of Canada"
	25075-76			Trusty		To contract out trucking services, Enterprise to Axe Point, Fort Simpson
165	25515	July 19		Ellwood	Foothills	Required to observe same regulations as Foothills
171	26522-26	Aug 17		Burrell Ellwood	Foothills	Assures guideline compliance concerning preferential hiring of Northerners, by contractors
	26561-65			Burrell MacLeod	Foothills	Problem of lending funds so that they can further expand
175	27254-63	Aug. 23		Hinchey	NWT/CC	Recommendations: (1) big depository; (2) advertising in north prior to south; (3) list of firms eligible for contract, invitation to tender; (4) contract awards notified; bonding, recommendations; bid differential relative to outside competitors extended to northern contractors; Material Supply contracts, recommendations; air charter contracts; size of contracts
	27283-88			MacLeod Berger	NWT/CC	Limiting preferential treatment for contractors; bonding, except on pipeline contracts; Saskatchewan bonding agency
	27315-17			Hinchey		Local businesses' provision of supplies to contractors; formation of businesses consortium, joint bid
	27339-52			MacLeod Ashton Hinchey	NWT/CC	Limits of bonding to local business; bid differential; F.O.B. place of use; lead time for tendering; bid depository
193	30068-70	Oct. 5		Templeton	EPB	Failure to understand environmental stipulations
	30121-23			Doyle	EPB	Tender evaluation, contractor mobilization
194	30333-34	Oct. 6		Doyle		Agency final design review should precede letting of contracts

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XVI	1869-71	Mar. 12	YK	Berger		Re: Guidelines for Northern Pipelines
XXIV	2791	Apr. 7		Lane	COPE/ITC	Effect of frost bulb on other corridor facilities
XXIV-A	2946-47			Berger		Route-oil pipeline consequences
XXVI	3084	Apr. 9		Scott	MVPI	Staging of corridor phase
XXXII	4168-84	Apr. 18		Anthony	CARC	Presentation of motion-timing
	4187-89			Bell	NWT IB/MA	Presentation of motion-timing
	4190-91			Veale	CYI	Presentation of motion-timing
	4191-95			Bayly	COPE/ITC	Presentation of motion-timing
	4196-4201			Hollingworth	Foothills	Presentation of motion-timing
	4209-25			Scott		Presentation of motion-timing
XXXV	4616-17	Apr. 23		Bell		Selection of highway route, Transportation Study
42	5445-51	May 21		Berger		Gas and oil pipelines, highway, railroads, electric power transmission line
44	5839	May 23		Horte	CAGPL	Guidelines
46	6099-6101	June 2		Berger		Possible 2nd gas pipeline, integral part of project
	6143-44			Bliss	EPB	Pipeline less impact on air quality than additional development

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47	6168-69	June 3	YK	Wilimovsky	EPB	Aquatic environment - impact of gas and oil pipelines, road etc.
	6174			McT-Cowan	EPB	Effect of additional development on impact predictions
	6193			McT-Cowan		Long term effect on bird resources
	6230-35			Templeton	EPB	Other major projects will follow and impact land
	6266-68			McT-Cowan	EPB	Chain reactions from initial impact
	6273-75			McT-Cowan		Cumulative impact Vol 1 EPB report
48	6345-53	June 4		Bliss		Development of highway, lack of regulatory facilities
	6441-48			Templeton		No assessment of oil pipeline or looping yet
49	6546-48	June 5		Horte	CAGPL	Highway as an influence on pipeline route
50	6638-43	June 6		Horte		Highway communication system, oil line
	6698-99			Horte		Hydrocarbon development, Crow Flats unproductive
C-4	189-190	May 28	HR	Berger		Looping; possibility of oil pipeline
C-8	753-54	June 25	FF	L. Modeste	Citizen	Oil pipelines, highways
C-13	1197-9	July 10	FMcP	W. McDonald	Citizen	Oil pipeline; looping of gas pipeline
58	8176	Aug. 20	YK	Blair	Foothills	Intention to maintain a corridor concept
	8182-3			Blair		Similar to CAGPL in concept
59	8349	Aug. 21		Gibbs Panel 3	Foothills	Reference to a Foothills and D.P.W. discussion as to compatibility of the Mackenzie Highway and the pipeline
51	6749-6881	Aug. 11	WH	Panel	CAGPL	Pipeline routes, use of existing transportation facilities - Dempster, Mackenzie Highways; development along routes re: compressor stations, pipeline facilities; terrain information; environmental impact
52	6882-6960	Aug. 12		Banfield	CAGPL	Synergistic impact of systems
	7048			Hemstock	CAGPL	Impact of a corridor on coastal & interior route
53	7095-7100	Aug. 13		Banfield	CAGPL	Synergistic impact of laterals & gathering lines
	7177-83			Joe	CYI	Experience in Yukon of development & its exponential increase
53A	7298-99			Leonard	CARC	Environmental & geotechnical problems of Fairbanks Corridor
	7335-38			Thompson Leonard	CARC	Oil pipeline - Fairbanks Corridor
	7345-48			Collins Thompson	CARC	Difficulty of regulating development through Range
	7387-89			Geist	CARC	Synergistic impact; Fairbanks Corridor
55	7598-7600	Aug. 15		Hughes	CARC	Dempster Highway follows Mountain Pass; physiographic corridor; Alaskan highway corridor
C-21	2130-31	Aug. 9	NW	C. Barnabe	Citizen	Development inevitable
C-22	2229	Aug.11	WH	C. Pearson	Chamber of Commerce	Severe impact on Old Crow use of existing corridors
C-23	2319-24	Aug.14		A. Fekete	Citizen	Oil pipeline proposal; adherence to established corridors
	2347-49			I. Warner	Citizen	Oil pipeline considerations
62	8809-11	Sept.16	YK	Mirosh	Foothills	Right-of-way width; later development; hydro transmission lines; oil pipelines, roads; third party vandalism
	8932			Scrimis	Foothills	Need to create a communication corridor
64	9436-37	Sept.18		Claridge	CAGPL	Studies of slopes involved 10 mile corridor
68	10200	Sept.24		Templeton	EPB	Oil pipeline not inevitable; conditions of oil pipeline different from gas
75	11051	Oct.20		Weedon	CARC	New route, pipeline facilities, impact of roads, air traffic, communication facilities on a previous wilderness area; Interior route, coastal and alternative routes

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76	11158-79	Oct.21	YK	Weedon Parker	CARC CARC	Use of Alyeska corridor for a gas pipeline; intensive studies completed re: soil information, terrain studies; not opening up of other wilderness areas
	11179-298			Weedon Parker		Alyeska corridor; Alyeska haul road; Alaska highway
77	11347-442	Oct.22		Rutter	CARC	Reports; area of interest re: routes for pipelines, roads; terrain and vegetation information; Mackenzie Valley area; concept of the Mackenzie Corridor; east of the Franklins route; alternatives outside the corridor
	11452-88	Oct.22		Roed	CARC	Edge of the shield; possible hot oil pipeline route; need for facilities; use of Mackenzie River transportation benefits
78	11534-40	Oct.23		Roed		Transportation and communication facilities following one after the other; availability of minerals and of oil and gas reserves; terrain sensitivity re: edge of the shield route
80	11875-78	Nov.4		Minning	CAGPL	Projected borrow requirements for the oil pipe- line
81	12012-16 12031-39	Nov.5		Hemstock Minning	CAGPL	Impact of looping and oil pipeline Borrow requirements for oil line
83	12367-69	Nov. 7		Scott	MVPI	Cravel shortage if railroad built; pipeline requirements small compared to other industry
	12518-22			Berger		Evidence to be given later
85	12701-08	Nov. 12		Berger Hemstock		Necessity for power lines etc., if compressors electric, impact
88-A	13394-97	Nov. 17		Berger		Impacts of highway, oil pipeline, looping
89	13435-36	Nov. 18		Berger Gunn	CAGPL	Enhanced oil and gas exploration after gas pipeline built; effects on birds.
90	13637-70	Nov. 19		Environ- mental panel	CAGPL	Impact of other major developments, oil pipeline, railroad, highway along pipeline corridor
	13760-61			McCart	CAGPL	Impacts of oil pipeline, highway on fish
91	13779-80	Nov. 20		McCart		Impact on fish, oil versus gas pipelines, cumulative impact
92	14012 14057-59	Nov. 21		Bayly McCart	COPE/ITC	Potential for larger spills of fuel, chemicals Sedimentation; levels of protection measures required if corridor follows gas pipeline
93	14141-42	Dec. 1		Gunn	CAGPL	Long term impacts, oil pipeline, future oil ex- ploration and development
95	14437-51	Dec. 3		Scott Berger Marshall Banfield	MVPI CAGPL CAGPL	Access roads, North Slope; assumptions re environmental assessment basis
	14462-63			Scott Berger		Impact of future development
97	14735-44	Dec.5		Hemstock	CAGPL	Impact of gas and oil pipelines, high- way in one corridor; terms and conditions
98	14991-93	Dec.8		Gunn Jakimchuk	CAGPL CAGPL	Game management programme needed due to increased access, pipeline and highways
	15053-104	Dec. 9		Environ- mental panel	CAGPL	Effects on wilderness areas; Arctic Wildlife Range: archaeological sites
	15154-77			Environ- mental panel	Foothills	Impact of highways, oil pipeline with gas pipeline
101	15418-24	Dec. 11		Peterson	CARC	Pipeline Guidelines concerned with corridors not routes; i.e. general not specific
	15506-16			Peterson Scott Berger		Corridor areas defined, exclusion of Mackenzie Delta
102	15552-59	Dec. 12		Peterson		Origin in Environmental-Social Committee, studies, debates
	15690-92			Novakowski	CARC	Consideration of wildlife in corridor planning
103	15741-42	Dec. 15		Stein	CARC	Short and long term impacts of pipeline on fish resource
	15759-61			Steigenberger	CARC	Concept modification-watershed concept re: environmental disruption monitoring

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104	15921-22 15966	Dec. 16	YK	Walker Bayly Steigenberger	CARC COPE/ITC CARC	Study period considerations Need for watershed concept re: river crossings
105	16026 16066	Dec. 17		Marshall Millen	CAGPL CARC	Transportation corridor re: effects of facilities His responsibility re: impacts of industrial activities; difficulty of grasping concept
106	16226	Dec. 18		Calef	CARC	Repercussions of isolating wilderness by pipeline re: door opened to other developments
107	16306-11	Jan. 12		Bliss Templeton	EPB EPB	Cumulative impacts; energy corridors; route comparisons
108	16440-41 16530-31 16540-55 16558-81	Jan. 13		McT-Cowan Craik Templeton McT-Cowan Wilimovsky Berger	EPB EPB EPB	Oil pipeline to follow a gas pipeline; guidelines Environmental issue if the gas pipeline is followed by an oil pipeline; highway Land use planning; oil pipelines, roads - access, highways; cumulative impacts
109	16584-86 16612-14 16667	Jan. 14		McT-Cowan Templeton McT-Cowan Templeton		Planning of a corridor, EPB atlas, a comprehensive land capability study Air traffic corridor north of the line joining Aklavik, Reindeer Station, Sitidgi Lake; MOT concepts of air corridors; impacts Oil pipeline, looping, EPB opinion; preservation of the North Coast; roadway
110	16747-48 16811-12	Jan. 15		Bergerud Calef	CARC CARC	Arctic Gas research into impacts of transportation corridors Increased access - air, rail, road, all-terrain vehicles; cumulative impact
111	16932 16980-17000	Jan. 16		Bergerud Davies	CARC MVPI	Believes other development will follow pipeline Methods of selecting, evaluating corridors
C-24	2402-03	Aug. 23	TL	T. Kushia	Citizen	Oil and gas exploration along pipeline route
C-27	2768-71	Sept. 10	FS	Paulette Berger	Citizen	Gas pipeline, then oil pipeline, implications, impact
C-30	2920-31 2957-58 2968	Oct. 6	PP	Berger Mirosh Bolmer Berger	Foothills Citizen	Concept definition of energy, transportation corridor Highway, railway extension along corridor Energy, transportation corridor
C-34	3278-80	Oct. 15	YK	Russell Berger	Citizen	Human transportation corridor re: Trans Canada Pipeline; gas now, oil later; energy corridor re: river
C-39	3753-	Feb. 18	IN	Berger		Impact of gas and oil pipelines
115	17595-96	Jan. 23		Bayly	COPE/ITC	COPE/ITC witness Shaw's evidence, "Handling of hazardous materials in oil and gas field development in Alberta" relevant because of possibility of future oil development
130	19740-41	Mar. 16	YK	Marshall Williams	CAGPL CAGPL	Hemstock's report "Corridor Concept for Parallel Transportation and Communication Modes": Avcon Aviation Consultants, report, "Historical Activity Data, Mackenzie Valley Corridor"; cross-Delta route common to prime and offshore corridors
133	20197-202	Mar. 23		Berger Environmental Panel	CAGPL	Guidelines for Northern Pipelines allow for oil pipeline along same corridor; impact on wildlife
134	20211	Mar. 24		Webb	CAGPL	Impact on whales of oil pipeline along corridor
135	20490-93 20550	Mar. 25		McCart Hemstock	CAGPL CAGPL	Effects on fish if oil pipeline built along same route; preferred routes Route preference, Delta area, if oil pipeline follows corridor

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137	20855-61	Apr. 5	YK	Davies	MVPI	Evaluation of corridors; transmission line for Manitoba Hydro, Ontario Hydro, New Brunswick Power, routes within corridors
C-47	4559	Mar. 13	ARR	Beer N. Norbert	Foothills Citizen	Proposal for oil to follow gas, impact on environment
C-48	4694-97	Apr. 30	FS	F. Paulette Berger	Citizen	Oil to follow gas pipeline, role of government, Inquiry in decision - making process
C-49	4836-38	May 10	VAN	Pape	Citizen	Energy corridor will affect all of Canada's economies
C-54	5603-04	May 17	EDM	Berlie	Citizen	The energy corridor will increase needs for modern modes of transportation
C-56	6080-83	May 19	REG	P. Prebble	Citizen	Environmental impact, gas, oil, pipelines, highway
C-57	6164	May 20	WIN	K. Johnson	Citizen	Manitoba Naturalists Society opposed to construction if oil follows gas pipeline
C-63	7064	June 1	MTL	Boucher	Citizen	Precedent of gas pipeline would bring on an oil pipeline, railway, power lines, all must be considered
C-65	7453	June 4	OTT	K. Reitan	Citizen	Report on the Transportation Corridor Study, consideration of building pipeline with roads/railroad
165	25628	July 19	YK	MacLeod	Foothills	No reason to believe construction of oil pipeline
166	25757-59	July 20		Burrell	Foothills	Implications of supplying gas to northern communities
C-68	7885-86	July 16	FP	Horte	CAGPL	Oil line, right-of-way
178	27618-19	Aug 26	YK	Merrett Pritchard	MVPI MVPI	Increased social and economic impact if further development
	27634			Merrett Pritchard		Impact on communities
181	28073-74	Sept. 8		McCambly	MVPI	Possibility of moving training facilities to settlements if further development
	28127-28			Reimer	MVPI	Continuing development cannot be taken for granted, other exigencies
184	28530-31	Sept. 14		Atcheson Scott	COPE/ITC MVPI	Preparation for future development, native control, education needed
193	30194	Oct. 5		Templeton	EPB	Transportation corridor defined for Mackenzie Valley
	30218-23			Templeton		Energy corridor concept for Yukon coastal plain rejected; employment of corridor concept plus land freeze in Mackenzie Valley
194	30348-68	Oct. 6		Hemstock	CAGPL	Historical review, Mackenzie River corridor - native use, boat, air, road transportation, communications; savings - multiple use of facilities; anticipated environmental impact of oil, gas pipeline construction on Mackenzie, Yukon corridors
	30372-83			Hemstock		Required width of energy corridor, siting of facilities: highway construction through Yukon corridor not recommended; Gibson Gap - distance between oil, gas pipelines; gas pipeline routing should complement oil pipeline route
	30404-07			Hemstock		Yukon corridor - oil, gas pipelines, highway
	30415-34			Wylie	MVPI	Beaufort Delta - parameters influencing oil pipeline routing, burial, elevation, energy sources - powering of pumping stations
203	32079-84A	Nov. 18		Anthony	CARC	CARC does not recommend explicit corridor policy; applicants have failed to demonstrate impact of oil pipeline; cumulative impact; impact of oil spill; Fairbanks corridor should be considered

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C-4	198-208	May 28	HR	Phillip	Citizen	High cost of utilities
	281-82			S. Dean	Citizen	Providing services should be responsibility of pipeline company
C-12	1110	July 9	FMcP	D. Itsi	Citizen	High prices of food; reliance on caribou
	1123			G. Luxie	Citizen	High cost in the north, inflation

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C-16	1593-4	July 13	OC	B. Sharpe	Citizen	Arrival of people causes local people to rise
53	7191-205	Aug. 13	WH	Sprecker	CYI	Impact of Alyeska pipeline
	7224-39			Sprecker		Inflation in Alaska
C-20	1946-48	Aug. 7	FGH	M. Drybone	Citizen	Price increase in Alaska due to pipeline
C-23	2372	Aug. 14	WH	R. Genelli	Citizen	Concern about inflation; example in Alaska
106	16276	Dec. 18	YK	Lent	CARC	Housing, heating costs re: shortage of housing
C-24	2465-67	Aug. 23	NB	M. Miller	Citizen	Boom phenomenon; escalation of prices
	2486-511	Sept. 8	FS	Dixon	NWT/CC	Impact multiplier, wage standards, local inflation
				Rutherford	Foothills	
				Erion	NWT/CC	
				Workman	CAGPL	
				Black	Citizen	
C-26	2714	Sept. 9	FS	A. Nahanni	Citizen	High cost of living, inflation, grocery bills, steel products
C-28	2793	Sept. 10	WR	H. Hardisty	Citizen	Result of Alaska oil pipeline re higher cost of living
C-34	3337	Oct. 16	TK	Henne	Citizen	Increase because of energy shortage
C-39	3709-10	Feb. 18	IN	Robertson	Citizen	Increased activity of power plants and generating equipment, cost to community; telephone rates; freeze on power rates for residential customers
	3727			Hill	Citizen	Wage and price controls during construction; matched wages and prices between business and pipeline operations
	3731			Hill		Inflationary problems with shortages of goods and services
	3743			Raynier	Citizen	Rise in property prices, impact on working man
147	22370-71	Apr. 28	AK	Page	NWT IB/MA	Level of inflation at the local level
C-46	4461	Mar. 11	PAUL	R. Kirby	Citizen	Increase in prices because of pipeline
C-50	5061	May 11	VAN	Potts	Citizen	Rising costs will affect natives most
181	28185-89	Sept. 8	YK	Breckenridge	MVPI	Suggestion to counter adverse effect on non-pipeline workers and businesses; price and wage controls only affect wages; increase cost of power, transportation; prices in Alaska
	28220-21			McRae		Boom economy raises prices
	28232-33			McRae		Much higher than other areas; problem of indexing; Alaska prices have skyrocketed
192	29962-63	Oct. 4		Baring-Gould Bennett	MVPI MVPI	Down in Valdez, reduction in food prices

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44	5739-47	May 23	YK	Bell	NWT IB/MA	Letter to band council at Fort Good Hope from Northwest Lands and Forest Services
C-I	21	Apr. 2	AK	Elanik	Citizen	Council in Aklavik
C-II	79-80	Apr. 3		Stoor	Citizen	Council in Aklavik; land use permits
C-III	150-54	Apr. 4		MacWatt	Citizen	Aklavik council, planning for the future
C-4	197	May 28	HR	Phillip	Citizen	Fort Providence Settlement Council
C-5	461	May 29		Hushin	Foothills	Meeting between Foothills and Hay River Town Council
C-6	480-501	May 30		D. Sonfrere	Citizen	Hay River Indian Band Council present at the hearings
	590-595	May 31		D. Sonfrere		Elections
C-7	602-03	June 24	FF	Tatti	Citizen	Submission by Band Council, Fort Franklin
C-8	697-705	June 25		Tekzo	Citizen	Application to Fort Franklin for permit to do seismic work
	726-28			J. Kenny	Citizen	No representation made for right to explore for oil, other resources
C-10	875-82	June 27	FN	P. Andrew	Citizen	Settlement councils introduced by Territorial Govt.
	892-98			R. Clement	Citizen	Settlement council, Fort Norman
C-13	1250-53	July 10	FMcP	J. Simon	Citizen	Fort McPherson Settlement Council

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C-16	1612-24	July 13	OC	B. Sharpe	Citizen	Old Crow band council has good decision making process
C-17	1757-8	July 17	FL	B. Menikosh	Citizen	Fort Simpson Band Council has no power
59	8476-7	Aug. 21	YK	Bell Panel 3	NWT IB/MA Foothills	Foothills discussion and consultation as to the location of compressor stations; Fort Good Hope, Fort Simpson
C-19	1860-71	Aug. 6	FGH	J. Louison	Citizen	Land use permit problems faced by settlement council
68	10063-64	Sept. 24	YK	Hushion	Foothills	Definition of the "local authorities" Foothills would consult re: district headquarters
71	10666-88	Oct.14		Bayly Longlitz	COPE/ITC MVPI	Involvement of communities, councils, band on the land use permits and land use activities; input of communities; communication mechanisms set-up
72	10695	Oct.15		Bayly Longlitz		Input of councils, bands and community opinion into approval of a land use permits
C-24	2446	Aug.23	NB	H. Deneron	Citizen	Land use permits re Cadillac Mines, consultation by territorial Government with communities
C-25	2506-08	Sept.8	FS	Black	Citizen	Potential alternative forms of local government
	2560-64			Ivans	Citizen	Need for representative governing body to ensure organized development; facilities, services needed for expected population increase, Council recommendations
	2567-69			Black		Co-operative effort - applicant, Fort Simpson re spur line, water pipeline construction
	2603-04			Hammon Black	Citizen	Sewage treatment plans
C-26	2622	Sept.9		Antoine	Citizen	White man's lack of recognition re Chief and Band Council in Fort Simpson
	2678			Menicoche	Citizen	Village Council represents white people, Band Council represents Dene people
C-27	2729	Sept.10		Cummings	Citizen	Village Council re rights to speak for Fort Simpson residents
C-28	2781-84	Sept.10	WR	H. Hardisty	Citizen	Dispute between Wrigley Settlement Council and Federal Government re land use permit and COMINCO, Mackenzie Highway
	2789			H. Hardisty	Citizen	Debate re move from Old Town to new Wrigley
C-29	2871-77	Sept.12	JMR	Lafferty	Citizen	Territorial Council, constituency views re energy resources, land claims, ethnic differences, road, economic future
	2882			Lafferty		Territorial Council, help needed by constituency
C-32	3059	Oct. 8	FR	McConnell	Citizen	Fort Resolution Settlement Council
C-33	3106	Oct. 9	FS	Evans	Citizen	Fort Smith Council re: development of resources, land settlement
C-39	3699	Feb.18	IN	Robertson	Citizen	Council of the Corporation of the Municipality of Inuvik
	3715			Hill	Citizen	Inuvik and District Chamber of Commerce
	3748			Tanner	Citizen	Involvement of young people on Town Council
144	21928-29	Apr.15	YK	Sanders	NWT IB/MA	Carrothers Commission of 1966; no consideration given to review of Indian Band Councils
	22009-25			Barnaby	NWT IB/MA	Elections for the Municipal Council, Fort Smith; native representatives, voting
	22028-55			Bean	NWT IB/MA	Growth of local government in NWT; conflict between municipal councils and native political structures
147	22411-417	Apr.28		Richardson	NWT IB/MA	Band councils of the Cree, replaced by municipal councils which will be co-terminus with the corporations, Quebec
	22427-429			Richardson		Cree Grand Council, representation from band councils and Quebec Inuit Association
148	22540-41	Apr.29		Nahanni	NWT IB/MA	Consulting Band list for number of trappers

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148	22624-25	Apr. 29	YK	Snowshoe	NWT IB/MA	Settlement Council, new laws being imposed on hunters, trappers
150	22910-11	May 4		Simpson	NWT IB/MA	Past meeting of DIAND official and council, Muncey Oneida reservation
	22955-56			Cheezie	NWT IB/MA	Settlement Councils, native, non-native participation; lack of understanding by natives
	22978-79			Bean	NWT IB/MA	Question of local government structure in communities with both native, non-native populations
	22981-90			Bean		Nature of structure, lack of understanding by natives, leads to non-native takeover
151	23110	May 5		Cruikshank	CYI	Government imposed councils, lack of effectiveness
153	23441	May 7		Sharpe	CYI	Band Council, Ross River, established co-op saw mill 1966
	23458			Sharpe		Band Council becoming politically and economically aware with the polarization of Ross River
	23494			Sharpe		Ross River, creating a community plan
C-50	5033	May 11	VAN	Hodgkinson	Citizen	Natives able to cope with their own problems through settlement councils
C-63	7076-80	June 1	MTL	Diamond	Citizen	Grand Council of the Crees
C-66	7651-52	June 7	CH	A. Holman	Citizen	Tuktoyaktuk Council, fight to reject permit for summer seismic work near community
C-67	7678	June 8	HAL	J. Lotz	Citizen	Lack of awareness at Territorial Council level
167	25930-31	July 21	YK	Usher	COPE/ITC	Population influx, possible dominance by outsiders
	25954-55			Beakhust	COPE/ITC	Native attitudes toward, voting for, settlement councillors
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168	26082-84	July 22		Brody	COPE/ITC	Arctic Bay, opposition to availability of liquor
	26164-65			Brody		Pond Inlet, attempts to control liquor consumption
169	26255	July 23		Stanley	NWT IB/MA	Lummi Band, Lummi Indian Business Council
	26268			Stanley		Papago people having trouble with their council re decision making for government programs
172	26798-801	Aug. 18		McDiarmid	Citizen (COPE/ITC)	Territorial Council, Dene withdrawing support, boycotting elections
177	27489-91	Aug. 25		Wood	NWT/AM	Management of physical plant, control distribution of gas
	27493-94			Wood		Handling of gas distribution or franchising, instead of federal government
	27565-66			Purdy	NWT/AM	Authority, difference between power of settlement, hamlet, town or city, control of law enforcement
189	29380-82	Sept. 22		MacLeod	NWT /AM	Debenture loans for capital projects; annual operating grant based on budget of Territorial government available to hamlets; settlements totally funded by Territorial government; guidance and inspection section of Territorial government to provide advice to local councils

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159	24318-20	July 7	YK	Boorkman	CAGPL	Statistics for Alaska, no crime wave due to Alyeska pipeline
	24441			Boorkman		Increased more rapidly than population
	24525-26			Boorkman		Alaska, gambling and prostitution
	24580-85			Boorkman		"Impact Analysis of Construction of Trans-Alaska Pipeline on the Administration of Justice in Alaska," Alaska Department of Law, Criminal Division, March 1976
164	25355-57	July 15		Berger		Factors, increase in crime rate, Gemini North report
	25437			Hobart	CAGPL	Woundings, social indicator of amount of drinking in a community
165	25538-41	July 19		Jensen	Foothills	Increased rates, relationship with alcohol abuse, recommendations to Foothills to minimize adverse influences resulting from project

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166	25683-85	July 20	YK	Ellwood	Foothills	Questions re legality of asking for an employee's criminal record
168	26146-49	July 22		Brody	COPE/ITC	Increase in liquor ordinance offenses, NWT
171	26648-58	Aug. 17		Dixon	MVPI	Alaska, commercialized vice, robbery, brawls
172	26737-38	Aug. 18		Dixon		Alaska, juvenile delinquency, increased rates
177	27529	Aug. 25		Schauerte	NWT/AM	Increase of people with serious records, lack of protection for local officers
	27553-54			Purdy	NWT/AM	Differing incidence between communities
187	29003-06	Sept. 17		Bruce	COPE	Alcohol-related crime from report of Commission of Inquiry into Non-Medical Use of Drugs
	9022-25			Bruce		Rate of crime in licensed premises, enforcement problems; bootlegging
188	29241-44	Sept. 21		Lincoln	COPE	Alcohol related crime in Alaska; study by Dr. Judy Hill "Alcohol and the Alaskan Offender"; tables showing native, white and black percents of violent crime

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XVI	1748-83	Mar. 12	YK	Gibbs	Foothills	Dau
	1783-91			Gibbs		Mollard
	1791-94			Berger		Dau
	1795-08			Gibbs		Dau
	1815-29			Anthony	CARC	Dau
	1829-39			Anthony		Mollard
	1840-42			Berger		Dau
	1842-74			Anthony		Dau
XVII	1886-98	Mar. 13		Anthony		Dau & Panel 1
	1898-1946			Bell	NWTIB/MA	Dau & Panel 1
	1946-2004			Bayly	COPE/ITC	Dau & Panel 1
XVIII	2011-46	Mar. 14		Bayly		Dau & Panel 1
	2046-2120			Scott	MVPI	Dau & Panel 1
XXI	2487-2515	Mar. 19		Hollingsworth	Foothills	Clark & Panel 2
XXII	2547-2627	Mar. 20		Anthony		Clark & Panel 2
XXIII	2738-58	Mar. 21		Bell	NWTIB/MA	Clark & Panel 2
XXIV	2768-78	Apr. 7		Bell		Clark & Panel 2
	2778-2876			Lane	COPE/ITC	Clark & Panel 2
XXIV-A	2878-2947			Scott		Clark & Panel 2
XXV	2964-3083	Apr. 8		Scott		Clark & Panel 2
XXVI	3091-3277	Apr. 9		Scott		Clark & Panel 2
XXVII	3278-3435	Apr. 10		Scott Anthony	CARC	Clark & Panel 2
XXVIII	3436-3560	Apr. 11		Scott		Clark & Panel 2
XXX	3768-3871	Apr. 15		Gibbs	Foothills	<u>Purcell & Panel 3</u>
XXXI	3873-79	Apr. 16		Gibbs	Foothills	Purcell and Panel 3
	3882-3994			Anthony	CARC	Purcell and Panel 3
XXXII	4000-03	Apr. 18		Anthony		Purcell and Panel 3
	4003-17			Bell	NWT IB/MA	Purcell and Panel 3
	4017-72			Bayly	COPE/ITC	Purcell and Panel 3
	4075-4160			Scott	MVPI	Purcell and Panel 3
XXXIII	4372-73	Apr. 21		Dau	CAGPL	When to start construction panel
XXXIV	4386-4517	Apr. 22		Veale	CYI	Dau and Panel 4
	4517-42			Hollingsworth	Foothills	Dau and Panel 4
XXXV	4544-4600	Apr. 23		Hollingsworth		Dau and Panel 4
	4601-44			Bell		Dau and Panel 4
	4645			Goudge	MVPI	Specific information given early to allow preparation

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XXXVI	4674-77	May 12	YK	Genest	CAGPL	Should proceed with construction panel
	4685-86			Lucas	CARC	CARC not prepared for construction panel
	4695			Hollingworth		CARC can recall panel for cross examination
XXVII	4703	May 13		Bell	NWT IB/MA	Future cross examination
	4723-37			Bell		Dau and Panel 4
	4737-4821			Bayly		Dau and Panel 4
XXXVIII	4822-43	May 14		Bayly		Dau and Panel 4
	4843-4892			Lucas	CARC	Dau and Panel 4
XXXIX	5004-58	May 15		Goudge	MVPI	Operations and Maintenance Panel
	5059-67			Lucas		Dau, O'Rourke and Williams
XXXIX	5067-5178	May 15		Scott	MVPI	Dau, O'Rourke and Williams
41	5285-5311	May 20		Hollingworth	Foothills	Operations and Maintenance Panel
	5311-24			Templeton	EPB	Operations and Maintenance Panel
	5325-65			Lucas	CARC	Operations and Maintenance Panel
	5368-84			Bayly	COPE/ITC	Operations and Maintenance Panel
42	5387-5421	May 20		Bayly	COPE/ITC	Operations and Maintenance Panel
	5422-5527	May 21		Scott	MVPI	Operations and Maintenance Panel
43	5593-5705	May 22		Gibbs	Foothills	Horte
	5705-19			Templeton	EPB	Horte
44	5722-36	May 23		Templeton		Horte
	5736-5828			Bell	NWT IB/MA	Horte
	5828-69			Bayly	COPE/ITC	Horte
45	5883-5965	May 24		Bayly		Horte
	5966-93			Scott		Horte
48	6450	June 4		Berger		Possibility of EPB panel being recalled
49	6455-6506	June 5		Gibbs		Horte
	6508-6616			Anthony	CARC	Horte
50	6622-44	June 6		Anthony		Horte
	6669-99			Veale	CYI	Horte
	6699-6744			Scott		Horte
56	7804-75	Aug. 18		Scott		Horte
57	7948-8004	Aug. 19		Goldie	CAGPL	Blair
	8006-112			Goldie		Blair
58	8116-42	Aug. 20		Goldie		Blair
	8143-80			Templeton		Blair
	8180-204			Anthony		Blair
	8214-37			Bell		Blair
	8237-52			Lane	COPE/ITC	Blair
	8253-96			Scott		Blair
59	8390-467	Aug. 21		Marshall	CAGPL	Foothills Panel 3
	8467-72			Anthony		Foothills Panel 3
	8472-8			Bell		Foothills Panel 3
	8478-80			Lane		Foothills Panel 3
	8480-1			Scott	MVPI	Foothills Panel 3
60	8485-88	Aug. 22		Scott		Foothills Panel 3
51	6827-72	Aug. 11	WH	Gibbs	Foothills	Dau, O'Rourke, Williams, Clark, Hemstock, Banfield, Trusty
	6872-81			Anthony	CARC	Dau, O'Rourke, Williams, Clark, Hemstock, Banfield, Trusty
52	6882-6960	Aug. 12		Anthony		CAGPL Panel (Alternate Route)
	6971-7020			Veale	CYI	CAGPL Panel (Alternate Route)
	7021-56			Templeton	EPB	CAGPL Panel (Alternate Route)

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	7078-7143			Bayly	COPE/ITC	CAGPL Panel (Alternate Route)
	7143-72			Goudge	MVPI	CAGPL Panel (Alternate Route)
	7209-22			Carter	CAGPL	Magistrate Sprecker
	7222-24			Hollingsworth	Foothills	Magistrate Sprecker
	7224-39			Bell		Magistrate Sprecker
	7239-46			Bayly		Magistrate Sprecker
53A	7309-27	Aug. 13		Marshall	CAGPL	CARC panel - alternate routes and Wildlife Range
	7327-32			Hollingsworth		CARC panel - alternate routes and Wildlife Range
	7334-40			Bayly		CARC panel - alternate routes and Wildlife Range
	7340-42			Veale		CARC panel - alternate routes and Wildlife Range
	7343-48			Goudge		CARC panel - alternate routes and Wildlife Range
	7348-50			Marshall	CAGPL	Re-examination of CARC panel - alternate routes and Wildlife Range
54	7401-27	Aug. 11		Marshall	CAGPL	Geist
	7428-31			Bayly	COPE/ITC	Geist
	7431			Veale	CYI	Geist
	7434-38			Goudge	MVPI	Geist
	7439-48			Berger		Banfield
	7555-88			Marshall	CAGPL	Weedon, Parker
61	8651-91	Sept. 15	YK	Marshall Panel 4	Foothills	Mirosh, Hensch, Lazerte
	8691-93			Bayly Panel 4	COPE/ITC	Mirosh, Hensch, Lazerte
	8693-99			Scott Panel 4	MVPI	Mirosh, Hensch, Lazerte
	8749-60			Panel 5 Marshall	Foothills	Mirosh, Bauer, Walker, Glockner
62	8763-88	Sept. 16		Panel 5 Marshall	Foothills	Mirosh, Bauer, Walker, Glockner
	8789-8823			Panel 5 Bayly	COPE/ITC	Mirosh, Bauer, Walker, Glockner
	8823-29			Mirosh Bell	NWT IB/MA	Foothills Panel 5
	8829-79			Panel 5 Scott		Mirosh, Bauer, Walker, Glockner
	8882-86			Panel 5 Marshall		Mirosh, Bauer, Walker, Glockner
	8903-41			Panel 6 Carter	CAGPL	Mirosh, Scrimmes
	8941-47			Panel 6 Bell	Foothills NWT IB/MA	Mirosh and Scrimmes
	8947-57			Panel 6 Bayly	COPE/ITC	Mirosh, Scrimmes
	8958-65			Panel 6 Scott	MVPI	Mirosh, Scrimmes
	63			9011-33	Sept. 17	
9033-60		Bayly		Foothills Panel 7		
9061-72		Scott		Foothills Panel 7 (Mirosh, Lazerte, Beer)		
9082-9113		Scott		Foothills Panel 7		
9153-9206		Marshall		Panel 8 Metallurgy - Hushion, Wetterberg, Shelton, Holsbaum		
9207-9225		Sept. 18	Marshall			
64	9226-28	Sept. 18		Bell		Foothills Metallurgy Panel
	9228-40			Bayly		Foothills Metallurgy Panel
	9241-65			Scott		Foothills Metallurgy Panel
	9265-67			Marshall		Foothills Metallurgy Panel
	9267-71			Bayly		Foothills Metallurgy panel

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64	9316-9400	Sept. 18	YK	Marshall	CAGPL	Foothills Geotechnical Panel 9	
	9401-36			Bayly	COPE/ITC	Foothills Geotechnical Panel 9	
	9436-51			Marshall		Foothills Geotechnical Panel 9	
65	9452-90	Sept. 19		Marshall		Foothills Geotechnical Panel 9	
	9494-587			Scott	MVPI	Foothills Panel 9	
66	9648-763	Sept. 22		Genest	CAGPL	Foothills Panel 10 (construction)	
	9777-9838			Bayly	COPE/ITC	Foothills Panel 10 (construction)	
67	9839-74	Sept. 23		Templeton	EPB	Foothills Panel 10 (construction)	
	9876-9901			Bell	NWT/B/MA	Foothills Panel 10 (construction)	
	9901-10025			Scott		Foothills Panel 10 (construction)	
68	10047-59	Sept. 24		Carter	CAGPL	Foothills Panel 11 (operations and maintenance)	
	10061-64			Bell		Foothills Panel 11 (operations and maintenance)	
	10064-82			Bayly		Foothills Panel 11 (operations and maintenance)	
	10083-10128			Scott		Foothills Panel 11 (operations and maintenance)	
	10135-47			Goudge	CAGPL	Williams, Dau	
	10147-58			Hollingworth	Foothills	Williams, Dau	
	10159-62			Bell		Williams, Dau	
	10163-70			Bayly		Williams, Dau	
	10179-82			Goudge		Williams, Dau	
	10188-93			Bell	NWT IB/MA	Templeton	
	10193-10202			Bayly	COPE/ITC	Templeton	
	10206-08			Hollingworth	Foothills	Templeton	
	10208-21			Genest	CAGPL	Templeton	
	10221-29			Goudge	MVPI	Templeton	
69	10270-93		Sept. 25		Hollingworth		Williams
	10294-368				Marshall	CAGPL	Williams
	10445-54				Bell		Owen
	10454-99			Bayly		Owen	
	10499-501			Marshall		Owen	
70	10502-32			Hollingworth		Owen	
71	10601-11	Oct. 14		Templeton	EPB	Longlitz	
	10612-88			Bayly		Longlitz	
72	10691-711	Oct. 15		Bayly		Longlitz	
	10712-15			Bell		Longlitz	
	10716-31			Marshall		Longlitz	
	10746-59			Templeton		Lewis	
	10759-67			Bayly		Lewis	
	10768-76			Marshall		Lewis	
	10788-812			Marshall		Adam	
75	11031-141	Oct. 20		Marshall		Parker, Weedon	
76	11142-79	Oct. 21		Marshall		Parker, Weedon	
	11179-206			Veale	CYI	Parker, Weedon	
	11211-24			Bell		Parker, Weedon	
	11224-47			Bayly	COPE/ITC	Parker, Weedon	
	11248-51			Hollingworth	Foothills	Parker, Weedon	
	11251-98			Scott	MVPI	Parker, Weedon	
	11298			Marshall	CAGPL	Hughes	
	11299-338			Scott		Hughes	
77	11378-79	Oct. 22		Bell	NWT IB/MA	Rutter	
	11379-410			Carter	CAGPL	Rutter	
	11410-17			Hollingworth		Rutter	
	11417-42			Scott		Rutter	

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	11504-33			Hollingworth	Foothills	Roed
	11533-66			Carter	CAGPL	Roed
	11566-608			Goudge	MVPI	Roed
79	11743-68	Nov. 3		Hollingworth		Dabbs, Minning
80	11769-847	Nov. 4		Hollingworth		Phase 2, environmental panel (CAGPL)
	11848-957			Anthony	CARC	Phase 2, environmental panel (CAGPL)
81	11962-12016	Nov. 5		Anthony		Physical environment panel (CAGPL)
	12016-22			Bell		Physical environment panel (CAGPL)
	12022-135			Bayly		Physical environment panel (CAGPL)
82	12137-55	Nov. 6		Bayly		Dabbs, Minning
	12163-205			Veale	CYI	Physical environment panel (CAGPL)
82	12205-07	Nov. 6	YK	Hollingworth	Foothills	Dabbs
	12207-12330			Scott	MVPI	Physical environment panel (CAGPL)
83	12331-48	Nov. 7		Scott		Dabbs
	12348-12522			Scott		Hemstock, Williams, Minning, McCart, Harlan
84	12523-80	Nov. 8		Anthony	CARC	Hemstock, Williams, Minning, McCart, Harlan
	12580-12609			Bayly	COPE/ITC	Hemstock, Williams, Minning, McCart, Harlan
85	12617-12708	Nov. 12		Bayly		McCart, Hemstock, Harlan, Williams
	12708-37			Scott		Harlan, Hemstock, McCart, Williams
85A	12741-12800			Scott		Harlan, Hemstock, McCart, Williams
86	12802-08	Nov. 13		Scott		Harlan, Hemstock, McCart, Williams
	12891-12991			Bayly		Foothills physical environment impact panel
	12992-13048			Gibbs	Foothills	Williams
	13050-54			Scott		Williams
	13059-13122	Nov. 14		Bayly		Foothills physical environment impact panel
	13123-98			Carter Marshall	CAGPL CAGPL	Foothills physical environment impact panel
88	13200-344	Nov. 17		Ryder Goudge	MVPI MVPI	Foothills panel, impact on physical environment
89	13530-70	Nov. 18		Gibbs		Dabbs
90	13571-670	Nov. 19		Anthony		CAGPL Environmental panel
	13671-722			Bayly		Dabbs
	13722-30			Goudge		Dabbs, Hemstock
	13731-66			Gibbs		Hemstock, McCart
91	13767-844	Nov. 20	YK	Anthony	CARC	McCart
	13845-92			Gibbs	Foothills	Dau
91	13893-95	Nov. 20	YK	Goudge	MVPI	Dau
	13898			Gibbs	Foothills	Dau
	13901-11			Bell	NWT IB/MA	McCart, Hemstock
	13912-55			Bayly	COPE/ITC	McCart
92	13956-14019	Nov. 21		Bayly		Banfield, Hemstock, McCart
	14019-59			Ryder	MVPI	Banfield, Hemstock, McCart
93	14065-101	Dec. 1		Ryder		Banfield, Gunn, Hemstock, McCart, Jakimchuk
	14101-24			Hollingworth	Foothills	CAGPL Environmental Panel
	14125-96			Bayly		CAGPL Environmental Panel
94	14204-359	Dec. 2		Bayly		CAGPL Environmental Panel
95	14360-523	Dec. 3		Bayly		Banfield, Gunn, McCart, Hemstock, Jakimchuk
96	14536-703	Dec. 4		Bayly		Banfield, Gunn, McCart, Hemstock, Jakimchuk
97	14720-34	Dec. 5		Bell	NWT IB/MA	Jakimchuk
	14734-821			Templeton	EPB	CAGPL environmental panel
	14822-61			Scott	MVPI	Jakimchuk, Gunn
	14862-15006	Dec. 8		Scott		Hemstock, Banfield, Gunn, Jakimchuk
	15133-35			Bell		Whitney, Bouckhout
	15135-85			Bayly		Bouckhout, Hayden, Finney, Whitney, Kondla
100	15186-270	Dec. 10		Bayly		Bouckhout, Hayden, Finney, Whitney, Kondla
	15271-83			Marshall	CAGPL	Bouckhout, Whitney
	15283-382			Scott		Bouckhout, Whitney, Hayden, Finney, Kondla

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101	15390-402	Dec. 11	YK	Scott	MVPI	Kondla, Hayden, Finney, Whitney, Bouckhout (Foothills)
	15473-510			Marshall Carter	CAGPL CAGPL	Zoltai, Peterson
	15511-33			Scott		Peterson, Zoltai
	15533-41			Lutes	Foothills	Zoltai
	15543-47			Lutes		Zoltai, Peterson
102	15547-87	Dec. 12		Bayly	COPE/ITC	Peterson, Zoltai
	15588-611			Ryder	MVPI	Peterson
	15660-65			Lutes		Novakowski
	15665-89			Bayly		Novakowski
	15689-96			Carter		Novakowski
	15696-705			Ryder		Novakowski
	15707			Lutes		Novakowski
103	15798-99	Dec. 15		Bell	NWT IB/MA	Stein
	15799-840			Marshall		Stein, Millen
104	15841-70			Bayly		Stein
	15878-975			Bayly		Stein, Steigenberger, Walker, Millen
105	15976-96	Dec. 17		Hollingworth	Foothills	Stein, Walker, Steigenberger, Millen
	15996-16073			Marshall		Stein, Walker, Steigenberger, Millen
	16074-125			Ryder	MVPI	Stein, Walker, Steigenberger, Millen
	16125-26			Hollingworth		Stein
106	16241-77	Dec. 18		Bayly		Lent
107	16283-336	Jan. 12		Anthony	CARC	Templeton, Adam, McTaggart-Cowan, Wilimovsky, Craik, Bliss, Gourdeau
	16365-406			Bayly	COPE/ITC	EPB Environmental Panel
108	16407-15	Jan. 13		Bayly		EPB Environmental Panel
	16415-21			Bell	NWT IB/MA	EPB Environmental Panel
	16421-60			Veale	CYI	EPB Environmental Panel
	16460-95			Hollingworth Marshall	Foothills	EPB Environmental Panel
	16496-532			Carter	CAGPL	EPB Environmental Panel
	16532-82			Scott	MVPI	EPB Environmental Panel
109	16583-726	Jan. 14		Scott		EPB Environmental Panel
110	16788-845			Bayly		Bergerud, Calef, Lent
	16845-67			Veale	CYI	Bergerud, Calef, Lent
	16867-80			Hollingworth		Bergerud, Calef, Lent
	16881-906			Carter		Bergerud, Calef, Lent
111	16907-31	Jan. 16		Carter		Calef, Bergerud
	16931-60			Ryder	MVPI	Calef, Bergerud, Lent
112	17072-116	Jan. 20	IN	Bayly	COPE/ITC	Bliss
	17116-24			Scott	MVPI	Bliss
113	17185-86	Jan. 21		Marshall	CAGPL	Hobart
	17186-266			Bayly		Hobart
	17267-76			Scott		Hobart
114	17302-07			Hollingworth	Foothills	Mainland
	17307-87			Bayly		Mainland, Stewart
	17388-417			Scott		Mainland, Stewart
115	17444-49	Jan. 23		Hollingworth		Faulkner, Serra
	17449-79			Bayly		Faulkner, Serra
	17481-85			Berger		Stewart
	17485-507			Bayly		Faulkner, Serra
	17507-29			Scott		Faulkner, Serra
	17551-55			Hollingworth		Stamberg, Scott, Guyn, Good
	17555-90			Bayly		Stamberg, Scott, Guyn, Good

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116	17605-31	Jan. 24	IN	Bayly	COPE/ITC	Scott, Stamberg, Guyn, Good
	17631-39			Scott	MVPI	Scott, Stamberg, Guyn, Good
	17655-73			Marshall	CAGPL	Appleton, Rempel, Webb, Wopnford
	17673-81			Hollingworth	Foothills	Appleton, Rempel, Webb, Wopnford
	17681-87			Bayly		Appleton, Rempel, Webb, Wopnford
	17698-733			Bayly		Appleton, Rempel, Webb, Wopnford
	17748-56			Bayly		Appleton, Rempel, Webb, Wopnford
117	17760-65	Jan. 26	IN	Bayly	COPE/ITC	Wopnford, Webb, Rempel, Appleton
	17766-815			Goudge	MVPI	Wopnford, Webb, Rempel, Appleton
	17833-74			Bell	NWT IB/MA	Sider, Tod, Wopnford
	17874-917			Bayly		Sider, Tod, Wopnford
118	17919-46	Jan. 27		Bayly		Sider, Tod, Wopnford
	17946-90			Goudge		Sider, Tod, Wopnford
	17991-99			Bell	NWT IB/MA	Czaja, Horsfield, Motyka
	17999-18066			Bayly		Czaja, Horsfield, Motyka
	18066-98			Goudge		Czaja, Horsfield, Motyka
	18098-102			Berger		Czaja, Horsfield, Motyka
119	18118-37	Jan. 28		Goudge		Shearer
	18137-40			Berger		Shearer
	18180-200			Goudge		Shaw
120	18260-308	Jan. 29		Goudge		Pimlott
	18339-50			Goudge		Martell
	18350-56			Goudge Berger		Martell
122	18552-64	Feb. 11		Hollingworth	Foothills	Stein
	18564-641			Evans	CARC	Barry, Stein, Sergeant, Grainger, Stirling
	18643-46			Marshall	CAGPL	Stein
122	18646-727	Feb. 11	IN	Goudge	MVPI	Percy, Barry, Stein, Grainger, Sergeant, Stirling, Smith
123	18753-55	Feb. 12		Hollingworth	Foothills	Yates, Elkin
	18755-70			Evans	CARC	Yates
	18770858	Feb. 12		Bayly	COPE/ITC	Yates, Elkin
	18858-67			Veale	CYI	Yates
	18867-68			Marshall	CAGPL	Elkin
124	18995-9005	Feb. 13		Veale		Milne, Lewis
	19005-16			Evans		Shearer, Lewis
125	19024-25	Feb. 14		Marshall		Shearer
	19026-80			Goudge		Lewis, Shearer
	19081-82			Evans		Lewis
126	19143-203	Feb. 16		Evans		Pettigrew, Logan, Snow
	19203-29			Hollingworth		Pettigrew, Logan, Snow
	19230-52			Marshall		Pettigrew, Logan, Snow
	19252-55			Berger		Snow
	19255-99			Goudge		Snow, Pettigrew, Logan
127	19345-71	Feb. 71	IN	Evans	CARC	Longlitz
	19371-74			Gibbs	Foothills	Longlitz
	19374-86			Goudge	MVPI	Longlitz
	19410-32			Evans		Monaghan
	19432-33			Gibbs		Monaghan
	19434-44			Goudge		Monaghan
	19444-45			Bayly	COPE/ITC	Monaghan
128	19478-91	Feb. 18		Evans		Trudeau
	19491-94			Gibbs		Trudeau
	19494-98			Marshall	CAGPL	Trudeau

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128	19498-521	Feb 18	IN	Goudge	MVPI	Trudeau
	19521-24			Evans	CARC	Trudeau
	19524-25			Bayly	COPE/ITC	Trudeau
	19528-43			Evans		Milne
	19544-53			Gibbs	Foothills	Milne
	19553-54			Marshall		Milne
	19554-88			Goudge		Milne
129	19639-61	Feb. 19		Gibbs		Speller
	19661-92			Evans		Inglis, Speller
	19692-719			Bayly		Inglis, Speller
	19719-30			Marshall		Inglis, Speller
130	19782-839	Mar. 16	YK	Gibbs		Hollingshead, Williams, Minning, Purcell, Clark, Cooper
131	19840-981	Mar. 17		Gibbs		CAGPL Engineering Panel
	19981-20006			Lane	COPE/ITC	CAGPL Engineering Panel
132	20008-14	Mar. 18		Lane	COPE/ITC	CAGPL Engineering Panel
	20014-152			Goudge	MVPI	CAGPL Engineering Panel
133	20165-207	Mar. 23		Bayly	COPE/ITC	CAGPL Engineering Panel
134	20207A-79	Mar. 24		Bayly	COPE/ITC	CAGPL Environmental Panel
	20280-347			Hollingworth	Foothills	CAGPL Environmental Panel
	20348-98			Scott	MVPI	CAGPL Environmental Panel
135	20417	Mar. 25		Scott		Cross-examination can take place on COPE/ITC evidence on western Arctic petroleum development
	20426-27			Bayly		Wants opportunity to cross-examine Jakimchuk re recommendations on mammals
	20429-513			Scott		CAGPL Environmental Panel
	20515-32			Hollingworth		CAGPL Environmental Panel
	20532-45			Bayly		Hemstock
	20546-64			Scott		Hemstock
136	20635-53	Mar. 26		Marshall	CAGPL	Sprague
	20653-59			Hollingworth		Sprague
	20660-77			Bayly		Sprague
	20677-78			Hollingworth		Sprague
	20718-21			Carter	CAGPL	Peet
	20721-30			Hollingworth		Peet
	20730-66			Bayly		Peet
137	20815-37	Apr. 5		Bayly		Davies
	20841-62			Hollingworth		Davies
	20862-70			Marshall		Davies
	20871-914			Goudge		Davies
138	20985-86	Apr. 6		Bell	NWT IB/MA	Simmons
	29086-21002			Hollingworth	Foothills	Simmons, Mossop, Stephen, Norton
	21002-35			Veale	CYI	Simmons, Mossop, Stephen, Norton
	21036-80			Bayly	COPE/ITC	Simmons, Mossop, Stephen, Norton
139	21081-196	Apr. 7		Bayly		Simmons, Mossop, Stephen, Norton
	21169-72			Carter	CAGPL	Stephen
	21173-76			Goudge		Re-examination of Mossop, Simmons
	21177-79			Bayly		Re-examination of Stephen
	21188-93			Carter		Heacock
	21193-96			Bayly		Heacock
	21196-203			Hollingworth		Heacock
	21262-76			Veale	CYI	Nicol
140	21277-79	Apr. 8		Carter		Nicol
	21279-85			Hollingworth		Nicol
	21286-98			Goudge		Nicol
	21446-75			Hollingworth		Allison, Usher, Cournoyca

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141	21480-513	Apr. 9	YK	Goudge	MVPI	Usher, Cournoyca, Allison
142	21559-98	Apr. 13		Bayly	COPE/ITC	Nortran program, Panel 1, Phase 4
	21598-624			Bell	NWT IB/MA	Panel 1, Phase 4
	21625-37			Sigler	NWT/CC	Panel 1, Phase 4
	21637-62			Scott	MVPI	Panel 1, Phase 4
143	21664-736	Apr. 14		Scott	MVPI	Panel 1, Phase 4
	21776-81			Sigler	NWT/CC	G. Manuel
	21781-87			Scott		G. Manuel
	21803-07			Scott		H. Cardinal
143-A	21867-69			Bayly		P. Russell
	21869-74			Sigler		P. Russell
	21874-78			Steeves	CAGPL	P. Russell
143-A	21878-86			Scott		P. Russell, R. Fumoleau
144	21935-37	Apr. 15		Bayly	COPE/ITC	D. Sanders
	219937-43			Sigler	NWT/CC	D. Sanders
	21943-47			Hollingworth	Foothills	D. Sanders
	21947-48			Steeves		D. Sanders
	21948-63			Scott		D. Sanders
	21963-65			Steeves		D. Sanders
	22072-76			Sigler		G. Barnaby
	22076-80			Scott		G. Barnaby
145	22153-60	Apr. 26		Hollingworth		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22160-73			Steeves		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22173-92			Scott		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22192-93			Steeves		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22202-08			Scott		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22208-10			Steeves		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
	22210-13			Scott		Rolfe, Brownstone, Draimin, Clarke, Menez, Smith
147	22350-78	Apr. 28		Sigler	NWT/AM	Young, Jones, Page, McCullum, Richardson
	22379-95			Steeves	CAGPL	Jones
	22395-470			Scott	MVPI	NWT witnesses
148	22539-40	Apr. 29		Bayly	COPE/ITC	Nahanni
	22540-67			Hollingworth	Foothills	Nahanni
	22567-76			Steeves		Nahanni
	22580-614			Scott		Nahanni
	22614-19			Steeves		Nahanni
	22673			Scott		Kodakin
149	22787-94	May 3		Goudge	MVPI	Ritter, Sitlichinli
	22798-800			Steeves		Ritter, Sitlichinli
150	22877-86	May 4		Hollingworth		Hills
	22887-900			Steeves		Hills
	22900-01			Hollingworth		Hills
	22901-04			Goudge		Hills
	22906-07			Sigler		Simpson
	22907-24			Hollingworth		Simpson
	22924-28			Steeves		Simpson
	22928-38			Goudge		Simpson
	22941-79			Sigler	NWT/AM	Bean, Cheezie, Kurszewski
	22980-23011			Hollingworth		Bean, Cheezie, Kurszewski
	23011-24			Steeves		Bean, Cheezie, Kurszewski
	23024-33			Goudge	MVPI	Bean, Cheezie, Kurszewski
	23033-35			Steeves	CAGPL	Bean, Cheezie, Kurszewski
	23035-37			Goudge		Bean, Cheezie, Kurszewski

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	23077-81			Goudge		Irving		
	23178-80			Bell	NWT IB/MA	Smith, Lueck		
	23181			Hollingworth	Foothills	Smith, Lueck		
	23188-204			Steeves	CAGPL	Smith, Lueck		
	23204			Goudge		Smith, Lueck		
	23208			Bell		Smith, Lueck		
	23210-11			Hollingworth		Smith, Lueck		
	23211-12			Steeves		Smith, Lueck		
152	23215-52			May 6		Hollingworth		Cruikshank, McClellan
	23252-94					Steeves	CAGPL	McClellan, Johns, Jacquot
	23313-27	Goudge				McClellan, Cruikshank		
	23350-61	Bayly	COPE/ITC			Notti		
	23361-64	Bell				Notti		
	23364-71	Hollingworth				Notti		
153	23472-507	May 7		Bayly		Sharpe		
	23509-11			Hollingworth		Sharpe		
	23512-22			Roland	MVPI	Sharpe		
155	23668-72	June 30		Bayly	COPE/ITC	Puxley, Watkins		
	23673-704			Hollingworth	Foothills	Puxley, Watkins		
	23705-10			Steeves	CAGPL	Puxley, Watkins		
	23712			Hollingworth		Puxley, Watkins		
	23712-13			Steeves		Puxley, Watkins		
	23714-20			Roland	MVPI	Puxley, Watkins		
	23720-23			MacQuarrie	MHA/NWT	Puxley, Watkins		
	23792-94			MacQuarrie		Forrest		
	23794-816			Hollingworth		Forrest		
	23816-24			Steeves		Forrest		
	23826-28			Goudge	MVPI	Forrest		
155-A	23863-89			Hollingworth		Jelliss		
	23891-93			Steeves	CAGPL	Jelliss		
	23893-99			Roland	MVPI	Jelliss		
156	23962-73	July 1		Goudge		Yazzie		
	23973-83			Goudge		Gillie		
	23984-87			Goudge		Kakfwi		
157	24020-30	July 5		Sigler	NWT/AM	Thompson		
	24031-35			MacQuarrie	MHA/NWT	Thompson		
	24036-48			Bayly		Thompson		
	24048			Steeves		Thompson		
	24049-53			Scott	MVPI	Thompson		
	24054-56			Bell	NWT IB/MA	Thompson		
158	24151-69	July 6		Bell		Hobart		
	24170-240			Scott	MVPI	Hobart		
	24272-92			Sigler	NWT/AM	Trusty		
	24292-95			MacQuarrie	MHA/NWT	Trusty		
	24296-97			Scott		Trusty		
159	24358-453	July 7		Sigler		Boorkman, D. Weinstein, J. Weinstein, Trusty		
	24399-401			Scott		Boorkman, D. Weinstein, J. Weinstein, Trusty		
	24453-96			Bayly	COPE/ITC	Boorkman, D. Weinstein, J. Weinstein, Trusty		
	24497-526			MacQuarrie		Boorkman, D. Weinstein, J. Weinstein, Trusty		
	24534-620			Scott		Boorkman, D. Weinstein, J. Weinstein, Trusty		
160	24658-71			Bayly		Asch, Rushforth		
	24671			Steeves	CAGPL	Asch, Rushforth		

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	24713-65			Scott	MVPI	Asch, Rushforth
161	24828-916	July 12		Bayly	COPE/ITC	Trusty, Williams, Hollands, Carlson
	24917-29			MacQuarrie		Trusty, Williams, Hollands, Carlson
162	24930-44	July 13		Bayly		Trusty, Williams, Hollands, Carlson
	24944-66			Hollingworth	Foothills	Trusty, Williams, Hollands, Carlson
	24967-85			Reesor	NWT/AM	Trusty, Williams, Hollands, Carlson
	24985-5047			Goudge	MVPI	Trusty, Williams, Hollands, Carlson
163	25194	July 14		Bell		Trusty, Hobart
	25195-211			MacQuarrie	MHA/NWT	Trusty, Hobart
	25211-55			Reesor	NWT AM	Trusty, Hobart
	25256-79			Bayly	COPE/ITC	Trusty, Hobart
164	25322-438	July 15		Bayly		Trusty, Hobart
	25438-98			Roland	MVPI	Trusty, Hobart
165	25594-634	July 19		Reesor		Burrell, Ellwood, Jensen, MacLeod
	25634-42			MacQuarrie	MHA/NWT	Burrell, Ellwood, Jensen, MacLeod
	25643-50			Bell	NWT IB/MA	Burrell, Ellwood, Jensen, MacLeod
	25651-59			Lane	COPE/ITC	Burrell, Ellwood, Jensen, MacLeod
	25659-77			Scott	MVPI	Burrell, Ellwood, Jensen, MacLeod
166	25680-90	July 20		MacQuarrie		Ellwood, Jensen, MacLeod
	25691-762			Scott		Burrell, Ellwood, Jensen, MacLeod
	25763-72			Steeves	CAGPL	Burrell
167	25958-67	July 21		Bell		Beakhust, Brody, Usher
	25968-6008			Hollingworth		Beakhust, Brody, Usher
	26009-58			R. MacQuarrie	MHA/NWT	Beakhust, Brody, Usher
168	26064-91	July 22		Goudge	MVPI	Beakhust, Brody, Usher
	26106-09			Goudge		Beakhust, Brody, Usher
	26110-12			J. MacQuarrie	MHA/NWT	Beakhust, Brody, Usher
	26112-15			Goudge		Beakhust, Brody, Usher
	26122-78			Bell	NWT IB/MA	Brody
	26178-93			MacQuarrie	MHA/NWT	Brody
	26193-204			Bayly	COPE/ITC	Brody
169	26326-39	July 23		Bayly		Stanley, Ruttan
	26340-56			Hollingworth	Foothills	Ruttan, T'Seleie
	26356-67			Goudge	MVPI	Stanley, Ruttan
170	26456-70	Aug 16		MacQuarrie		Burrell, Jensen, Ellwood, Deyell
	26470-92			Bayly		Burrell, MacLeod, Jensen
	26492-514			Sigler	NWT/AM	MacLeod, Ellwood, Burrell
171	26516-65	Aug 17		Goudge		Burrell, Jensen, Ellwood, MacLeod, Deyell
	26566-75			Bayly		Burrell, Jensen, Ellwood, MacLeod, Deyell
	26619-73			Sigler		Dixon
	26673-96			Bayly		Dixon
172	26697-742	Aug 18		Bayly		Dixon
	26746-50			Hollingworth		Dixon
	26750-55			Sigler		Dixon
	26794-821			Sigler		McDiarmid
	26866-77			MacQuarrie		Dittrich
	26877-86			Hollingworth		Kyllo
173	26891-923	Aug 19		Steeves	CAGPL	Kyllo, Dittrich
	26925-55			Hollingworth		Dittrich
174	27053-69	Aug 20		Steeves		Lainsbury, Dusel, Dalby
	27070-71			Hollingworth		Lainsbury, Dusel, Dalby
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	27100-35			Goudge	MVPI	Lainsbury, Dusel, Dalby
	27152-92			Steeves	CAGPL	Blair
	27194-209			Sigler	NWT/AM	Blair
	27209-17			Goudge		Blair
175	27278-92	Aug. 23		Carter	CAGPL	Hinchey, Ashton, MacLeod
	27293-335			Bayly	COPE/ITC	Hinchey, Ashton, MacLeod
	27335-53			Roland	MVPI	Hinchey, Ashton, MacLeod
176	27428-48	Aug. 24		Sigler		Button, Robinson
	27449-82			Scott	MVPI	Button, Robinson
177	27493-96	Aug. 25		Hollingworth	Foothills	Wood
	27496-99			Bayly		Wood
	27499-502			Steeves		Wood
	27500-01			Scott		Wood
	27541-44			Bayly		Galloway, Purdy, Schauerte
	27544-50			MacQuarrie		Galloway, Schauerte, Purdy
	27550-54			Steeves		Galloway, Schauerte, Purdy
	27554-72			Scott		Galloway, Schauerte, Purdy
178	27612-38	Aug. 26		Bayly		Merrett, Pritchard
	27638-40			Veale	CYI	Merrett, Pritchard
	27640-47A			MacQuarrie		Merrett, Pritchard
	27648-60			Sigler		Merrett, Pritchard
179	27759-88	Aug. 27		Sigler	NWT/AM	Lowing, Runge
	27789-803			Bayly	COPE/ITC	Lowing, Runge
	27804-15			MacQuarrie	MHA/NWT	Lowing, Runge
	27815			Steeves	CAGPL	Lowing, Runge
180	27871-86	Sept. 7		MacQuarrie		Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi
	27889-915			Steeves		Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi
	27917-8015			Bayly		Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi
181	28052-83	Sept. 8		Bayly		McCambly, LeClair
	28153-77			Bayly		Mitchell, Reimer, Nousiainen
	28198-203			Steeves		Breckenridge, McRae
	28203-07			Hollingworth	Foothills	Breckenridge, McRae
	28207-10			Sigler		Breckenridge, McRae
	28210-24			Bayly		Breckenridge, McRae
182	28294-304	Sept. 9		Sigler		Clayton, McCombs, Forth
	28305-60			Bayly		Clayton, McCombs, Forth
	28360-61			Goudge	MVPI	Clayton, McCombs, Forth
183	28403-08	Sept. 10		Sigler		Clarke
	28408-12			Goudge		Clarke
184	28488-95	Sept. 14		Sigler		Atcheson, Kehoe
	28512-27			Steeves		Atcheson, Kehoe
	28528-37			Scott	MVPI	Atcheson, Kehoe
185	28732-34	Sept. 15		Steeves	CAGPL	Hildes, Mayhall, Schaefer, Cass, Noble
	28734-86			MacQuarrie	MHA/NWT	Hildes, Mayhall, Schaefer, Cass, Noble
	28787-815			Scott	MVPI	Hildes, Mayhall, Schaefer, Cass, Noble
186	28827-71	Sept. 16		Bayly	COPE/ITC	Basham, Braden
	28937-47			Sigler	NWT/AM	Snowden, Currie
	28948-51			Bell	NWT IB/MA	Snowden
187	29017-33	Sept. 17		Sigler		Raddi, Bruce
	29033-64			MacQuarrie	MHA/NWT	Raddi, Bruce
	29064-69			Hollingworth	Foothills	Raddi, Bruce

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	29114-17			Steeves	CAGPL	Falk
188	29123-25	Sept. 21		Noble	COPE	Searle
	29125-31			Steeves		Searle
189	29253-55	Sept. 22		Scott	MVPI	Lincoln
	29278-83			Scott		Nickerson, Lafferty
	29312-33			Bayly	COPE/ITC	Hill
	29333-51			Scott		Hill
	29392-409			Bayly		Smith, MacLeod, Robertson
	29409-25			Scott		Smith, MacLeod, Robertson
	29451-53			Ziskrout	CAGPL	Goulet, Harris
	29453-61			Bayly		Goulet, Harris
	29461-65			Scott		Goulet, Harris
189A	29532-52	Sept. 27		Sigler	NWT/AM	Worl, Worl, Neakok, Buchholdt
	29552-71			Scott	MVPI	Worl, Worl, Neakok, Buchholdt
190	29585-91	Sept. 23		Scott		Ganske
	29627-36			Scott		Wasyk, Bennett, Roska, Feilden
	29684-97			Scott		Fogg, Fergusson, Taylor
	29714-29			Scott		Henne, Robertson
191	29809-24	Sept. 24		Bayly	COPE/ITC	Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans
	29824-45			Sigler		Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans
	29845-71			Scott		Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans
192	29937-44	Oct. 4		Sigler		Baring-Gould, Bennett
	29944-61			Bayly		Baring-Gould, Bennett
	30012-35	Oct. 4		Veale	CYI	Krauss, Ritter
	30036-50			Bayly		Krauss, Ritter
	30050-59			Ziskrout	CAGPL	Krauss, Ritter
193	30206-34	Oct. 5		Bayly		EPB Panel
	30235-48			Veale		EPB Panel
	30248-62			Steeves	CAGPL	EPB Panel
194	30272-73	Oct. 6		Goudge	MVPI	Butters
	30285-325			Hollingworth	Foothills	EPB Panel
	30326-45			Goudge		Doyle, Templeton
	30371-83			Bayly		Hemstock
	30384-401			Veale		Hemstock
	30402-09			Hollingworth		Hemstock
	30424-34			Bayly	COPE/ITC	Lipsett, Wylie
	30435-39			Hollingworth	Foothills	Wylie
	30440-46			Goudge	MVPI	Wylie, Lipsett
195	30463-71	Oct. 7		Bayly		Mirosh
	30471-573			Steeves	CAGPL	Mirosh, Byers, Kosten
	30574-83A			Goudge		Mirosh, Byers, Kosten
	30647-80			Veale	CYI	Johanson, Fowler, Walker, Dau, Daniels
195A	30681-709	Oct. 7		Bayly		Fowler, Daniels, Rymes, Dau, Johanson
	30709-60			Hollingworth		Walker, Daniels, Dau, Fowler, Rymes, Johanson
196	30886-907	Oct. 12		Bayly		Thompson, MacLeod, Skinnarland
	30908-12			MacLachlan	Foothills	Thompson, MacLeod, Skinnarland
	30912-27A			Steeves	CAGPL	Thompson, MacLeod, Skinnarland
	30928-72			Scott	MVPI	Thompson, MacLeod, Skinnarland
197	31010-21	Oct. 13		Bayly		Bergasse
	31026-77			Veale		Norton
	31100-09			Bayly		Rogol
	31109-13			Veale		Rogol
	31117-49			Bayly		Norton

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CROSS-EXAMINATION OF WITNESSES

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197	31150-53	Oct. 13	YK	Hollingworth	Foothills	Norton
198	31309-73	Oct. 14		Bayly	COPE/ITC	Forth, Gates, Carnew, Witty, Sterling
	31373-84			Veale	CYI	Forth, Gates, Carnew, Witty, Sterling
	31384-404A			MacQuarrie	MHA/NWT	Forth, Gates, Carnew, Witty, Sterling
198A	31448-51	Oct. 14		Bayly	COPE/ITC	Christie, Nicholson, Schulz
	31451-53			Hollingworth	Foothills	Christie, Nicholson, Schulz
199	31588-99	Oct. 15		MacQuarrie	MHA/NWT	Beakhust, Zemansky
	31599-605			Scott	MVPI	Beakhust, Zemansky

CULVERTS

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XX	2394	Mar. 18	YK	Clark	CAGPL	Used to carry ground water through frost bulb and prevent icings forming
XXII	2598-99	Mar. 20		Clark		Interception of icings
	2602-05			Clark		Insulated conduit through frozen area
	2626-27			Clark		Fish over-wintering, sub-surface flow, freezing, insulated pipe
XXIII	2727-35	Mar. 21		Clark		Culvert size - buildup of ice, frost bulb, insulation
XXVI	3152-53	Apr. 9		Clark		Sub-surface drainage
XXVIII	3481-3497	Apr. 11		Scott Clark	MVPI	Through frost bulbs; selection of size
	3555-56			Morgenstern	CAGPL	Drainage, frozen ground, slope stability
XXXVIII	4903	May 14		Williams	CAGPL	Great Bear River Crossing, culverts in berm
XXXIX	5081-91	May 15		Williams		To maintain flow of water for fish
47	6162-64	June 3		Willimovsky	EPB	Can cause erosion and flooding, baffles fish movement
C-11	93-96	Apr. 3		F. Joe	Citizen	Culverts in Rengleng River, Dempster Highway collapsed
64	9419	Sept. 18		Spafford	Foothills	Culvert method to divert winter flow in small streams from pipeline area
70	10592	Sept. 26		Lewis	MVPI	Culvert solution; testing
72	10747-57	Oct. 15		Lewis		Discontinuous permafrost areas; surface and sub-surface hydraulic gradients; culvert through frost wall or frost bulb; Battelle model
73	10967-69	Oct. 16		Harlan	CAGPL	CAGPL research; Dr. Lewis' testimony; Battelle program; Malcolm and Firth rivers
79	11739-40	Nov. 3		Harlan	CAGPL	Use of insulated culverts to maintain subsurface flow
81	11981-82	Nov. 5		Clark	CAGPL	Use of insulated culverts to allow drainage through frost bulb
82	12275	Nov. 6		McCart	CAGPL	Concern re: obstruction of fish migration
84	12534-39	Nov. 8		Anthony Williams McCart Harlan	CARC CAGPL	Culverts through frost bulb, ground water flow, North Slope rivers
	12571-79			Anthony Williams McCart Hemstock	CAGPL	Culverts under road crossings of streams
88	13308-12	Nov. 17		Claridge	Foothills	Water by-pass methods, river crossings
88-A	13386	Nov. 17		McCart		Obstruction of fish passage; culverts through river crossing berms for fish
90	13742-63	Nov. 19		McCart		Installation through river crossing berms to aid fish migration
91	13819	Nov. 20		McCart		At river crossings with winter water flow
	13954			McCart		Problems on Mackenzie Highway
92	13988-95	Nov. 21		McCart		Baffled and unbaffled; swimming performance of fish; various shapes; culverts in Rengleng river; impact on benthic organisms; preference for bridges
93	14065-68	Dec. 1		McCart		Facilitation of fish passage; location south of Travaillant Lake
134	20347	Mar. 24		McCart		If cross-Delta and coastal routes built in summer, culverts under road a problem for fish

CULVERTS (continued)

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194	30395-96	Oct.6	YK	Hemstock	CAGPL	No contingency plans for culvert freeze-up
197	31127-29	Oct.13		Norton	MVPI	Problems of thawing culverts with kerosene heaters in Alaska

CURRENT WHITE-NATIVE RELATIONSHIPS

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167	25869-76	July 21	YK	Brody	COPE/ITC	Misunderstanding of native traditional ways; problems between policy-makers and natives; native attitudes to whites, the south; frontier situation, ethic
	25897			Usher	COPE/ITC	Natives, whites not equal; native dependency; dominance of administrative elite; ethnic based class structure
	25913-22			Usher		Native dependence, obligations; metropolis, hinterland relationship; frontier clash of values
	25959-64			Brody		Retreatism of natives; impact of northern society of whites; attitudes in egalitarian work situations
	26051-55			Usher		White, southern antagonism to land claims settlement; Canadian system, lack of national support for special rights for any group
168	26071-77	July 22		Brody		Misunderstandings at the frontier
	26107-12			Brody		Kinds of sociological investigations; need for whites to learn native languages
C-72	8081-82	Aug. 11	PF	A. Arrowmaker	Citizen	Intention of government to have native people become white people
C-74	8258	Aug. 13		H. Simpson	Citizen	Ignoring native objections, optimism about Inquiry
C-75	8320	Aug. 21	CI	B. Orlias	Citizen	Powerless against whites
C-77	8437	Aug. 21	DFT	Chief Charlo	Citizen	Must work together as brothers and sisters
182	28370	Sept. 9	YK	Clarke	COPE/ITC	Housing standards for native and non-native
184	28431-33	Sept. 14		Atcheson	COPE/ITC	Friction as result of difference in living conditions; feeling of inferiority by natives
	28490-91			Kehoe	COPE/ITC	Recognition of different values
	28496-97			Berger Kehoe		Delimiting race concept
185	28716-27	Sept. 15		Cass	COPE	Lack of communication, language barrier; feelings of inadequacy; diseases caused by mixed blood
189	29444-45	Sept. 22		Harris	NWT/AM	Inability of natives and whites in Fort Simpson to work together in developing recreational programs
192	29979-80	Oct. 4		Krauss	MVPI	Influx of whites into native communities causes language loss; assimilation not integration

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C-28	2834	Sept.11	WR	Lousson	Citizen	Bishops of Canada statement re natives consulted before development, and involved in development
C-29	2865-68 2875-76	Sept.12	JMR	Kazon Lafferty	Citizen Citizen	Development contract, operating sawmill Participation in human and other resource developments in north
C-32	3047-48 3069 3219-23 3228-30	Oct. 8	FR	Slavic McConnell Caduski Cheezie	Citizen Citizen Citizen Citizen	Opportunities in Syncrude development, frustration of natives to participate Need for control to overcome problems Native control over development Control over decisions, a chance to make a choice re: development
C-34	3353	Oct. 16	YK	Castille	Citizen	Northern people's involvement in northern pipeline
C-35	3406	Oct. 22	LI	Hasen	Citizen	Native input re: economic development, land, water use, servicing and maintenance of pipeline
C-36	3483-90 3557	Jan. 28 Jan. 29	In.	B. Allen Binder	Citizen Citizen	Natives' desire to develop north in their own ways; input re: camp site location, regulations Native control of development
C-37	3595-600	Feb. 10		Usher	Citizen	Natives - special status re voting rights; native right to retain identity, control resource development; just land claim settlement
C-39	3717-18 3723 3736 3738	Feb.18		Hill Hill Kisoun Kisoun	Citizen Citizen Citizen Citizen	Involvement in planning, route selection, financing, and construction of pipeline; training for skills and qualifications Contract bids encouraged from native organizations; involvement of resident business in pipeline contracts Participation of youth in pipeline decisions Planning and controlling development, involvement of native youth
113	17211-25	Jan.21		Hobart	GPC-D	Native input into decisions affecting them, Delta area
116	17689-92	Jan.24		L.Pederson	Citizen	Northern participation in development, employment
140	21392-98 21420-26 21442-46	Apr.8	YK	Noble Usher Cournoyea	COPE/ITC COPE/ITC COPE/ITC	Failure of Regional Planning committee to consult communities on regional plan Community consultation - development - native input in decision making absent, inability to veto proposals Lack of meaningful consultation between northern communities, government, and petroleum industry; native input not recognized
141	21482-85 21510-11	Apr.9		Usher Cournoyea		Need for control at local level, improvements in consultation process Futility of native/DIAND consultation re resource exploratory permits
143	21764-69 21781-85	Apr.14		Manuel Manuel	N.I.B.	Lack of self-determination; Maori representation in New Zealand government Political status of Maori; participation of native people in future developments
143-A	21851-59	Apr.14		Russell	NWT IB/MA	Need for Dene role in matters regarding land use, development; federal legislation could delegate decision - making powers; proposed self-governing institutions
144	21899 21939-40 21978 22002 22016-26	Apr.15		Sanders Sanders Saul Barnaby Kurszewski Cheezie	NWT IB/MA NWT IB/MA NWT IB/MA NWT IB/MA NWT IB/MA NWT IB/MA	Early decisions made by the local colonial authority Colonial legal tradition; role as allies; recognition as subjects vs. allies Africa, greater role for people in an independent nation than under colonial system Native people have no say in what is happening to their land; land claims designed to gain recognition of right to self-determination Municipal elections, Fort Smith; native participation, representation; Territorial Department of Local Government

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144	22027-55	Apr. 15	YK	Bean	NWT IB/MA	Territorial Department of Local Government; Settlement Councils, native participation, representation; growth of local government structures
	22056-66			Bean		Increasing native dependence on non-native experts; no role for native people on imposed settlement councils
	22073-80			Barnaby	NWT IB/MA	Native people would have different priorities if they have control of territorial government
145	22109	Apr. 26		Brownstone	NWT IB/MA	Dene need self-determination in order to decide on development priorities
	22142-43			Clarke	NWT IB/MA	No native involvement in development planning, Brazil
	22186-95			Clarke		Need for sense of power and involvement
146	22262-67	Apr. 27		McCullum	NWT IB/MA	Native people not involved in the decision making process regarding major development projects; all they can do is react to decisions; violence
147	22371-72	Apr. 28		Young	NWT IB/MA	Ensure native decisions in planning stages of major development schemes
	22414-17			Richardson	NWT IB/MA	Decision making process in band councils, related to that of the corporation, James Bay
	22424-28			Richardson		Native decision as to use of wild animals, suggestion of selling hunting rights by natives to sports hunters
	22440-41			Young		Participation in planning regarding environmental impact, employment
	22447-49			Young		Recognition of rights, planning participation, Dene; Manitoba; James Bay, hydro development
	22485-86			Nahanni	NWT IB/MA	Laws affecting native way of life, native consent not asked for
	22494-504			Nahanni		Land Use and Occupancy Research, to give the Dene experience and point of view, native input into the research
	22517			Nahanni		Native choice as to relevant forms of economic development
148	22572-74	Apr. 29		Nahanni		Desire for total native control of incentive program for trappers
	22612-13			Scott	MVPI	Must wait for final outcome from Dene Land Claims issue
	22713-14			Asch	NWT/IB/MA	To minimize economic and social impact, must allow natives to express final decision
	22736			Asch		With land settlement as under the Dene Declaration, natives able to regain economic, social and political control
149	22815-16	May 3		Simpson	NWT IB/MA	Colonial systems, government alien to traditions
	22847-48			Simpson		Need power to control
150	22906-07	May 4		Simpson		Need for control over decisions, timing of development
	22907-15			Simpson		Need for control over lands
	22932-28			Simpson		Need for institutionalized power structure
	22941-64			Kurszewski Cheezie	NWT IB/MA NWT IB/MA	Lack of understanding of election procedures
	22968			Bean	NWT IB/MA	Self-determination for the Dene
	22980-85			Bean		Territorial administration, control over people of the north
	22989-93			Bean		Pipeline would cause further Dene dependence on non-Dene experts
	23008-10			Cheezie		Native incomprehension of election procedures, Fort Smith
	23024-26			Goudge	MVPI	Hypothetical consensus model of local decision making
	23035-37			Bean	NWT IB/MA	Dene have not been allowed to make major decisions
151	23131-22	May 5		Cruikshank	CYI	Possible inability to adapt when not involved in decision making
	23136			Cruikshank		Native people not consulted before construction of Alaska highway
	23171			Smith	CYI	Incorporation of public shareholding company of native participation in decisions
	23183-87			Smith		Recommendation that native people choose the pipeline route

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152	23242-45	May 6	YK	Cruikshank	CYI	Yukon natives - no input into pipeline decisions, benefits
	23262-64			Jacquot	CYI	Native desire to develop economic, political power, control
	23269-79			Jacquot		Input - controls on hunting, trapping, fishing, health services, working conditions; native desire - majority share ownership in pipeline corporation
	23285-94			Jacquot		Desire for input - routing, crossings
C-40	3868-69	Feb.23	AK	Greenland	Citizen	Shell drilling without native approval on Western side of Richardson Mountains
C-41	3958-60	Mar.3	HOL	B. Goose	Citizen	Oil companies forget what native people want; a chance to voice native concerns, opinions
	3976-77			A. Goose	Citizen	Arctic Waters Oil and Gas committee, no native representative; the natives want to be heard; Government rushes them
	4014-15			W. Goose	Citizen	Native involvement in development, unity with all Canadians
C-42	4022	Mar.4	SACHS	Esau	Citizen	Oil companies working without notifying natives
	4052-55			A. Carpenter	Citizen	Seismic work without consultation with natives, meetings held without notifying native people
	4127-29			L. Carpenter	Citizen	Oil companies' disregard for native opinion; rise of radicalism to stop pipeline
	4130			Sydney	Citizen	Oil companies don't listen to native people
C-43	4146-47	Mar.7	NSH	J. Carpenter	Citizen	Will not be able to participate because of lack of schooling
C-44	4184	Mar.8	TUK	J. Steen	Citizen	Participation by natives if training school moved to Inuvik, pipeline work, closer to home
	4199-201			V. Steen	Citizen	Eskimo distrust of white man
	4220-21			Potiak	Citizen	Consultation with natives on layout of land
	4282-84	Mar.9		Noksana	Citizen	Unaware of seismic work starting, lack of leadership; Imperial didn't give them a chance to talk
	4310-12			Lemour	Citizen	Anxious to be part of development, need to keep identity
C-45	4383-88	Mar.10		Townsend	Citizen	People are not informed enough, do not have control; defining of goals needed; participation in pipeline jobs
	4408-09			H. Gruben	Citizen	Inuvik excluded from land claims
C-46	4438-45	Mar.11	PAUL	P. Green	Citizen	Inuit are experts on land and animals, should be consulted about development; lack of local involvement
C-47	4536-41	Mar.13	ARR	R. Andre	Citizen	Exploitation of land, ownership, development, control of land; royalties; Dene independence
	4597-604			A. Andre	Citizen	Traditional involvement, natives did not understand language; control kept from them by government; want to control development, game laws, labour union bargaining, oil spill clean-up, monitoring
C-48	4672-85	Apr.30	FS	G. Kurszewski	Citizen	Involvement of community in making major decisions
	4740-42			M. Beaulieu	Citizen	A chance to say something about development
154	23533-35	June29	YK	Puxley	NWT IB/MA	Colonial relationship, dominant society; need for independent Dene institutions
	23621-29			Watkins	NWT IB/MA	Right of Dene to own institutions; limitation of political rights to long-term residents
155	23717-18	June30		Puxley		De-colonization, length of time needed
	23762-63			Forrest	NWT IB/MA	Need for land claims settlement giving political control, input to pipeline decision

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156	23906	July1	YK	Gillie	NWT IB/MA	For education program to succeed, must have native control of process, control of environment and its resources
	23922-25			Gillie		Planning of education program in order to retain native cultural identity
	23939-42			Yazzie	NWT IB/MA	Parental involvement in school policy, curriculum development
C-40	4834-35	May 10	VAN	Farquhurson	Citizen	Need for equal status, bi-cultural society
C-50	4856-59	May 11		O'Brien	Citizen	Decisions over land use
	4921			Burrow	Citizen	Participation in development
	4951-52			Geddes	Citizen	Development of Arctic to include native input
	4992			Tanenbaun	Citizen	Choice of native self-determination or destruction of the people
	5013-14			Chark	Citizen	Creating autonomous regions in north
	5023			McCall	Citizen	Demands of Inuit, Dene to preserve traditional lifestyle
	5028-35			Hodgkinson	Citizen	Political control necessary to regulate use of resources, to control social, industrial and settlement patterns
C-51	5101	May 12		J. Stokes	Citizen	Want role in initial planning, resource development proposals
	5142-43			J. Wight	Citizen	Want to decide development questions
	5170			M. Sadler	Citizen	Need for self-determination, own institutions
C-52	5252	May 13	CAL	Father Gauthier	Citizen	Present system does not work for native people
	5256-58			E. Reid	Citizen	Request for self-determination
	5276-82			Chief Snow	Citizen	Need for self-determination, protection against future pressures
	5285-87			N. Llanos	Citizen	Control of own economic development
C-53	5487-88	May 14		Lusty	Citizen	Native people not given equal opportunity to decide or plan for their destiny
	5497-5506			Tyler	Citizen	Development projects should be under native decisions
	5504			Greyeyes	Citizen	Government and industry working for the public, though not asking public for their opinions
	5544-45			Crouteau	Citizen	Seeking rights to govern own affairs
C-54	5647-52	May 17	EDM	Kuhn	Citizen	Principles of Dene Declaration, self-determination, political security, economic independence, cultural survival
	5676-79			Laboucane	Citizen	Native desire for employment with decision making authority
	5737-38			Stewart	Citizen	Decisions over development will be difficult
C-55	5929-30	May 18		B. Jahrig	Citizen	No consultation, questions of resource development
	5960			K. Vandergrift	Citizen	Need for native control of economic development
	5980-82			G. Mossman	Citizen	Natives, meaningful representation, decision process
C-56	6058	May 19	REG	J. Pilling	Citizen	Further development under control, influence, native people
	6072-73			P. Gatlagher	Citizen	Need for self-determination, self-governing institutions
	6083-84			P. Prebble	Citizen	Federal government, lack of consultation
	6139			G. Ledingham	Citizen	With native control, better protection of the environment
C-57	6241	May 20	WIN	M. Haave	Citizen	Suggestion that pipeline decision already made prior to discussion
	6250			H. Spence	Citizen	Northern Manitoba hydroelectric project, natives not involved in planning
	6291-92			R. Johnstone	Citizen	Control over northern development, public participation encouraged
C-59	6416-17	May 26	TOR	N. Zlotkin	Citizen	Need to control land
C-60	6644-45	May 27		B. Loucks	Citizen	Need for Dene say in government, utilization of land
	6653-55			Sister Corinne	Citizen	Need to replace colonial system with native role in process

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C-60	6674-76	May 27	TOR	E. Welsh	Citizen	Need for native involvement, control of development; rights to self-determination, political autonomy
	6743-44			L. Maclean	Citizen	Need for economic base under Dene control; self-determination
	6757-58			C. Overvold	NWT IB/MA	No say in pipeline until agreement on land settlement
	6812-15			H. Fronius	Citizen	Rights to self-determination, control over future resource development
C-62	6896	May 31	MTL	Ciaccia	Citizen	Direct participation in formulation and supervision of laws and regulations, hunting, trapping, fish and environmental protection, James Bay Agreement
	6932-46			Ponting	Citizen	Study conducted to provide statistics on public opinion re development in north, environmental protection
C-63	7071-72	June 1		Chalough	Citizen	Development must be decided by native people; Dene, Inuit, best judges as to what should take place in their environment
	7074			Diamond	Citizen	James Bay Agreement, was a unanimous decision by Cree people
C-64	7201	June 3	OTT	Amagoalik	COPE/ITC	Inuit must be given opportunity to participate in development as full Canadians
	7220			Hatton	Citizen	Native people have not had decision making roles in northern development
C-65	7375	June 4		R. Voyer	Citizen	Pace of development leaves natives and local residents out of decision-making process re James Bay and Syncrude projects
	7415-18			Obonoswin	Citizen	Northern people need to become participating members of Canadian Society
	7471			F. Jobin	Citizen	Commending inquiry on being a comprehensive participative process
	7493			B. Shead	Citizen	Native people not involved sufficiently in policy making processes
	7549			M. Christie	Citizen	Native people wish to be consulted before development occurs
C-66	7609	June 7	CH	M. Boyd	Citizen	Government secrecy, decisions by "authorities"
	7638			J. Buster		Desire to control development
C-67	7712	June 8	HAL	K. Skerrett	Citizen	Must be involved in development
	7717-20			R. Gregoire	Citizen	Montagnais, Naskapi in Labrador, lack of consultation re development
	7764			M. Bradford	Citizen	Must be able to determine own future
157	24015-16	July 5	YK	Thompson	NWT IB/MA	Task force to review federal Indian Oil and Gas Regulations, lack of participation in development decisions, new Indian Northern Gas Act consequently
159-A	24616-19	July 7		Trusty	CAGPL	Native concern that control, amount of planning, further entrenchment of centralized government
160	24714-17	July 8		Asch	NWT IB/MA	Dene tradition of co-operation, sharing
	24727-34			Asch		Need for native community control in order to restore damage to traditional institutions
	24742-47			Asch		Need to resolve issues of control of, participation in development prior to pipeline
	24761-64			Rushforth	NWT IB/MA	Process of consensus
163	25125-26	July 14		Hobart	CAGPL	Need for sufficient resources in order to control portion of development
	25322-37			Hobart		Need for political control over land
164	25397	July 15		Hobart		Some consultation with native people taking place; white initiatives in planning
	25440-51			Hobart		Need for native participation, active development corporations
166	25712	July 20		Ellwood	Foothills	Native people should be ensured entrepreneurial opportunities
	25794-95			Brody	COPE/ITC	Agreement must be secured from native people to develop, though this involves much time
	25850			Usher	COPE/ITC	To maintain traditional sector, must have native control re land use planning

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167	25856-60	July 21	YK	Brody	COPE/ITC	Impact of missionaries, traders; acceptance of decisions by whites, fear of reprisals
	25923-33			Usher	COPE/ITC	Need for political majority, regional level; residency requirements for voting
169	26316-19	July 23		Ruttan	NWT IB/MA	Planning, implementation of renewable resource - based economy, involves native participation
	26337-38			Stanley	NWT IB/MA	Decision to work for a wage economy up to native people
C-68	7830-32	July 16	FP	J. Thom	Citizen	Need for Dene to control their own system, to have Dene community
	7913			A. Canadien	Citizen	Suggestion of meeting between pipeline companies and chief, band councillors
C-69	7943-44	July 17		H. Simba	Citizen	Outsiders, lack of consultation with local people
C-70	7982	Aug. 9	RF	J. Mackenzie	Citizen	Were not consulted before decision was made
C-71	8046	Aug. 10		T. McDermott	Citizen	Halfbreeds should decide if pipeline will be built
C-72	8064-68	Aug. 11		G. Erasmus	Citizen	Assimilation or self-determination; right to govern themselves
	8073-74			Chief Charlo	Citizen	Not involved in decisions about development
	8080			A. Arrowmaker	Citizen	Should be consulted about land use
	8088			T. Blondin	Citizen	Urges native people to prepare for control over development, education, economics, politics
	8093			A. Lisk	Citizen	Miners around Yellowknife did not consult natives; white people never have time
C-72	8101	Aug. 11		F. Pochat	Citizen	Supports native people in determining their future
	8113			J. Migwi	Citizen	Not consulted about Snare Hydro project
	8135-36			N. Black	Citizen	Government of native peoples not consulted before decisions
C-73	8171	Aug. 12	ITM	J. Roamie	Citizen	Communities should have discussed pipeline together; lack of communication between communities
	8199			I. Zoe	Citizen	Want control over education in own community
C-76	8374	Aug. 25	DFT	M. Noel	Citizen	Work together to decide future of north
	8376-79			P. Liske	Citizen	Fight to gain back control, role in molding development as southerners do not understand
C-77	8391-93	Aug. 27		J. Tobie	Citizen	Do not tell Dene future plans for NWT, should consult Chief or band council
172	26766-67	Aug 18	YK	McDiarmid	Citizen (COPE/ITC)	Desire for legitimate control of political institutions
	26774-91			McDiarmid		Carrothers Commission emphasized the value of citizen participation in local government; key issue to development
	26800-01			McDiarmid		More participation needed in Territorial Council
176	27418-21	Aug 24		Robinson	COPE/ITC	Lack of control in education
	27426-28			Robinson		Utilization of cultural understanding in education system
	27437-38			Robinson		Suggested voice on school boards
181	28142-43	Sept. 8		Reimer	MVPI	Need say in determining working conditions; need trade union representation
	28200-01			McRae	MVPI	Want control over destiny, differ in system envisioned with Labour Coordinating Committee
182	28247	Sept. 9		Forth	MHA/NWT	If people have control and choice in their environment, they will have good mental health
	28253			Forth		Consultation between companies and community councils re sites of camps and staging areas
	28317-20			Forth		Opportunity for native professionals to serve communities
	28394			Clarke	COPE	Opportunity for natives to develop housing programs
184	28435-41	Sept. 14		Atcheson	COPE/ITC	Contribution does not affect final verdicts, no control, needs to have final authority, control, responsibility

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184	28478-82	Sept. 14	YK	Atcheson	COPE/ITC	Resourcing leader to create model of development, utilizing traditional methods, greater control
	28529-33			Atcheson Kehoe	COPE	Involvement with health services, controlling development
185	28623	Sept. 15		Mayhail	COPE	Inuit and Indians must be involved in planning of dental health care
	28637-38			Noble	COPE	Encouragement of natives to participate in health care programs and education
	28673-77			Hildes	COPE	Native involvement in health care system, lower level positions; McGill Medical Journal report "Indian Involvement in Health Care Delivery"; local and regional participation
	28793			Schaefer	COPE	Native involvement on policy and planning level
186	28896-97	Sept. 16		Snowden	COPE/ITC	Historical 1950's, 1960's
187	29077-86	Sept. 17		Falk	NWT IB/MA	Doctrine of self-determination
	29094-98			Berger Falk		Self-determination in the U.S. by natives, blacks, Arabs in Israel
	29099-101			Roland Falk	MVPI	Self-determination of nation within a state; rise of aboriginal rights
189	29295-98	Sept. 22		Hill	NWT/AM	High degree of local involvement in community government; natives on Legislative Assembly
189A	29507-09	Sept. 22		R. Worl	COPE	Inupiat Borough Assembly ensures local control of governmental and social services; local health advisory boards, and Regional Advisory Boards in each village; problems in preparing for total local control; programs developed through control: The Barrow Child Advocacy Corporation and Barrow Council of Alcoholism
	29521-23			Berger R. Worl		North Slope Borough run by native people, involvement in communities
	29542-44			Sigler Mrs. Worl Neakok	NWT/AM COPE COPE	Voting in rural communities and urban populations; explaining instructions and procedures to vote
	29555-57			Buchholdt R. Worl	COPE	In-migrating whites make natives minority in community; risk of clash between in-migrating whites and native controlled government
192	30039-45	Oct. 4		Krauss	MVPI	Bilingual education gives control to native people; must be local control over television
197	31148-49	Oct. 13		Norton	MVPI	Lack of input in surveillance of Alyeska pipeline and ancillary facilities
198	31199-200	Oct. 14		Sterling	NVPI	Opportunities for native peoples to participate in project; definition of "northern resident"
	31311-12			Gates Witty	MVPI MVPI	Native representatives on Federal Territorial Manpower Needs Committees
	31315-17			Gates Forth		Native input into National Native Employment Advisory Council; problems obtaining native input into Northern Careers program
	31343-44			Sterling	MVPI	Lack of native involvement on Yukon Industry committees
	31379-82			Sterling		Lack of native participation on Yukon Mining Industry Committee, Petroleum Industry Committee, Committee on Employment of Native Northerners
202	31876-96	Nov. 17		Bayly	COPE/ITC	Native people must control their land, communities, institutions; selection of land for traditional activities, parks, changes in fishing, hunting regulations, land use planning commission; Mackenzie Valley Pipeline Authority
	31907-18			Bayly		Community consultation, participation in pipeline, environment, social, economic studies, developments
	31924-48			Bayly		Control over pipeline workers, transients, hunting permits, business and real estate; local governments; social, health programs; alcohol policies, programs; law enforcement; education; recreation, regional, community planning; legislation review

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203	32123-26	Nov.18	YK	Veale	CYI	Land claims settlement will give native people control over way of life, land; local community with own government structure; participation of land use agencies with native people; choice to participate in development or not
	32159			Veale		Community control of in-migration
	32208			Bell	NWT IB/MA	Dene right to self-determination
204	32253-54	Nov.19		Hardy	NWT IB/MA	Establishment of Metis Development Corporation
	32321-23			Parker	NWT Govt.	Community influence on land use decisions; wildlife management by Game Advisory Council

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154	23623	June29	YK	Watkins	NWT IB/MA	Corporate argument that large projects benefit the public; national vs. regional interests
C-49	4784	May 10	VAN	Scoten	Citizen	Recognition of hearing the Canadian public viewpoint
	4840-44			Lewis	Citizen	Public view needed to be taken seriously
	4936-50			D'Easum	Citizen	Public participation should be carried through construction phase, watchdog agency for environmental affairs
C-52	5228-29	May 13	CAL	R. Sykes	Citizen	Participation in the inquiry, possible future effects
	5310-13			D. Pimlott	CARC	Government funding for public interest organizations
C-53	5570-71	May 14		Blair	Foothills	Northerners wanting to be included on Board of Directors of pipeline companies
C-54	5599	May 17	EDM	Leadbeater	Citizen	Supporting the Inquiry as a source of education and expression of democratic heritage
C-56	6042-45	May 19	REG	P. Black	Citizen	Proposed public ownership, corporation building pipeline; benefits to the north
	6101-04			F. Tompkins	Citizen	Mississippi Committee, participation, decision making, Churchill River project
C-57	6265	May 20	WIN	B. Teixeira	Citizen	Northern Manitoba hydroelectric project, inadequate public participation
C-59	6391-92	May 26	TOR	M. Hummel	Citizen	Need for extensive participation
	6513-14			C. Godfrey	Citizen	Denial of access to information
C-60	6659-65	May 27		M. Bell	Citizen	Limited information; apathy of Canadian people
	6678-80			E. Welsh	Citizen	Nationalization of resources; protection of rights, Canadian consumer
	6688-89			J. Marshall	Citizen	Feeling of alienation from elected representatives
C-62	6886	May 31	MTL	Poirier	Citizen	A referendum should be held in NWT to ask northerners whether they would like a pipeline or not
C-64	7283	June 3	OTT	Brabozon	Citizen	Need for more public control over energy sector of the economy - Public Board of Inquiry
C-65	7578	June 4		J. Shearer	Citizen	Differences in decision making between industrial and non-industrial societies
C-66	7615-18	June 7	CH	A. MacDonald	Citizen	Rural Development Council, PEI, citizen participation in planning
C-67	7797	June 8	HAL	S. Mayo	Citizen	Participation in Canada's energy policy
	7804			E. Beale	Citizen	Proposals for hydroelectric power have gone ahead despite public objection
157	24020-27	July 5	YK	Thompson	NWT IB/MA	Rights of people to own resource, key to financial independence
	24045-48			Bayly Thompson Berger	COPE/ITC	Participation in ownership, management, revenue from oil and gas development
	24049-53			Scott Thompson	MVPI	Land owner's right to decide how the land will be used
158	24296	July 6		Trusty	CAGPL	CAGPL consultation with communities
C-70	7957	Aug. 9	RE	Chief Charlo	Citizen	Decision must be made by people of Canada

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171	26582-86	Aug 17	YK	Dixon	MVPI	Alaska, involvement in Impact Information Centre and Advisory Committee
	26628-29			Dixon		Fairbanks, local community funding Impact Information Center, more involved
	26634-36			Dixon		Alaska, hire policies, when public given information, participate at higher level
176	27441-46	Aug 24		Robinson	COPE/ITC	Voice in design of schools and curriculum
	27451-60			Robinson		Education, curriculum planning; problem of majority tyranny or system divided on racial lines
	27475-80			Robinson		Education, fear of inconsistent standards, question of equal access if no state intervention
177	27488-92	Aug 25		Wood	NWT/AM	Development along characteristics of community, control over environment
	27534			Purdy	NWT/AM	Desire voice in agreements between Commissioners of NWT and RCMP, desire broader definition of functions of RCMP
	27568-69			Purdy		Attempt to establish a Citizens' Municipal Police Board
181	28171	Sept. 8		Nousianen	MVPI	Germany, Sweden, workers directly involved with company
	28223-24			McRae	MVPI	Communities should have greater control; benefits to be exploited from better transportation routes
182	28264-68	Sept. 9		Clayton	MHA/NWT	Mustard Report, health care plan to ensure local decision making; need for consumer participation in delivery of health services; preventative programs, volunteer work
	28290			McCombs	MHA/NWT	Recommended that communities decide about health and social programs
	28303-04			McCombs		Involvement of local communities in health care facility decisions and planning
	28310			Forth	MHA/NWT	Positive effects of pipeline allow individual choice in decision making process
	28336-43			Clayton	MHA/NWT	Control of education, corrections and health delivery systems in communities; examples of local health and education control in southern Canada; problems of agreement within multi-interest communities
184	28512-14	Sept. 14		Kehoe	COPE/ITC	More control, encourage marginals to take part in community
188	29121-22	Sept. 21		Searle	MVPI	Must be involved in decision to proceed or not; terms and conditions; representation on administrative authority
189	29314-16	Sept. 22		Hill	MWT/AM	Control over community facilities e.g. Sachs Harbour control over school
	29446			Harris	NWT/AM	More people in Fort Simpson needed to take active part in leisure time activities
192	29904-06	Oct. 4		Baring-Gould	MVPI	Result of Alyeska pipeline: lower level of public participation in Valdez, political and social organizations
	29932-34			Baring-Gould		Community control over resources needed, including land; impact assessments with maximum local participation
193	30209-16	Oct. 5		Templeton	EPB	Involvement in regional land use planning
197	31084-100	Oct. 13	YK	Rogol	MVPI	Benefits of public participation in regulatory and court proceedings; establishment of Agency for Consumer Advocacy in US; rights of citizens to challenge constitutionality of legislation; impact of citizen intervention on courts and administrative bodies
	31101-08			Rogol		Public participation in American agency hearings; public interest corporations
198	31172	Oct. 14		Gates	MVPI	Community based employment and training work groups in Tuktoyaktuk, Cape Dorset, Arctic Bay, Pond Inlet
	31335-36			Gates		Community employment strategy at discussion level

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199	31577-80	Oct.15	YK	Zemansky	COPE	Formation of Arctic Environmental Council, citizens surveillance team to investigate Alyeska; other local group proposed by Alaska Center for the environment and Fairbanks Environmental Center; Alyeska's lack of co-operation; public interest not protected
202	32035-38	Nov.17		Thompson	CARC	Natural resource developments in the North
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53	7247-58	Aug.13	WH	Wah-Shee	NWT IB/MA	Position re routing alternatives
55	7658	Aug.15		Banfield	CAGPL	Statements made; political nature of the statements
C-20	1942-48 2023-25 2052-53 2067-69	Aug. 9	FGH	M.R. Drybone F. Kelly T. Kakfwi F. Rabisca	Citizen Citizen Citizen Citizen	Desire to preserve Dene land and nation Contrast with other countries Way of life; history Respect for land & people
C-21	2149 2170-77 2203-15		NW	R. Laycock R. Yakeleya W. Fraser	Citizen Citizen Citizen	Canadian nation a unity Need to control its own future Support of Dene Nation
C-24	2429-34 2456-57	Aug. 3	TL NB	Hushion Rowe J. Antoine	Foothills CAGPL Citizen	Settlement of native land claims; position of Dene people with respect to pipeline construction and land claims Land rights of the Dene people; situation has to change
C-25	2503-09 2551-56 2581-83	Sept.8	FS	Black Posset Dean	Citizen Citizen Citizen	Cultural identity, land claims; local government - need to reflect bicultural community; need for education, training programs Pipeline impact on Dene people, land claims issue Land claims - cultural price
C-26	2614-15 2619-29 2648-54 2659-60 2664-69 2670-71 2708-11	Sept.9		Antoine Antoine Paullette Nahanni Menicoche G. Antoine Lamothe	Citizen Citizen Citizen Citizen Citizen Citizen	Pipeline re feelings, other related problems History of Fort Simpson re quality of life traditionally, Treaty 11, effects of white people, problems of development and progress; effects of pipeline re land claims, social environmental destruction, noise pollution, hunting Fort Smith re turnover and recession; traditional way of life, trapping, fishing, hunting, influence of white man, conflict; land settlement re economic base, control of land Reaction to development and progress; destruction of people; failure of education, technology, economics, cultural survival unrealistic; land settlement Dene nation concept; social and economic problems re changes from traditional to economic base of life; breakdown re adjustment to housing, education, government systems; family breakdown re alcohol abuse, juvenile delinquency, social and moral degradation; story of family re inability to cope with stress and strain Harmony with surroundings, one another, before white arrival; impact of white man re disease, destruction Love of land; plea for mutual understanding
C-27	2732-33	Sept.10		Lafferty	Citizen	Disagreements in native communities; lack of true Metis people, voice
C-28	2800 2805-08	Sept.10	WR	G. Hardisty W. Hardisty	Citizen Citizen	Pipeline effects on traditional way of life re land Response to Minister of Indian and Northern Affairs' statement re Dene Declaration
C-31	2980-81 3026-27	Oct.7	FR	T. Beaulieu Menez	Citizen Citizen	Protection of Dene rights vs industrial expansion White man - transient population - lack of right to decide lifestyle, development of Dene; analogy re impact of Dene takeover of southern Canada; Dene capacity to choose their own development route

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C-32	3050	Oct. 8	FR	Beaulieu	Citizen	Relationship with land
	3056-57			Turner	Citizen	Oppression of Indians by white man; relationship with land
C-33	3157-58	Oct. 9	FS	Mercredi	Citizen	Criticism of native organizations, Metis Association of the Northwest Territories, Indian Brotherhood re: racial hate among own people; Dene Declaration
	3181-84			Stevenson	Citizen	Dene Declaration, Dene Manifesto; division between organizations and natives
C-34	3359-60	Oct. 16	YK	Watson	Citizen	Living in harmony with land and nature
	3362-66			Watson		Five disasters re: cold eclipse, flood, starvation, epidemic, land destruction
C-35	3398-402	Oct. 22	LI	Wheeler	Citizen	Predicted pipeline impact on natives - social, cultural, economic considerations
143	21770-73	Apr.14	YK	Manuel	N.I.B.	Want recognition by federal government, people of Canada; support for declaration given by National Indian Brotherhood
	21781			Manuel		Declaration supported by National Indian Brotherhood
	21791-99			Cardinal	I.A.A.	Use of the word "nation"
143-A	21844-59			Russell	NWT IB/MA	Concept, use of words "nation", "nationality": discussion re potential conflict with BNA Act
	21868-73			Russell		Establishment as a political entity; possible time lapse between land claims settlement and commencement of construction
	21879			Russell		Possible recognition; position of ethnic groups who may wish same status
	21989-90			Saul	NWT IB/MA	Has coherence because of history, territory, culture
144	22008	Apr.15		Barnaby	NWT IB/MA	Land claims part of fight of Dene to survive as a nation
145	22112-13	Apr.26		Brownstone	NWT IB/MA	Demand for self-determination; support from Oxfam
147	22508	Apr.28		Nahanni	NWT IB/MA	No objection to change, but to survival of Dene nation as a distinct people
C-48	4658-65	Apr.30	FS	G. Cheezie	Citizen	Movement to Fort Smith, impact on way of life
154	23559-60	June29	YK	Puxley		Declaration, intention to decolonize
156	23919-30	July1		Gillie	NWT IB/MA	Dene to be an identifiable native culture, must make changes in education program, control of curriculum
	23945			Kakfwi	NWT IB/MA	Will to collectively control own future
C-52	5277-82	May 13	CAL	Chief Snow	Citizen	Statement of Minister of DIAND on Dene Declaration
	5361			J. Binnema	Citizen	N.W.T. Territorial Council, DIAND should relinquish control
	5403			J. Ryan	Citizen	Statement by J. Buchanan on Dene Declaration
C-54	5647	May 17	EDM	Kuhn	Citizen	Principles of Dene Declaration, self-determination, political security, economic independence, cultural survival
C-55	5873-74	May 18		L. Mulhall	Citizen	Rejection by Buchanan, Minister of DIAND
C-56	6088-89	May 19	REG	C. Stewart	Citizen	Support for Dene Declaration
C-62	6917	May 31	MTL	Delisle	Citizen	Declaration based on Aboriginal rights, Dene intend to preserve and protect their land
C-63	7098-103	June 1		Boudrias	Citizen	Dene Declaration is not separatist, should be well understood and respected by government
C-64	7295	June 3	OTT	Roman	Citizen	CASNP supporting Dene Declaration
C-65	7424-29	June 4	RF	T. Hills	Citizen	Dene to control own lives, self-determination
C-71	8037	Aug. 10		M.J. Goulet	Citizen	Movement to maintain history, culture, language, striving for non exploitive society
C-72	8061-69	Aug. 11		G. Erasmus	Citizen	Dene history, as it relates to past, present and future ; role of Inquiry in Dene history; struggle for self-determination; Dene Declaration

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C-76	8376-79	Aug. 25	DET	P. Liske	Citizen	Express views, no development before settlement
C-77	8390-92	Aug. 26		J. Tobie	Citizen	Government should consult them, life before white arrival
172	26765	Aug 18	YK	McDiarmid	Citizen (COPE/ITC)	Territorial Council, Dene withdrawing their support.
188	29127-29-A	Sept.21		Steeves Searle	CAGPL MVPI	Council's position on Dene land claim
203	32209-20	Nov.18		Bell	NWT IB/MA	Review of Dene history
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146	22233-55	Apr.27	YK	McCullum	NWT IB/MA	Development of hydro-electric projects in Quebec, Manitoba and British Columbia; problems, conflicts with Indian land treaties and claims
	22270-78			Jones	NWT IB/MA	Projects affecting Git-shan people of Upper Skeena River Valley
	22300-10			Richardson	NWT IB/MA	Land categories of James Bay land agreement; portions left open for expropriation by the Quebec government
	22311-18			Young	NWT IB/MA	Hydro development, northern Manitoba, effects on native people
147	22364	Apr.28		McCullum		Pattern of northern development
	22373-75			McCullum		Effects of industrial development in north-western B.C.
	22453-62			Richardson		Development of energy resources conflicting with social demands, public interest vs. large corporations, conservation of energy
	22505-08			Nahanni	NWT IB/MA	Native grievance over term "economic development" used without reference to traditional activities
148	22655-60	Apr.29		Rushforth	NWT IB/MA	Industrial development in the north, changed traditional way of life, Dene settled at Fort Franklin which restricted their socio-economic system
149	22811-A-19	May 3		Simpson	NWT IB/MA	Problems with underdeveloped nations; changing measur goals of development in the Third World
	22839-51			Simpson		Discussion of new attitudes, priorities; Swedish article, "What Now?" about new approaches
150	23018	May 4		Bean Steeves	NWT IB/MA CAGPL	Cardinal, partnership between natives, non-natives in development decisions
C-44	4196-98	Mar.8	TUK	Freeman	Citizen	Tuk people favour controlled development
C-45	4410-13	Mar.10		Freeman		Benefits of development in Tuk, controlled development, give-and-take aspect of development
C-47	4539-41	Mar.13	ARR	R. Andre	Citizen	Royalties from cash development to fund local economic development; no major development (pipeline) until land settlement
C-48	4658-65	Apr.30	FS	G. Cheezie	Citizen	The Dene and development, impact on way of life
	4668-70			W. Applewhite	Citizen	Fort Smith's potential contribution to pipeline development
	4673-85			G. Kurszewski	Citizen	Must be in northern peoples' interest, impact on Fort Smith
154	23531-55	June29	YK	Puxley	NWT IB/MA	Relationship with under-development; colonial status of institutions, government; human development
	23564-72			Puxley		Participation; colonial relationship
	23577			Watkins	NWT IB/MA	Innis' staples theory of Canadian historical development
	23592			Watkins		Definition of under-development
155	23699-11	June30		Watkins		Need for regional proposals; inter-regional economic relations
155-A	23846-47			Jelliss	NWT IB/MA	Development problems of the native people, need impetus from natural resources sector
	23853-58			Jelliss		No mechanism for native people to obtain fiscal benefits after commencement of production

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156	23910	July 1	YK	Gillie	NWT IB/MA	Native people not prepared for the "new order" due to economic expansion after World War II
	23978			Gillie		Need to expand education if development comes to the north
C-49	4773-75	May 10	VAN	Maultsaid	Citizen	Patterns of northern development
	4822-24			Guy	Citizen	Development phases in Canadian history, hardships to natives, ignoring environmental damage
C-50	4881-82	May 11		Shaver	Citizen	Impact of development must be taken seriously, should be seen as impact to whole of Canada, not just north
	4954-59			Obedkoff	Citizen	Parallels between development in Downtown Eastside, Vancouver, and Mackenzie Valley, deterioration of lifestyles
	5025-26			McDougall	Citizen	Not all Canadians believe development should mean exploration of resources; development - not just economic
	5037-38			Storm	Citizen	Development philosophy; prediction of oil and gas reserves
C-51	5109-16	May 12		T. Pearse	Citizen	Land claims, ownership should be settled before any projects begin; impact of large projects, northwestern B.C.
C-52	5239	May 13	CAL	J. Poyen	Citizen	Pipeline, opening of the north
	5385-90			M. Serediak	Citizen	Industrialization, urbanization
	5401-02			J. Ryan	Citizen	Pressure on Canada from multinational corporations
C-53	5422-23	May 14	CAL	Getty	Citizen	Economic and social development should be closely connected, though economic development given priority
	5489-91			Lusty	Citizen	Development is favorable but must be done with care, must not destroy established norm
	5507-08			Greyeyes	Citizen	Similar problems created by development, north and south
	5544			Crouteau	Citizen	Struggle of Third World people similar to that of natives of Canada, for equitable development
C-54	5736-38	May 17	EDM	Stewart	Citizen	Development decisions, in the hands of native people
C-55	5765-66	May 18		K. Charest	Citizen	Native people would like control
	5799-01			R. Dion	Citizen	In the north, false raising of expectations
	6110-16			C. Alexander	Citizen	Natural resources, northern Canada
C-57	6304-06	May 20	WIN	W. Close	Citizen	North developed in interests of south; "myth-laden" character
C-58	6373-75	May 25	TOR	H. Laforme	Citizen	Natives must take part
C-62	6883-87	May 31	MTL	Poirier	Citizen	Should not be at the expense of the native northerners
	6892-901			Ciacchia	Citizen	James Bay Agreement, development whilst protecting native needs
	6924-25			Perras	Citizen	Future development in Quebec Province dependant on gas supplies
	6942-46			Ponting	Citizen	Having to make a choice between environmental protection and economic growth, majority in favor of environment
	6956-57			Genest	CAGPL	Development not seen as confrontation between natives and southerners, should be no winners or losers, but all winners
C-63	6972-80	June 1		Morrisette	Citizen	Negative aspects of development in north re education, cultural breakdown
	6982-84			Schiblie	Citizen	Colonial patterns of development, third World
	7045-47			Gourdeau	Citizen	Negative impact if land claims not settled before development begins
	7149-50			Scyner	Citizen	Northern residents to be consulted before development projects, regional development

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C-64	7237-40	June 3	OTT	Proulx	Citizen	Questions as to whom should decide on future energy needs, who will benefit from rapid development, who will pay
	7338-39			Van den Heuvel	Citizen	People affected by development should have their say
C-65	7485-86	June 4	OTT	S. Leggatt	Citizen	Environmental, social impact of development
	7510			A. Studd	Citizen	Opportunities should be made for full native participation in development
	7529-31			H.T. Schwarz	Citizen	The negative social impacts of development in Inuvik
	7543-44			S. Loewan	Citizen	Development should not be rushed
C-66	7599-601	June 7	CH	D. Coffin	Citizen	Federal government definition, conflict with what PEI residents would like to see
	7614			A. MacDonald	Citizen	Need for public policy, set of guidelines, goals
	7627			Sister M. Burge	Citizen	Qualities of indiscriminate development; views of Latin Americans
	7633-34			A. Campbell	Citizen	Danger of devastating effects on native people
	7636			J. Butler	Citizen	Federal, provincial plan, intended to aid economy, actual effects
166	25780-99	July 20	YK	Brody	COPE/ITC	Impact, interaction between industrial development and small isolated communities; total income can increase while number of poor people does as well
167	25879-83	July 21		Brody		Factors necessary to prevent severe impact; three possible future courses
	25920-26			Usher	COPE/ITC	Consequences if proceeds unabated; requirements for moderation
	25966-67			Brody		Common features, kinds of development in the western world; impact of native people
169	26212-14	July 23		Stanley	NWT IB/MA	Study of economic development, seven American Indian tribes; native suspicion of programs that ignore native society, ideas
	26219-20			Stanley		Need for programs that uplift standard of living for whole tribe, not just individuals
	26231			Stanley		Pine Ridge Reservation, United States, attempts at planned economic development, little success; need for each community to develop along own lines
168	26244-61	July 23		Stanley		Failure of projects on Papago Reserve, United States; Navajo at Shonto, need for expansion of traditional economic activities; Morongo Band, need for all development decisions to be voted upon by tribal members; need for appreciation of the quality of land natives retain
	26269-82			Stanley	NWT IB/MA	Successful case of economic development amongst Papago people, other not so successful cases amongst Kisto, Navayo
	26347-53			Ruttan	NWT IB/MA	Pipeline construction incurring other development
C-72	8104-06	Aug. 11	RF	R. Whitford	Citizen	Economic development in community of Rae/Edzo
C-74	8310-02	Aug. 13	RT	Father Amourous	Citizen	Stop continuation of traditional ways; mining
C-75	8322-23	Aug. 21	CL	D. Tobac	Citizen	Does not want it, do it in southern areas, southerners greedy
C-76	8377-79	Aug. 25	DFT	P. Liske	Citizen	Natives not receiving benefits, changed lifestyles; settlement of claims first
C-77	8422-23	Aug. 26		A. Potfighter	Citizen	Adverse effect on native lifestyles
	8427			A. Potfighter		Has taken away native way of life
170	26404-06	Aug 16	YK	MacLeod	Foothills	Employment in hydrocarbon field; job creation; population projections
171	26555-56	Aug 17		Burrell	Foothills	Secondary growth problem if companies not included in Manpower Delivery System
173	26905-07	Aug 19		Kyllo	COPE/ITC	Must consider development in total, social impact.

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174	27089-92	Aug 20	YK	Bayly Lainsbury	COPE/ITC NWT/AM	How communities will cope with pipeline development depends on experiences of past development; Dixon's evidence on Anchorage, Fairbanks; ability of Mackenzie Valley communities to deal with development
176	27428-29	Aug 24		Sigler Button	NWT/AM COPE/ITC	Costs; prior settling of land claims
177	27487-89	Aug 25		Wood	NWT/AM	Secondary industry, employment opportunities, community choice for change
179	27762-65	Aug. 27		Runge	MVPI	Planning authority needed for housing and dealing with pipeline impact
181	28052-55	Sept. 8		McCambly	MVPI	Favouring CAGPL proposal; seen as essential
	28120-23			Reimer	MVPI	Proposed community model, ownership and control by natives, against conventional industry philosophy of progress
	28130-31			Reimer		Need longer term strategy, must change philosophy, include natives in planning
	28134-35			Reimer		Must include native and national interests in planning; labour codes
182	28374-75	Sept. 9		Clarke	COPE/ITC	CAGPL's position that entrepreneurial development will be beneficial
184	28424-32	Sept. 14		Atcheson	COPE/ITC	Destroying native lifestyle, natives have not benefited, low standard of living, lack of control
	28438-41			Atcheson		Must be planned, natives must be trained to assume control, should look at industry based on non-depleting resources, cut down on government bureaucracy
	28460-67			Kehoe	COPE/ITC	Creates disparity, culturally disruptive influence, increase in mental illness, should safeguard culture through careful planning, should benefit natives
	28493-95			Atcheson		Need to examine new systems, desire for new society
	28512-15			Kehoe Atcheson		Inability of established white northerners to adapt as well as natives
	28518-21			Atcheson	COPE/ITC	Planned, to be integrated with life-styles, needs to be down simultaneously with land claims
	28532-33			Kehoe	COPE/ITC	Potential problem, intensive planning necessary, 5 to 10 years needed
185	28619-24	Sept. 15		Mayhall	COPE	Packaged processed foods' impact on native dental health; lifestyles will be changed; influx of development personnel will not attract more dental personnel; natives must be involved in planning of dental health; establishment of trust fund from royalties
186	28898	Sept. 16		Snowden	COPE/ITC	Developmental characteristics applicable to the third world; formation of a development corporation to define resource and market, studies, regional skills, direct project development
188	29120	Sept. 21		Searle	MVPI	Consequences of a pipeline, effect on economy
189	29306-08	Sept. 22		Hill	NWT/AM	Productive renewable resources; mining and petroleum production
190	29579-83	Sept. 23		Ganske	NWT/AM	Plans for community development, special funding; existence of development plans in Tuktoyaktuk, Inuvik, Aklavik, Fort McPherson, Arctic Red River, Norman Wells, Fort Norman, Fort Simpson, Hay River
	29585-88			Scott Ganske	MVPI	Facilities in communities to minimize impact of development, request for list of facilities, cost estimate, time needed to make them operative
	29679-82			Fogg	NWT/AM	Hay River agrees with controlled pipeline developments
	29700-01			Henne	NWT/AM	Yellowknife supports development; disadvantages of postponement
192	29933	Oct. 4		Baring-Gould	MVPI	Preliminary and alternate proposals to local government needed in communities
	30009			Ritter	MVPI	Will result in fatal weakening of native languages

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197	31008-09	Oct.13	YK	Bergasse	MVPI	His definition of "northern development"
198	31231-32	Oct.14		Witty	MVPI	Impact of "no development" approach
	31251-57			Berger Witty		Failure of Pointed Mountain project and Pine Point to employ significant number of native people; frustration of being educated to partake but denied opportunity
	31365-66			Witty		Employment in interim if moratorium on development
203	32141-48	Nov.18		Veale	CYI	Native people will benefit marginally in short-term wage employment; negative impacts outweigh marginal benefits; overwhelming scale of development; costly social and cultural effects on native people; in-migration of outsiders; decrease in political and economic power of residents; ten year residency rule recommended
	32153-58			Veale		Social and cultural problems facing Old Crow if development; fear of violent reaction to pipeline
204	32295-97	Nov.19		Erion	NWT/CC	Determining middle course between unrestrained development and no development; no alternatives to non-renewable resource development, supports development
--	32347-48			Parker	NWT Govt	Implication of ten-year moratorium

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C-36	3495-96	Jan. 28	IN	Adam	Citizen	Raising of reindeer herd, construction of slaughterhouse, fur factory, muskrat farming
113	17210	Jan.21	IN	Hobart	GPC-D	Alternatives to development directions imported from south
117	17856	Jan. 26		Bell Sider	NWT IB/MA GPC-D-G	Alternative to hydrocarbon industry suggested by Nerysoo
123	18836-41	Feb. 12		Yates	MVPI	Water resource development, Federal Government northern development policy
143	21741-45	Apr.14	YK	Bell		Evidence to be presented in Phase 4
144	22065-66	Apr.15		Bean	NWT IB/MA	Possibilities for Dene to develop their own economy
145	22093-113	Apr.26		Brownstone	OXFAM	Analog situation of Third World countries; Oxfam-supported workshops for development of concepts of community-based development
	22209-20			Menez Rolfe	NWT IB/MA NWT IB/MA	Southern opinion on development of the north; options open to Canadians
146	22261-62	Apr.27		McCullum	NWT IB/MA	Native people must take care of themselves where development taking place
	22306-07			Richardson	NWT IB/MA	Under James Bay agreement, review of project proposals
149	22823-24	May 3		Simpson	NWT IB/MA	Need for consideration of alternative forms
150	23001-03	May 4		Bean		Need for alternatives for natives not interested in living off the land or in working in the petroleum industry
154	23615-22	June29		Watkins	NWT IB/MA	Need for opportunities, other areas besides non-renewable resource sector
C-55	5936-41	May 18	EDM	B. Farrell	Citizen	Need for study, further development possibilities
C-63	7097	June 1	MTL	Boudrias	Citizen	Native people wanting the promotion of the concept of community development
169	26212-82	July 23	YK	Stanley	NWT IB/MA	Seven studies of American Indians' concept of economic development
	26315-22			Ruttan	NWT IB/MA	Development of renewable resource based economy
181	28118	Sept.8		Reimer	MVPI	Economic benefits could be derived from other activities
186	28900-03	Sept.16		Snowden	COPE/ITC	Change mode of government control; Alaskan proposal- rental of civil services to rural boroughs; extension of Western Northlands program
	28948-51			Snowden		Western Northlands' program of DREE
202	31916-19	Nov.17		Bayly	COPE/ITC	Native resource management, research programs
	32017-21			Thompson	CARC	Expiry of gas exports

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C-37	3570	Feb.10	IN	Workman	CAGPL	Standard of living, Canada's balance of payments, oil imports
	3578-83			Berger Burrell Workman Hovi	Foothills Citizen	Community fuel supply, Canada's balance of payments, northern business opportunities, royalties, service industries, employment
	3608-09			Cardinal	Citizen	Standard of living, income, opportunities
	3621-22	Feb.12		Lang	Citizen	Employment, fuel cost, standard of living
	3637-38			Pluim	Citizen	Social benefits in Alberta from oil, gas development
C-38	3643-51	Feb.12		Alonik Berger Rowe Burrell	Citizen CAGPL	Distribution of gas revenue received from United States; applicant payment of community taxes; resource royalties
	3665	Feb.15		Scribner	Citizen	Employment, standard of living, improved roads, facilities
C-39	3703-14	Feb.18		Robertson	Citizen	Support for controlled development; conditions for development, employment of northern workers, supplies bought in Inuvik; airstrip expansion; impact of Dempster Highway; population increase; government co-ordination; funds to up-grade property, recreation facilities; distribution of gas
	3716			Hill	Citizen	Balanced development, residential benefit
	3719-20			Hill		Optimum benefits provided by development, self-sufficiency of north, quality of life improved
	3725			Hill	Citizen	Arrangements for gas delivery to communities
	3754			S. Allen	Citizen	Standard of living raised through jobs on pipeline
	3802			Thrasher Alonik L. Pederson	Citizen Citizen Citizen	Development to support native people
116	17689-92	Jan.24				Native participation in development, employment
117	17823-30	Jan. 26		Sider	GPC-D-G	Employment for northerners
142	21557	Apr.13	YK	Giroux	NORTRAN	Meaningful jobs and training with the Nortran Program
146	22316-18	Apr.27		Young	NWT IB/MA	Proposed "benefits" from Manitoba Hydro Project
151	23197-98	May 5		Smith	CYI	Yukon natives, benefits from pipeline
C-40	3812	Feb.23	AK	Sittichinli	Citizen	Percentage of oil taken from native land
154	23600	June29	YK	Watkins	NWT IB/MA	Economic rents, industry in the north
155	23692-96			Watkins		Possible native participation, sharing of equity, ownership of Foothills' project
155-S	23834-45	June30		Jelliss	NWT IB/MA	Revenues accruing from projects after deduction of production costs, distribution; Pointed Mountain gas; Norman Wells; little revenue to native people
C-50	4862-64	May 11	VAN	Holmes	Citizen	Benefits from road access Mackenzie Delta; transportation in Yukon; year round jobs, maintenance of supply and service industry
C-54	5685	May 17	EDM	Somerville	Citizen	Positive effects of northern resource development, stimulating communities and communications
C-55	5857-64	May 18		J. McDougall	Citizen	Balance of payments; employment opportunities; tax revenues; supply of new energy services; supply reliability; expanded economy
	5950-51			A. Meyer	Citizen	Creation, infrastructure to support modern business; improvement of standard of living
C-58	6376-77	May 25	TOR	G. Beakhurst	Citizen	Defining benefits, costs
C-60	6636-37	May 27		R. Snyder	Citizen	Employment; new business opportunities; opportunities for training, education; additional services

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C-63	6985-86	June 1	MTL	Schiblie	Citizen	Question as to whom will benefit from the pipeline
	7033			Ford	Citizen	Government benefits from taxation
	7092			Hughes	Citizen	Federal government has promised share of benefits to native people
155-A	23863-78	June 30	YK	Jelliss	NWT IB/MA	Methodology for estimating rents, cash flow of Amoco re: Pointed Mountain gas
	23882-88			Jelliss		Nation as a whole receiving benefits
	23892-98			Jelliss		People of BC same as those of NWT, not receiving direct benefits, unlike American consumers
157	23998-99	July 5		Thompson	NWT IB/MA	Financial returns from oil and gas, funding for social and cultural programs; voice in decision making process, training opportunities
159	24473-76	July 7		J. Weinstein	CAGPL	Alaska government in favour of Alyeska, hoped for jobs, expanding economy
161	25064-65	July 13		Trusty	CAGPL	Location of staging facilities at Hay River, Fort Simpson, effects on local business
	25074-78			Trusty		Additional facilities, improvement of northern transportation systems
163	25119	July 14		Hobart	CAGPL	Potential for reducing racial tension, number of professional caretakers
	25146-50			Hobart		Opportunities for native people to become self-sufficient
	25165			Hobart		Long range employment
	25171-74			Trusty	CAGPL	Permanent jobs, increase in personal income
165	25565-70	July 19		MacLeod	Foothills	Higher standard of living; economic development re commercial services, recreational facilities; more wage employment opportunities
166	25716-21	July 20		Jensen	Foothills	Royalty arrangements must be dealt with in advance
169	26270	July 23		Stanley	NWT IB/MA	Little income derived from lease payments for mineral extractions, Navajo reservation
	26286			Ruttan	NWT IB/MA	Dene claim economic benefits from non-renewable resources as transitory
	26357-58			Stanley		Navajo Indians, lease payments on oil and gas extraction, minimal native involvement
C-68	7872-85	July 16	FP	T. Malewski	Citizen	Proximity of Axe Point staging area to Fort Providence, possible jobs, opportunities for residents; pipeline to be brought to towngate
	7886			B. Myron	Citizen	Only benefit to older people if laterals built to communities
C-71	8051	Aug. 10	RF	S. Douglas	Citizen	The South will benefit from pipeline, not the north
171	26643-46	Aug. 17	YK	Dixon	MVPI	Alaska, increase jobs; increase incomes; lifestyles, rapid job advancement
173	26908-12	Aug. 19		Kyllo	COPE/ITC	Wage economy not considered as a complete benefit, some drawbacks
175	27224-25	Aug. 23		MacLeod	NWT/CC	Limited scale of smaller business prevents significant development benefits; factors which might limit level of opportunity and development benefits
179	27823-25	Aug. 27		Scott Runge	MVPI MVPI	Housing, local constructions pumps money into community, northern employment
181	28041-42	Sept. 8		McCambly	MVPI	Revenues, cover debts, assist in settling native land claims, exploration
182	28242-44	Sept. 9		Forth	MHA/NWT	Improvement of capacity for individual choice; increased career opportunities; improved community services, transportation and communication facilities; reasonable energy cost; increased economic and political control in communities
	28310-14			Forth		More people can be employed; improvement of transportation and communication; increased political and economic control

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188	29231-32	Sept. 21	YK	Neakok	COPE	Access to natural gas to heat villages in Alaska
189	29269-78	Sept. 22		Nickerson	NWT/AM	Pipeline revenue should be retained in NWT, ensuring that all people benefit; pipeline taxation, property taxation, income taxation, royalties, throughput taxation
190	29714-29	Sept. 23		Scott Henne	NWT/AM	Benefits to northern Canada; employment; gas in homes; self sufficiency; secondary industries; royalties
--				Robertson	NWT/AM	
200	31661-66A	Nov. 15		Genest	CAGPL	Job, business opportunities, property taxation, corporative income taxation, royalties
201	31817-20	Nov. 16		Gibbs	Foothills	Incidental benefits not large, jobs created, property, income taxes, royalties
	31856-57			MacQuarrie	MHA/NWT	Listing of potential social, economic, political benefits
202	31915	Nov. 17		Bayly	COPE/ITC	Will be lost to outsiders, federal government
	31988-90			Sigler	NWT/AM	Heritage Fund, municipal taxes, throughput tax on pipeline

DISCRIMINATION

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143	21722-30	Apr. 14	YK	Behn Giroux	NORTRAN NORTRAN	Nortran Program, job and racial discrimination; counselling
146	22258-59	Apr. 27		McCullum	NWT IB/MA	Racism in construction towns near large development projects
147	22444-45	Apr. 28		Richardson	NWT IB/MA	Legislation about questions of prejudice
148	22728-29	Apr. 29		Asch	NWT IB/MA	Racial tensions, Gemini North report
149	22836-38	May 3		Simpson	NWT IB/MA	Problems with prejudice
	22863	May 4		Hills	NWT IB/MA	Miscegination between Europeans, aborigines, rise of racism
153	23431-33	May 7		Sharp	CYI	Separation between Indians and Whites, formation of social categories
163	25113-34	July 14		Hobart	CAGPL	Changing ethnic composition, NWT, racial social tension; increase in prejudice; level of discrimination varies inversely with amount of inter-ethnic interaction
	25266-68			Hobart		Possible problems, disturbances, white workers in native communities
164	25449-55	July 16		Hobart Roland	MVPI	Relationship between inter-ethnic interaction and non-prejudicial attitudes, job situation
181	28059-61	Sept 8		Bayly	COPE/ITC	Natives receiving less pay for same work, lower classification
	28106-07			McCambly	MVPI	Language problem in integrated work crews, against segregation
184	28489-92	Sept. 14		Sigler Atcheson	NWT/AM COPE/ITC	Feels analysis defined on racial lines, generalizations invalid and racist; denied

DOMESTIC FISHING SITES

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93	14082-88	Dec. 1	YK	McCart	CAGPL	Protection of domestic fishing sites, fish as a resource, Fort Good Hope
95	14389	Dec. 2		Bayly	COPE/ITC	Big Eddy, important site of a local fishery
99	15122-23	Dec. 9		Hayden	Foothills	Horn, Kakisa, Hay Rivers; Kakisa, Tathlina, Buffalo Lakes
100	15201	Dec. 10		Bouckhout	Foothills	Relocation of pipeline
	15290			Hayden		Little fishing on Great Bear River
	15315			Bouckhout		Hodgson Creek, relocation due to domestic fishing site
	15328			Hayden		Holmes Creek crossing, relocation
103	15731	Dec. 15		Stein	CARC	Impact from pipeline personnel utilization
	15737			Stein		At river mouths
	15774-75			Steigenberger	CARC	Northern Yukon route - impact
	15778			Steigenberger		Gravel removal guidelines
	15809			Stein		Data scattered through reports

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104	15842	Dec. 16	YK	Stein	CARC	Identification by synoptic helicopter survey
	15909-12			Steigenberger	CARC	On north slope, extent of utilization
	15943-52			Steigenberger		In Northern Yukon re: historical exploitation
107	16333-35	Jan. 12		Wilimovsky	EPB	Data on domestic fishing is limited; construction workers use of the fish resource; management of the resource
	16372-75			Wilimovsky		Conflict between sport and recreation fishing and domestic fishing; data and study is limited; definition of domestic fisheries; use during time of construction; records - tradition, Hudson Bay Co., missionary
C-31	3023	Oct. 7	FR	Menez	Citizen	Traditional fishing practices
116	17653-	Jan. 24	IN	Rempel	GPC-D-I	Effect of development, over-exploitation in Yaya Lake
121	18436-37	Feb. 10		Stein	COPE/ITC	Importance of delta inshore zone to domestic fisheries
122	18603-04	Feb. 22		Stein		Impact of dredging at Tuktoyaktuk Harbour on domestic fishery
133	20150	Mar. 23	YK	McCart	CAGPL	Impact of cross-Delta route
135	20465-67	Mar. 25		McCart		Site near Reindeer Channel crossing at Big Eddy; site at Yaya Lake
136	20691-718	Mar. 26		Peet	MVPI	Evidence-in-chief re impact of pipeline on domestic fisheries
	20711			Peet		River crossings, wharves, work camps should not be near fishing sites
	20753-55			Peet		Conflict with wharf sites; consultation with local natives on wharf location

DRAINAGE AND EROSION

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XV	1728-29	Mar. 11	YK	Dau	CAGPL	PAAG Report, CAGPL's Responses re: erosion susceptibility
XVI	1786-91	Mar. 12		Mollard Gibbs	CAGPL Foothills	Fort Simpson route change; Ebbutt Hills
XIX	2221	Mar. 17		Clark	CAGPL	Chick Lake ground water study
XXIII	2324-27 2740	Mar. 21		Clark		Environmental impact of frost wall on ground water
XXIV	2770-74 2817	Apr. 7		Clark Cooper	CAGPL	Elevated pipe-frost heave and erosion as affects piles River bank erosion, flooding, stream analysis
XXV	3006-11 3011-13	Apr. 8		Hardy Hollingshead	CAGPL CAGPL	Environmental damage-erosion of bank, ROW Labiche River-erosion problem on slopes
XXVII	3320-35 3365-74	Apr. 10		Scott Slusarchuk	MVPI CAGPL	Slope test section, slides, erosion, climatic conditions Thaw settlement, ground water, surface soils subsidence
XXVIII	3452-55 3476-80 3494-96 3506-09 3538-39 3552	Apr. 11		Scott Clark Clark Morgenstern Morgenstern Scott	CAGPL	Unfrozen aquifer, surfacing of water, icing growth Drainage on slopes, freezing ground water, open system pingoes Natural pools, ditching Landslides, mudslides, gravity forces Slope movement Cuts on slopes
XXXII	4111	Apr. 18		Holmberg	CAGPL	Erosion caused by gas leak (turbulence)
XXXIX	5081-88 5114-55	May 15		Williams Harlan	CAGPL CAGPL	Culverts to maintain water flow for fish Construction techniques, revegetation, siltation
42	5406-07 5409-10 5472-79	May 21		Hurd Fielder Hurd	CAGPL CAGPL	Fire, erosion, repair measures Erosion, berm failure Fires, surface vegetation damage, ponds on ROW
46	6047-48 6107-18 6132-35	June 2		Templeton Adam Bliss	EPB EPB EPB	Negative effect of fire on peat mat Mechanical erosion, drainage disruption Cold pipe may impede water drainage

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DRAINAGE AND EROSION

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54	7495	Aug.14	WH	Weedon	CARC	Fort Yukon Corridor; permafrost degradation; liquefaction; thaw and collapse; frost barriers; creation of new marsh and new dry land areas; impact on water fowl
	7502-05			Weedon		Erosion of coastal areas; off-shore corridor; thermal and wave erosion; coastal retreat; retardation of thermokarst action; ice scour; permafrost degradation
	7574			Parker	CARC	Erosion, siltation; effect on fish habitat and population
55	7605-24	Aug.15		Hughes	CARC	Thermokarst ponds; placer mining, man made erosion and transportation of soils
C-23	2377-81	Aug.14		D. Taylor	Citizen	Drainage at roadsides would increase mosquito population
61-A	6720-27	Sept.15	YK	Walker	Foothills	Studies re potential for erosion; hydraulic performance; bank instability, security and stability of the pipeline crossing, Mackenzie River near Swimming Point contains a silty and sandy bottom; Fort Simpson Crossing contains cobbles and boulders; dredging and dragline operations; winter construction; repair and maintenance operations, barge anchoring
64	9285-87	Sept.18		Davison	Foothills	Studies of potential problem areas in field before final design
	9289-94			Claridge	Foothills	Contribution to slope instability; study of failed slopes;
	9294-98			Claridge		Control measures
	9393-99			Claridge		Quantities calculated of control substances; Ebbutt Hills routing
	9428-34			Spafford	Foothills	Interruption of flow in stream beds
65	9494	Sept.19		Davison	Foothills	Witness's role in Foothills' organization to assess drainage & erosion problems
69	10397-402	Sept.25		Owen	MVPI	Stream interference re: Pointed Mt. Pipeline; borrow pits; surface erosion; river channel change
70	10518-23	Sept.26		Owen		Pointed Mountain line; swampy terrain; ponding, stream channeling
	10541-53			Longlitz	MVPI	Erosion caused by snow roads, temporary access roads
	10556			Longlitz		Lowering of river banks; impact of spring break-up and floods, increased erosion and siltation
	10561			Longlitz		In wet areas there are problems of rutting and ponding, impact of all-terrain vehicles
	10572			Lewis	MVPI	Slow present day degradation; coast retreat re: Yukon North Slope rivers
	10581-87			Lewis		Storm floods; spring floods; siltation; bed load; sediment movement; ice scour; bank erosion
72	10731	Oct.15		Longlitz		Rutting and erosion re: spring use of snow roads
	10774-76			Lewis		Ice scour, bank erosion re: spring floods; Yukon North Slope rivers; Alaska rivers;
	10778-812			Adam	EPB	Pipeline chilling, river crossing; thaw settlement and localized erosion; Willowlake River; discontinuous permafrost; ground ice; frost bulbs
75	11083-89	Oct.20		Weedon Parker	CARC CARC	Reports; natural revegetation on Brook Range slope; impact of track vehicles; planting of exotic species to initiate erosion control; Inuvik test plot; thermal erosion along Arctic coast; reduction in surface layer
76	11291	Oct.21		Parker		Alaskan experience; corridor concept, use of same right-of-way for many facilities; potential problem at river crossings
	11310-34			Hughes	CARC	Movement of water through the soil layers; ice lens incidence and intensity of slopes
77	11349-442	Oct.22		Rutter	CARC	Mackenzie Valley area; reports and studies; topography; permafrost degradation; organic materials; river characteristics; soils; Ebbutt Hills, good engineering practices required to control damage; ice rich soils

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77	11452-88	Oct. 22	YK	Roed	CARC	Edge of the shield route; terrain advantages; river crossings
78	11557-68	Oct. 23		Roed		East of the Franklins, soil drainage, terrain conditions; permafrost areas; low relief; saddle of the Colville Hills; Horn Plateau-sand deposits; from Horn Plateau to Mackenzie River area of poorly drained soils; terrain sensitivity
	11613-74			Minning	CAGPL	Reading of phase 2 evidence; CAGPL'S evidence outline re: drainage and erosion control measures; revegetation programs; disruption of subsurface drainage due to chilled and buried pipeline; permafrost degradation, frost heave
79	11714-17	Nov. 3		Dabbs	CAGPL	Erodibility rating of soil
	11725			Dabbs		If pads too well drained, poor revegetation
	11747-52			Dabbs		Technique of sod replacement for use in medium and low erodibility zones
80	11808-47	Nov. 4		Clark	CAGPL	Water in active layer during summer; impeded drainage by backfill; spacing of mound breaks; test hole drilling; slope stabilization; frost heave
	11843-47			Clark		Use of insulated drains, slope stability problems, erodibility ratings, drainage through mound breaks
	11896-98			McCart	CAGPL	Use of berms to prevent seepage at borrow sites - water through berms before entering streams
	11910-17			McCart		Drainage and erosion controls at borrow sites; use of berms; revegetation; reopening of pits
	11934-38			Williams Hemstock	CAGPL CAGPL	Runoff and rate of thaw of snow roads - Inuvik test site
	11946			Hemstock		Prevention of erosion the objective of the revegetation program
81	11959-60	Nov. 5		Dabbs		Clarification of earlier evidence re: seeding of high, medium and low erosion areas
	12061-77			Clark Williams		Snow and Ice in granular material placed on berm
82	12200-01	Nov. 6		Harlan	CAGPL	Runoff volumes along interior and coastal route
	12291-92			Harlan		Diversion of moisture, erosion problems due to thaw liquefaction, low-effective stress
83	12500-02	Nov. 7		Scott Harlan	MVPI CAGPL	Permafrost degradation, borrow pit near North Slope river; river bank erosion
85	12660-75	Nov. 12		Bayly McCart Williams Harlan	COPE/ITC CAGPL CAGPL	Erosion, borrow operations, North Slope river
	12726-29			Scott McCart Harlan		Impact assessment standard, crossings of rivers of certain drainage area
86	12826-48	Nov. 13		Davison Claridge	Foothills Foothills	Studies, prevention of erosion, terrain sensitivity
87	12124-50	Nov. 14		Vaartnou	Foothills	Revegetation as erosion control
88	13325-38	Nov. 17		Vaartnon		Revegetation as erosion control
88-A	13387-90	Nov. 17		McCart		Interruption of sub-surface drainage, borrow sites erosion
90	13594-603	Nov. 19		Jakimchuk Banfield Gunn Dabbs	CAGPL CAGPL CAGPL CAGPL	Damage to revegetated areas by caribou, birds causing erosion.
	13616-20			Dabbs		Erosion due to toxic fluid spills, revegetated areas
	13622-24			Dabbs		Helicopter seeding, areas of high erosion potential
	13671-722			Dabbs		As a result of unsuccessful revegetation
	13698-715			Dabbs		Ponding in settled areas of right-of-way over pipe
91	13812-30	Nov. 20		McCart		Monitoring river crossings after construction, siltation, site specific recommendations
98	14893-96	Dec. 8		Gunn	CAGPL	North Slope ponds, lakes, siltation, erosion after fire, seismic lines, gravel mining
100	15223-24	Dec. 10		Kondla	Foothills	Future studies, drainage disruption
	15309-10			Hayden	Foothills	Testing siltation and erosion control devices
	15351-52			Whitney	Foothills	Possible drainage pattern changes, Yellowknife/Pine Point lateral

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101	15450-57	Dec. 11	YK	Zoltai	CARC	Surface, sub-surface drainage around pipe, various terrain; ponding, fens
	15464-72			Zoltai		Potentially hazardous erosion areas on route; effects of wide ROW; Ebbutt Hills; effects of fire; revegetation as erosion control; further research required
	15474-505			Zoltai		Artificial insulation to prevent erosion; runoff melting icings around pipe; interruption of drainage, fenlands
	15519-31			Zoltai		Revegetation will only prevent short term water erosion not thermal; effects of fire, resulting subsidence; CNT line
101	15539-40	Dec. 11		Zoltai	CARC	Possible water runoff interference, west flanks, Ebbutt Hills
102	15545	Dec. 12		Lutes Zoltai	Foothills	Erosion of abandoned CNT line
	15580-81			Zoltai		Interception of drainage by chilled pipe, effects on vegetation; channelling of water by berm breaks
103	15789	Dec. 15		Millen	CARC	Comment - CAGPL efforts to preserve environment
104	15877-78	Dec. 16		Millen		Recommendations to the Inquiry re: erosion control techniques at stream crossing approaches
105	16009-13	Dec. 17		Millen Stein	CARC CARC	Protection of slopes re: erosion, control; highway erosion re: Mackenzie; monitoring of erosion control measures
	16068-69			Marshall Millen	CAGPL	Re: ice roads compared to all weather roads
106	16163-65	Dec. 17		Lent	CARC	Alyeska, lack of erosion control to minimize extent and duration of erosion
107	16312	Jan. 12		Templeton	EPB	Ebbutt Hills area
	16348-50			Adam	EPB	Pipeline chilling; surface and subsurface drainage, culverts, elevation of the pipe; frost bulb, heave and icings
108	16500-06	Jan. 13		Templeton Adam		Thaw settlement, depression; snow roads, seismic lines, aesthetics
	16538-39			Templeton		Drainage disruption; scheduling of pipeline looping; wetlands area of the Ramparts River area
109	16633-41	Jan. 14		Bliss Adam McT-Cowan Wilimovsky	EPB EPB EPB	Environmental effects on waterbodies, terrain; impact on wildlife habitats; aesthetics; siltation; removal of gravel from river beds; vegetation
114	17291-92	Jan.22	IN	Mainland	GPC-D-I	Taglu gas field facilities drainage through pads by culverts; roads planned to avoid Delta drainage pattern
	17330			Mainland		Taglu gas field, drainage patterns still being studied
	17372			Mainland		Taglu gas field, bank erosion Mackenzie channels, precautions
	17389-95			Mainland	GPC-D-I	Taglu gas field, erosion of pads by floods; bank erosion on Delta channels
116	17649	Jan.24		Rempel	GPC-D-I	Drainage and flood patterns altered by road construction; culverts minimize effect
125	19036-53	Feb. 14		Lewis Shearer	COPE/ITC COPE/ITC	Ice scour, scour holes in Shallow Bay
132	20047-55	Mar.18	YK	Hollingshead	CAGPL	Erosion of west bank, Shallow Bay, prevention measures
	20094-98			Hollingshead		Erosion at Delta channel crossings, prevention measures; permafrost slowing bank erosion
133	20129	Mar.23		Rowe	CAGPL	Mitigation by engineering techniques, cross-Delta route
136	20618-19	Mar.26		Dabbs Banfield	CAGPL CAGPL	Erosion problems, "DEW line route", North Slope
	20652			Sprague	MVPI	Possible erosion problems causing siltation at river crossings

DRAINAGE AND EROSION - CONTROL MEASURES

	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>	
XIX	2190-92	Mar.17	YK	Clark CAGPL	Importance re: pipeline integrity	
XIXA	2229-32	Mar.17	YK	Clark	Establishing procedures; environmental input; environmental consultants	
	2252-53			Clark	Steps to ensure proper control; designing control measures; surface & sub-surface drainage; revegetation; backfill mound breaks	
	2260-61			Clark	River banks, protection from erosion; temporary berms, rip-rap; maintenance program; revegetation, remedial measures	
	2285			Clark	Interior route; alluvial fans; channel degradation	
XXI	2478-86	Mar.19	Clark	PAAG concern; selection and placement of control measures; final design exercise; design manned; monitoring; revegetation slide presentation; control measures for slopes; gathering data; flow prediction; berm breaks diversion dikes; granular cap; gabions over mound break; ditch plugs; impervious plugs		
XXII	2606-16	Mar.20	Clark Slusarchuk	CAGPL	Diversion of surface drainage, cut in berm	
XXIII	2687-94	Mar.21	Clark	CAGPL	Berm breaks - drainage courses; erosion repairs, consideration of whole ecosystem	
	2700-01		Clark		Drainage design, servicing - summer/winter	
XXIV	2797-98	Apr.7	Clark	CAGPL	Gabions at berm break to prevent erosion	
	2820-27		Clark		Dikes to divert water, inter-plug erosion, ditch plugs, non-erodable backfill to assist drainage	
	2849-60		Clark Hardy		Revegetation, wind erosion, seeding-organic mat, drainage over berm	
XXV	3018-24	Apr.8	Hollingshead	CAGPL	Training works at river crossings	
XXVI	3151-54	Apr.9	Clark	CAGPL	Berm breaks; pipe through Templeton Wall	
	3263-71		Scott		MVPI	Berm breaks, surface water drainage, ground level maintenance, frost heave
XXVII	3329-32	Apr.10	McRoberts	CAGPL	Lack of control measures; sack breakers	
	3336		Williams	CAGPL	Sack breakers, pipeline construction	
	3370-71		Slusarchuk	CAGPL	Draining ponds, right-of-way	
XXVIII	3485-86	Apr.11	Clark	CAGPL	Culverts, perforated pipes	
	3525-28		Morgenstern	CAGPL	Sandwich technique, buttresses, re-vegetation	
	3555-56		Morgenstern	CAGPL	Drainage, gravel filters	
XXXIII	4338	Apr.21	Dau	CAGPL	Timber for rip-rap	
XXXIX	5122-55	May 15	Harlan	CAGPL	Backfill - stability, maintenance costs, revegetation	
	40	5229-32	May 16	Hurd	CAGPL	Pipe drains to remove excess water
42	5468-69	May 21	Hurd	CAGPL	Fires, vegetation layer	
46	6121-47	June 2	Adam	EPB	Use of vegetation	
47	6289-91	June 3	Templeton	EPB	Protection techniques assumed not proven effective	
	6301-13		Adam	EPB	Frozen annulus, icings	
48	6407-10	June 4	Adam	EPB	Sec. 22 of Code: design of facilities, thermal regime	
C-17	1723-24	July 17	F.L.	E.Dean	Citizen	Sand hill to be repaired
	51	6796	Aug. 11	WH	CAGPL	Right-of-way, river crossings, slope stabilization
62	6804-10	Sept.16	YK	Hemstock	CAGPL	Slope stabilization, revegetation and restoration
	8771-72			Mirosh	Foothills	Prevent frost heave; drainage of ditch
64	8845-46	Sept.18	YK	Mirosh	Foothills	Effect on drainage patterns; by frost heave attention given to drainage and erosion control measures; studies
	9295-98			Claridge	Foothills	Drainage patterns; methods of mound & adjacent terrain; mound breaks; granular blankets, vegetative mats, sand cement sacks; basins, backfill, diversion mounds, sealants, revegetation; size & frequency of mound breaks; decision to skirt the Ebbutt Hills
	9356a-60			Mirosh		Terrain typing; capital cost estimates of control measures

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64	9394-99	Sept.18	YK	Claridge	Foothills	Estimates of quantities of control materials; Ebbutt Hills routing
	9419-20			Spafford	Foothills	Culverts as a diversion for winter stream flow
65	9512-27	Sept.19		Panel 9	Foothills	Differences in approaches of CAGPL
	9547-86			Panel 9	Foothills	Thaw settlement prevention; problems of warm pipeline on slopes in fine grained soils in permafrost; sample areas of study by Foothills; relationship between permeability, slopes & drainage; installation during construction; mound breaks
66	9698-9700	Sept.22		Mirosh	Foothills	Gravel required on side slopes
	9813			Kosten	Foothills	Northerners employed in control work
67	9940-42	Sept.23		Mirosh		Stabilization measures after grubbing of stump one or two years in advance of construction
	9967-69			Mirosh		Control of run-off from pads
	9980-81			Mirosh		Repair of earlier measures; schedule of installation
70	10526	Sept.26		Owen	MVPI	Pointed Mountain line; eroding berm, replacement by gravel breaker misplaced
	10528			Owen		Exposed pipe on Fisherman Lake; use of rip-rap to halt erosion
	10559			Longlitz	MVPI	Prevent erosion caused by winter access roads; channeling of water onto vegetation mats
71	10685	Oct. 14		Bayly Longlitz	COPE/ITC	Erosion; interest by governmental departments, to minimize damage
72	10709-11	Oct. 15		Bayly		Resource Management Officers receive training - formal and in the field on control measures
79	11700	Nov. 3		Minning	CAGPL	Control measures to be employed at borrow sites
	11726-29			Dabbs	CAGPL	Vegetation as control measure
80	11785-99	Nov. 4		Dabbs		Seed mixes used in combatting erosion
	11842-47			Harlan	CAGPL	Use of insulated drains, slope stability and erodibility rating, drainage through mound breaks
	12124-25			Clark McCart	CAGPL CAGPL	Uses of berms to prevent siltation at borrow sites; water comes in active flood plains through berms
81	11989	Nov. 5		Clark		Installation of pipe through frost bulb to allow drainage
82	12145-55	Nov. 6		Dabbs		Areas sensitive to erosion would be hand seeded before mat laid - reseeding operation could not be completely aerial
83	12332-34	Nov. 7		Dabbs		Drainage and erosion control in Kotaneelee Valley, Pointed Mountain Pipeline; mistakes and remedies
	12393-94			Scott Williams	MVPI CAGPL	Gravel required near Thunder River site, right-of-way
	12412			Scott Minning		Control measures at borrow sites
84	12529-32	Nov. 8		Environmental Panel	CAGPL	For thawed excess spoil material disposed of
86	12842-48	Nov. 13		Claridge	Foothills	After construction, temporary measures, siltation, final design
90	13723	Nov. 19		Dabbs		Drainage across ditch to assure moisture to vegetation down-slope
116	17674	Jan.24	IN	Rempel	GPC-D-I	Contouring to prevent slope drainage
125	19063-69	Feb. 14		Lewis	COPE/ITC	Stabilization of Tuktoyaktuk shoreline; Tuktoyaktuk harbour dredging - placement of spoil down-stream of channel to prevent cliff erosion
199	31570-72	Oct.15	YK	Zemansky	COPE	Failure of Alyeska to properly implement erosion control and revegetation plans

DRUG USE

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XXVI	3089-90	Apr. 9	YK	Parker	Citizen	Letter, Exhibit C-9, increasing drug use in the north
C-8	715	June 25	FF	Nielly	Citizen	Fort Franklin
C-16	1562-3	July 13	OC	L. Netro	Citizen	Smuggling of drugs into Old Crow
53	7244	Aug. 13	WH	Sprecker	CYI	Restrictions in Alyeska Camps
C-20	2061	Aug. 7	FGH	A. Rabisca	Citizen	Pipeline increase in drug use
C-28	2789	Sept. 10	Wr	H. Hardisty	Citizen	Impact of highway at Fort Simpson re: "driferts" and drugs; effect on young people
180	27985-88	Sept. 7	YK	St. Eloi Dyck Nessel Whiteford	MVPI MVPI MVPI MVPI	Drugs in construction camps, searching suspected workers; hazards of workers high on drugs; legality of searching
131	8081	Sept. 8		LeClair	MVPI	Firing of workers who indulge, sufficient protection by RCMP
189A	29499-503	Sept. 22		R. Worl	COPE	Use of drugs in Barrow; marijuana, LSD; multiple use, sources

ECONOMIC FACTORS AND INSTITUTIONS

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144	21981-99	Apr.15	YK	Saul	NWT IB/MA	Economic contribution of nationalism in Africa; problems with economic policies of newly independent nations; loans from the World Bank; reliance on cash crops
	22058-59			Bean	NWT IB/MA	Financing for local improvements in the communities
145	22093-113	Apr.26		Rolfe Brownstone	NWT IB/MA NWT IB/MA	Problems with underdevelopment in Third World countries; self-help and relief projects of Oxfam; economy of Mozambique; destruction of indigenous economies
	22115-48			Clarke	NWT IB/MA	Place of Brazil in the World Market; role of transnational corporations in the development of natural resources in Brazil; traditional economies of the native people of Brazil
	22179-80			Clarke		Poverty cause of native decline, Brazil
146	22325-48	Apr.27		Page	NWT IB/MA	Economic factors involved in the building of the C.P.R.; financing of the project
147	22368-69	Apr.28		McCullum	NWT IB/MA	Scale of financing of pipeline project, possible effects on Canadian economy
	22491			Nahanni	NWT IB/MA	Canada's expansion to the west, historical, compensating Hudson Bay Company, land
149	22815	May 3		Simpson	NWT IB/MA	Basic characteristics of colonial economies
150	22856-61	May 4		Hills	NWT IB/MA	Aboriginal peoples, colonial - exploitative type institutions
	22874-76			Hills		Boom, bust nature of Brazilian economic development, marginal role of native people
	22877-78			Hills		Bauxite mining company nationalized, Guyana
	22889-99			Hills		Exploration of natural resources; transnational corporation, Brascan
	22928-38			Simpson	NWT IB/MA	Productive capacities of communities, societies
151	23170-73	May.5		Smith	CYI	Incorporation of a new public corporation with native shareholders
	23181-84			Smith		Foreign corporations
	23209-10			Smith		Public shareholding company, division of profits
154	23577-601	June29		Watkins	NWT IB/MA	Canadian development, staples sector; linkages to local, national economy; value of land, economic rent
	23604-12			Watkins		Native people, poverty, welfare; concept of dual economy; possible benefits if Dene had controlled fur trade; need for creation, two-sector economy
	23625-26			Watkins		Staples approach, industrial development; American interests, Canadian energy projects
155	23671-72	June30		Watkins		Staple production, generation, distribution of profits
	23699-703			Watkins		Regional development; inter-regional economic relations; definition of autarky
C-49	4772	May 10	VAN	Maultsaid	Citizen	Distribution of wealth
	4779-80			Deroo	Citizen	Development not beneficiary to the majority
	4784-87			Scoten	Citizen	Vancouver Board of Trade, concerned with economic impact to all Canadians
C-50	4982-84	May 11		Horte	CAGPL	Must develop energy sources for Canada's survival, heating homes, industry
	5016-18			Chark	Citizen	Funding for the pipeline, needs of U.S. being met by Canadian development of resources
	5040-44			Manly	Citizen	Pipeline not serving interests of all Canadians; concern over sending gas to U.S.
C-51	5111	May 12		T. Pearae	Citizen	Multinational corporations, economic goals, exploitation of natural resources
C-52	5227-28	May 13	CAL	R. Sykes	Citizen	Cost of delay of development of resources
C-53	5440-41	May 14		Iwaasa	Citizen	Bryce Commission, Canada affected by transnationals
	5514			Carter	Citizen	Development of north, political issue
	5526-33			Nickle	Citizen	Growth of the oil and gas industry, need for energy sources

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C-54	5626-31	May 17	EDM	Manning	Citizen	Socio-economic development launched by Provincial and Federal Governments and the Slave Lake Developments Limited in Slave Lake region
	5651-53			Kuhn	Citizen	Inflationary effects on the economy with construction of the pipeline
	5676-79			Laboucane	Citizen	Economic development must benefit local people
C-55	5931-32	May 18		B. Jahrig	Citizen	High inflation, labour demands; financing, resource exploitation
	5987-92			D. Leadbeater	Citizen	Foreign control of industry, conventional economic models
C-56	6126-27	May 19	REG	J. Roberts	Citizen	Pipeline will cause changes, budget priorities; inflation
C-59	6402	May 26	TOR	A. Powis	Citizen	Balance of payments, currency exchange rates
	6421-23			J. Meakes	Citizen	Impact on Ontario, trade balance; Canada's current account deficit
	6436-39			S. Acheson	Citizen	Effect on Canadian economy; amounts of capital needed; foreign control, oil industry, inflow of foreign capital
169	2621?-16	July 23	YK	Stanley	NWT IB/MA	Study of economic development, seven American Indian tribes; comparison of tribes in terms of number of factors related to development
	26223-27			Stanley		Passamaquoddy Indians, Maine, former control of Passamaquoddy Trust Fund by state government; now partial; control by Tribal council; cottage industries, fur trade, seafood industry, possibilities for Passamaquoddy people
	26231-37			Stanley		Pine Ridge, Oglala Sioux have different economic system from United States as a whole, no orientation toward profit
	26240			Stanley		Aid to Cherokees, Oklahoma from Office of Economic Opportunity; support from Oklahomans for Indian Opportunity
	26264-69			Stanley		Steps taken by various U.S. native groups to have economic self-sufficiency
183	28405-08	Sept. 10		Clarke	COPE/ITC	Inflation in housing market, solution

ECONOMIC FACTORS RELATED TO THE PIPELINE

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XV	1666	Mar.11	YK	Dau	CAGPL	Considerations re route selection
	1706-07			Dau		Route modifications, consultants
	1715			Dau		Route relocation
XVI	1759-78	Mar.12		Dau Gibbs	Foothills	Consideration of economic factor re route selection
	1871-74			Berger		Cross delta route change, financial factors
XVII	1900-04	Mar.13		Bell Dau	NWTIB/MA	Importance of in route selection
	1910-46			Bell Dau		Importance in route selection; communities; land use traplines
	1946-57			Bayly	COPE/ITC	Considerations in route selection; distance from communities; traditional use areas
XVIII	2082-98	Mar.14		Dau Scott	MVPI	Economic reasons for changing routes; security of supply
	2110-20			Dau Scott		Input into route change; distance from communities; impact of compressor stations on communities; proximity to Fort Simpson of route change
XXII	2647	Mar.20		Hollingshead	CAGPL	Dual crossing as insurance against break
	2659-61			Hardy	CAGPL	Overhead crossings; economic advantage
XXIII	2682-83	Mar.21		Clark	CAGPL	Economics of borrow material, royalties
	2737-38	Mar.21		Clark		Economic advantage of chilling pipe - not major
	2755-56			Williams	CAGPL	Cost estimate, ditching
XXIV	2768-69	Apr.7		Clark		Cost of geotechnical problems-pile support method
XXIV-A	2879-81			Clark		Socio-economic consultants' input, low cost construction
	2907-08					Cost of twinning, loss of revenue due to failure
	2942			Genest	CAGPL	Cost of twinning vs. loss of revenue from failure

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XXV	3032	Apr.8	YK	Hollingshead	CAGPL	Stable bank at crossing more economic
XXVI	3158	Apr.9		Slusarchuk	CAGPL	Deeper burial solution more expensive
	3220-21			Clark	CAGPL	Chilling, throughput
XXVIII	3493	Apr.11		Clark		Environmental and/or economic factors
XXIX	3650-51	Apr.14		Purcell	CAGPL	Optimum design with minimum unit cost
XXX	3735	Apr.15		Purcell		Selection of compressor station sizes
	3756			Purcell		Cost of transportation of gas
	3765			Purcell		Cost estimates above-ground pipeline, pile supports, repair costs
	3769-88			Gibbs Purcell	Foothills	Transportation costs, minimum unit cost 48" pipeline/ 42" alternative
	3849-50			Holmberg	CAGPL	Fracture arrestors/pressure reduction
	3864			Purcell		48" pipeline/ 42" alternative
XXXI	3993-94	Apr.16		Purcell		Buried/above-ground pipeline
XXXII	4029	Apr.18		Purcell		Looping more economical than adding compression
	4036-37			Purcell		Total cost transport of chilled and unchilled gas
	4077			Purcell		Minimum unit cost
	4102-03			Purcell		Chilling small advantage
	4114-15			Purcell		Cost of alternative power sources as opposed to gas
XXXIII	4234-35	Apr.21		Dau	CAGPL	Financial commitments for barges, wharves, etc.
	4254-64			O'Rourke	CAGPL	Transportation, tariffs and origin of pipe affect cost
	4277-79			O'Rourke		Barging requirements affected by prices
XXXIV	4387-95	Apr.22		Dau		Construction completion time
	4402-03			Dau		Hauling gravel, snow roads/all-weather roads
	4508-10			O'Rourke		Shipping costs for pipe, competitive bidding, additional barges needed
	4518			Hollingsworth	Foothills	Financial commitments, critical items, lead time for ordering
XXXV	4543	Apr.23		Marshall	CAGPL	More economical to barge pipe from Hay River to Arctic Red River
	4594-4600			O'Rourke	CAGPL	Bering Strait route cheaper than Mackenzie Valley system
	4614-18			Dau	CAGPL	Mackenzie Highway not substantially alter pipeline costs
	4634-40			Dau		Lead time to finance and construct barges
XXXVII	4710-12	May 13		Williams	CAGPL	Route east of Fort Simpson less expensive, dual crossings, cost of bringing gas to Fort Simpson
	4786-90			O'Rourke		Will not barge pipe beyond Arctic Red River's barging/ rail transportation
	4795-99			O'Rourke		Tariff/rates, carriers, transfer costs
XXXVIII	4953-54	May 14		Williams		Federal government control data vs surveys
XXXIX	5053	May 15		Dau		Capital costs of upgrading and building airstrips
	5137-41			Harlan	CAGPL	Cost of design flood, maintenance for erosion
	5157-60			Harlan		Cost of a spread - greater to over estimate
42	5510	May 21		Scott	MVPI	Short-term vs full repair in environmentally sensitive areas
	5546-49			Horte	CAGPL	Diameter of pipeline, feasibility of project, oversizing laterals
	5557-64			Horte		Additional horsepower
43	5580-87	May 22		Horte		Input to route selection
	5654-55			Horte		Reserves, volumes, pipeline diameter
	5697-5700			Horte		Oversizing, transportation costs, diameter of pipe
44	5764-67	May 23		Bell	NWT IR/MA	Cost of repairs to Mackenzie Highway if traffic increased
	5789-5812			Bell		Socio - economic factors, route selection
	5831-32			Horte		Route selection to deliver gas from two sources; large volumes of gas
	5844			Baylv	COPE/ITC	Social, economic conditions route choice

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44	5852-55	May 23	YK	Horte	CAGPL	Location near communities; possible gas service, economical distance
	5863-78			Horte		Cross delta route, more direct
45	5883-85	May 24		Bayly	COPE/ITC	Socio-economic consultants; changes in pipeline route
	5909-11			Bayly		Chilling, transportation of gas
	5923			Horte		Looping, adding horsepower
	5926-31			Bayly		Inputs to location of pipeline facilities
	5948-49			Bayly		Buying pipe outside of Canada
	5979-90			Scott	MVPI	Process of route selection
49	6538-43	June 5		Horte		Route selection - interior route preferable
	6585-90			Horte		Route selection, pipe specifications
50	6685-92	June 6		Horte		Important; routing consideration
	6699-6701			Horte		Movement of compressor stations, looping between stations
	6709-10			Horte		Responsibility not for construction manager
56	7810	Aug. 18		Scott		Cost of studies
				Horte		
	7851			Scott		Work stoppage
				Horte		
	7921-4			Blair	Foothills	Cost of oversized pipe capacity; market demand
58	8174-6	Aug. 20		Blair		Cost of environmental research; looping costs
	8202-03			Blair		Feasibility of lateral lines
	8214-17			Blair		Studies done by Foothills
	8237-8			Blair		Economic studies; pipeline route selection
59	8396	Aug. 21		Gibbs	Foothills	Foothills not carrying Alaskan gas
				Marshall	CAGPL	
	8476-8			Bell	NWT IB/MA	Pipeline location; greater proximity to communities for serviceability
				Fawcett	Foothills	
60	8533-35	Aug. 22		Scott	MVPI	Use of socio-economic consultants in Foothills route selection process
	8588-89			Hollingsworth	Foothills	Socio-economic advice, routing of Foothills line
52	7015-20	Aug. 12	WH	Veale	CYI	Benefits to Yukon residents
	7022-56			Dau	CAGPL	Relative weight in route selection
				Hemstock		
53	7060-77	Aug. 13		Trusty	CAGPL	Project impacts on northern economy
53A	7307	Aug. 13		Thompson	CARC	Intangible value of wild life and environment
C-23	2297	Aug. 14		A. Cabret	Citizen	Profit motivation of the south
	2302			D. Greg	Citizen	Inestimable value of wildlife
	2332-41			R. McCandless	Citizen	U.S. demand for northern resources; imposition of toll tariff
	2344-49			I. Warner	Citizen	Canadian control of developments
61	8602-14	Sept. 15	YK	H. L. Stevens	USWA	Financing of the pipeline; demand for pipe, materials and machinery; short term large project for Canadian steel mills; world supply of large size pipe
				R. Garlick	USWA	
				S. Cook	USWA	
62	8871	Sept. 16		Walker	Foothills	Cost factors; terrain; engineering considerations
	8912-14			Scrimes	Foothills	Costs of launching a communication satellite
65	9533-36	Sept. 19		Mirosh	Foothills	Cost penalty of operating warmer line through discontinuous zone
66	9719-32	Sept. 22		Kosten	Foothills	Advantages of using snow-making equipment
				Jarvis	Foothills	
	9757-60			Kosten		Cost estimates re blasting
67	9884-99	Sept. 23		Bauer	Foothills	Problems with the labour supply when overtime is restricted to prevent inflation
				Kosten	Foothills	
	9901-07			Kosten		Proportion of wages paid in overtime; economic effects of swing shift system without overtime
	9964-66			Kosten		Economic justification for summer spreads
77	11378-79	Oct. 22		Rutter	CARC	Consideration of socio-economic factors re: east of the Franklins route
78	11541	Oct. 23		Roed		Edge of the shield route could be altered by socio-economic considerations

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80	11816-18	Nov. 4	YK	Clark	CAGPL	Consideration of economics in decision of last point of chilling of gas
	11858-59			Hemstock	CAGPL	Potential oil and gas development, cost of access factors in choice of prime over east of the Franklins route
	11867-72			Hemstock		Cost saving involved in Cross-Delta route
	11923-24			Clark Berger		Cost of placing line on piles in ground
	12079			Minning	CAGPL	Distances involve costs in hauling borrow
	12083			Williams	CAGPL	Royalty paid for land use
81	12090	Nov. 5		Hemstock		Reclamation of metal equipment; disposal of wastes in gravel pits; cost of ridding north of oil drums
82	12236	Nov. 6		Scott	MVPI	Priorities of money allotted to programs e.g. revegetation of borrow pits
86	12963	Nov. 13		Lawrence	Foothills	Hauling camp water long distances
	13001			Williams	Foothills	Reduction of working days, cold weather
87	13070-74	Nov. 14		Bouckhout Davison	Foothills Foothills	Haul distances to granular sources.
	13169-70			Marshall Reeves	CAGPL Foothills	Industry funding of archaeological programs
88	13275	Nov. 17		Berger		Increased costs if construction extended one year
91	13858-92	Nov. 20		Dau	CAGPL	Capital costs, gas costs
109	16728	Jan. 14		Veale	CYI	Necessity for a developed infrastructure re: economic activity; Yukon is more developed than the N.W.T.
155-A	23861	June 30		Telliss	NWT IB/MA	Changes in institutional arrangements must occur if Mackenzie Valley Pipeline is not to have same economic effect as Pointed Mountain gas project
C-54	5588	May 17	EDM	McKenzie	Citizen	Economic impact will be felt from Arctic coast to the U.S. border
203	32235-37	Nov. 18	YK	Bell	NWT IB/MA	Feasibility of economy based on renewable resources

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C-1	56-57	Apr. 2	Aklavik	Ross	Citizen	Papers to be a powderman, seismic crew
C-II	74	Apr. 3		Norbert	Citizen	Witness attended Northern Alberta Institute of Technology
C-4	282-292	May 28	Hay River	S. Dean	Citizen	A.V.T.C., training institute, Fort Smith
C-5	333-346	May 29		Graves	Citizen	Tradesmen certification, Apprentice programs, literacy programs
	396-407			Graves		Apprenticeship program
C-6	560-565	May 30		A. Norn	Citizen	Training for heavy duty equipment operator
C-10	958-60	June 27	F.N.	Stewart	Citizen	Mannix Company training program
C-17	1720-4	July 17	F.L.	H. Deneron	Citizen	Training for job with Foothills
C-21	2148	Aug. 9	NW	R. Laycock	Citizen	Answer for native power
68	10079-81	Sept. 24	YK	Hushion	Foothills	Training of northerners may not be accepted as par by unions
100	15254	Dec. 10		Bouckhout	Foothills	Development of construction worker environmental program
C-26	2698	Sept. 9	FS	Lamothe	Citizen	Adult Education Centre re: Fort Simpson program
C-33	3198-99	Oct. 9		Christiansen	Citizen	Recommendation for Community College in Fort Smith to meet demand
128	19488	Feb. 18	IN	Trudeau	COPE	Enforcement officer training at Lethbridge Community College, N.A.I.T., Vancouver Police Academy
142	21548-49	Apr. 13	YK	Giroux	NORTRAN	Educational upgrading of trainees entering the Nortran program
C-44	4183-84	Mar. 8	TUK	J. Steen	Citizen	Native people trained to work on DEW line, DIAND program, benefits; request that school be reopened in Inuvik, training for pipeline work, native participation
	4296-97	Mar. 9		Etagiak	Citizen	Need for on-the-job training to work on pipeline

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C-55	5896-98	May 18	EDM	H. Cardinal	Citizen	Proposal of joint, inter-governmental project, Treaty Indian Training Corporation; Alberta Department of Advanced Education
165	25533-34	July 19	YK	Jensen	Foothills	Adult education programs to upgrade skills resulting from pipeline development; Basic Job Readiness Training and Basic Training for Skill Development
	25657-58			Lane Jensen	COPE/ITC	Upgrading education to have better job
C-72	8106	Aug 11	RE	R. Whitford	Citizen	Need for vocational school in Rae/Edzo to combat unemployment
171	26532-34	Aug 17	YK	Deyell	Foothills	Alberta, NAIT and SAIT programs as alternative to expanding Nortran
176	27415	Aug 24		Robinson	COPE/ITC	Funding of northern students, natives, small share
180	27839-40	Sept. 7		Hodson	MVPI	Canada Manpower Adult Training Programme, lack of funds to finance courses
181	28047	Sept. 8		McCambly	MVPI	Union programs, upgrading
	28073-74			LeClair	MVPI	Location of facilities, cost of having them in north
184	28530-31	Sept. 14		Atcheson	COPE/ITC	Need to instruct natives so can take on leadership roles for future development
198	31262-66	Oct. 14	YK	Carnew	MVPI	Background of Continuing Special Education Division of Department of Education, NWT government; General Education programs; academic upgrading programs; Adult Occupational Training Act; AVTC, Fort Smith; Health and Social Service Education Programs; Technical and Business Programs; Student Counselling Services; Research and Planning
	31272-74			Carnew		Professional student counselling services; status of continuing education and training in NWT
198A	31440	Oct. 14		Schulz	MVPI	Average educational level of trainees in Alyeska and union on-the-job training program; Alaska Skill Center; Job Corp; West Coast Training Center, Portland, Oregon

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C-5	328-346	May 29	Hay River	Graves	Citizen	Impact of pipeline on education system, Hay River area
C-7	670-71	June 24	F.F.	Menico	Citizen	Children should also be taught traditional way of life
C-16	1595-99	July 13	O.C.	B. Sharpe	Citizen	Many local programs in Old Crow school
106	16274-75	Dec. 18	YK	Lent	CARC	Results of pipeline construction in Fairbanks re: overcrowded school system, split school shift
C-25	2509-12	Sept. 8	FS	Black	Citizen	Need for Senior High School facility, bi-cultural education program
C-26	2669-70	Sept. 9		G. Antoine	Citizen	Lester B. Person College of the Pacific, concepts of the Colleges, beliefs paralleled with the Dene
C-30	2890-93	Oct. 6	PP	Osing	Citizen	Facilities; need for skilled labour training program
113	17176-82	Jan. 21	IN	Hobart	GPC-D	Overview of Mackenzie Delta area
	17225			Hobart		Native input into school curriculum, Rae-Edzo
148	22704-06	Apr. 29	YK	Asch	NWT IB/MA	Teachers remaining only minimum of time, each new teacher bringing new methods and programs, causing confusion for the children
152	23319-21	May 6		Cruikshank	CYI	Yukon education curriculum modifications
C-46	44 33-34	Mar. 11	PAUL	P. Green	Citizen	Unsuitability of white education, loss of way of life
	4465-66			R. Kirby	Citizen	Eskimos in residential schools, feelings of uselessness; return to land after education
	4475-79			A. Ruben	Citizen	Loss of Eskimo language at school, punishment for speaking Eskimo; inability to cope in school and at home; problems adjusting to town life

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C-50	4916-19	May 11	VAN	Koval	Citizen	Number of native lawyers; U.B.C., good education in native rights, other law schools
C-60	6698-703	May 27	TOR	J. Hart	Citizen	Cross-cultural learning program, Yellowknife, Inuvik
176	27363-68	Aug 24	YK	Button	COPE/ITC	Boarding schools, inadequate curriculum for native needs; counselling system
	27403-14			Robinson	COPE/ITC	Design to fit native needs, instruction in mother tongue; input of natives; nutrition and diet plan for students
	27433-40			Button Robinson		Community control; tax base
	27471-75			Robinson		Problem of inconsistent standards, question of language instruction
190	29671-74	Sept. 23		Fergusson	NWT/AM	Elementary and high school education in Hay River; drop-out rate; projected classroom needs; areas for school facilities
202	31938-40	Nov. 17		Bayly	COPE/ITC	Inuvialuit control of educational institutions, curriculum, programs
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C-I	16-17	Apr. 2	Aklavik	Furlong	Citizen	Children have to travel to go to school beyond Grade 8
	18-19			Carmichael	Citizen	Children are attending school
C-II	72	Apr. 3		Norbert	Citizen	Hostel system in the Territories; loss of language, culture
	75-77			Norbert		System of the north; lack of instruction in the native languages
C-5	400-407	May 29		Graves	Citizen	Size of school system, Hay River area; number of native employees
C-7	617	June 24	F.F.	Kenny	Citizen	Teaching children about trapping more important
C-8	689-94	June 25		D.Shay	Citizen	Education for native children
C-9	781-82	June 26		C.Modeste	Citizen	Children receive education living in the bush with parents
	805			R.Savi	Citizen	Introduction of schools by government
C-10	872-6	June 27	F.N.	P.Andrew	Citizen	Type of schooling; impact on native children; hostel life
	916-23			D.Yakaleya	Citizen	Presentations by pipeline companies, public interest groups in schools; cultural, social impact of schooling on native children
	925-32			A.Lennie	Citizen	Need greater control, input by native people
	941-43			A.Yakaleya		Children should be taught way of life in bush as well
	954-55			H.Naedzo	Citizen	Witness' experiences
C-11	995	July 8	F.McP	N.Colin	Citizen	Anglican Mission school, Fort McPherson
C-12	1078-9	July 9		P.Blake	Citizen	No teaching about Indian heritage
C-14	1301-2	July 11	O.C.	C.Charlie	Citizen	Teaching of native language in school
C-15	1411-13	July 12		S.Frost	Citizen	School Committee, Old Crow; teaching of native language high school in Whitehorse
C-16	1561	July 13		L.Netro	Citizen	Young people have to leave home, way of life to continue their education
	1583-1624			R. Sharpe	Citizen	School in Old Crow
C-17	1736-37	July 17	F.L.	Father Mary	Citizen	Formal schooling does not help native children
	1755-6			P.Nahanni	Citizen	Government take over of schools, Fort Simpson
C-18	1786	Aug. 5	FGH	J. T ¹ Seleie	Citizen	Imposition of the southern system
	1804-05			J. Lafferty	Citizen	Education blamed for cultural conflict among natives
	1820-21			J. Caesar	Citizen	Negative effects of southern-style education
C 19	1881-82	Aug. 6		T ¹ Seleie	Citizen	Negative influence on native lifestyle
C-20	1935-39	Aug. 7		A. McNeely	Citizen	Education should be integrated with Dene culture

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C-20	1939-42	Aug. 7	FGH	M.R. Drybone	Citizen	Difficult adjustment to educational system			
	1981-86			A. Tobac	Citizen	Loss of native culture			
	1998-02			T. Pierrot	Citizen	Difference between mission & government schools			
	2006-09			B. Shae	Citizen	Loss of native language & training			
	2016-19			F. Barnaby	Citizen	Change in education of young people			
	2021-23			L. Pierrot	Citizen	Absence of Dene training			
	2036			E. Cook	Citizen	Experience at Aklavik Mission School			
	2039-41			M. Cotchilly	Citizen	Difficulty of learning in foreign language			
	2044			B. Edgi	Citizen	Purpose of education			
	2047			W. Kelly	Citizen	Integration with Dene culture			
	2064-65			F. Rabisca	Citizen	Inadequate training for wage economy			
	2069-70			J.T ' Seleie	Citizen	Southern-education compared to traditional			
	C-21			2078-82	Aug. 9	NW	P. Howard	Citizen	Concerns of Parent-Teachers Association
				2093-96			G. Monuik	Citizen	Natives in school system
2124-25		C. Barnabe	Citizen	School facilities					
2132-33		E. Koren	Citizen	School experience; hostels					
2137-40		C. Tourangeau	Citizen	School experience; hostel					
2148		R. Laycock	Citizen	Programs available to natives					
2193-94		J. Ross	Citizen	Loss of native culture					
72	10702-11	Oct. 15	YK	Rayly Longlitz	COPF/ITC MVPI	Education requirements for Resource Management offices; technical school re forestry, resources education; on-the-job training and formal training connected with the position; ecological and landform awareness			
C-24	2455	Aug. 23	NB	Father Mary	Citizen	Sending the children away to boarding school at Fort Simpson			
C-25	2500-12	Sept. 8	FS	Black	Citizen	Schools past, present, need for training, bi-cultural education programs			
	2522-23			Casavant	Citizen	Inadequacies of present educational program			
C-26	2655	Sept. 9		Villeneuve	Citizen	Providence school, sent by Mission, learned to read and write			
	2657-59			Nahanni	Citizen	Fort Providence re: Convent School; influence of Roman Catholic religion; Fort Smith and Yellowknife schools re: conspiracy to destroy Dene; drawbacks of education system re: dependency, competition			
	2665-69			Menicoche	Citizen	Impact of return to traditional means of support re: children in school; benefit of education			
C-27	2727-28	Sept. 10		Cummings	Citizen	Results of further education - children do not return to family, lack of jobs			
C-28	2790-92	Sept. 10	Wr	H. Hardisty	Citizen	Guidelines for teaching approach to different ways of life			
	2830-31			E. Hardisty	Citizen	Northern teaching re: bush life, trapping, tanning, moccasin sewing			
C-31	3003	Oct. 7	FR	Morin Mirosh	Citizen Foothills	Qualifications for native training programs			
	3006-09			McLeod	Citizen	Schooling system - historical - Aklavik; Racism at university level			
	3010-11			Yale	Citizen	Impact on traditional lifestyle of natives			
C-35	3435	Oct. 22	LI	Naylor	Citizen	Need for serving of lunch to children at schools			
C-36	3529-31	Jan. 29	IN	Sineok	Citizen	Church education; lack of ethnic polarity in public schools			
113	17176-85	Jan. 21	IN	Hobart	GPC-D	Overview of Mackenzie Delta area			
	17187-88			Hobart		Effects of introduction of schools in Delta area			
	17194			Hobart		Identity problems for natives in school			
	17203			Hobart		White values rubbing off on native children in school			

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113	17258	Jan. 21	IN	Hobart	GPC-D	Education of children living with family at work sites
117	17877	Jan. 26		Bayly Wopnford	COPE/ITC GPC-D-S	Impact on education process, drop-out rate
141	21509-10	Apr. 9	YK	Cournoyca	COPE/ITC	Need to improve northern education program
142	21565-70	Apr. 13		Virtue	NORTRAN	Upgrading educational levels of Nortran trainees
143	21689-98	Apr. 14		Virtue		Necessary education levels for Nortran program, apprenticeship programs
	21803-06			Cardinal	I.A.A.	Need for evaluation of priorities, programs of Indian education
147	22419-421	Apr. 28		Richardson	NWT IB/MA	Cree School Board, to be in control of local schools, curriculum; example of staggering school year, N.W.T.; provision for Inuit School system
	22509-10			Nahanni	NWT IB/MA	CAGPL statement that natives more interested in education than traditional pursuits, in order to enter the wage economy
148	22605-06	Apr. 29		Nahanni		Need for change in education system, to be complimentary to way of life
	22660-62			Rushforth	NWT IB/MA	Fort Franklin, early development, children to attend school if parents to receive pensions and assistance from the government
	22703-06			Aesch	NWT IB/MA	Prior to formal education, parents responsibility to educate children; now taught by teachers of an alien culture
	22717			Aesch		Schools located far from bush collection centres
149	22798-99	May 3		Ritter	NWT IB/MA	Program to develop a curriculum for use in schools, NWT and Yukon
	22812-14			Simpson	NWT IB/MA	Problems in schools, educational programs, Third World countries
150	22999-23000	May 4		Bean	NWT IB/MA	Quotation from Foothills application on impact of the education system
151	23108-09	May 5		Cruikshank	CYI	Alaska highway construction, increased students, new schools
153	23422-23	May 7		Sharp	CYI	Ross River school
	23434-41			Sharp		B.C. curriculum taught in school at Ross River; families have to live in communities in order to send children
C-47	4547-48	Mar. 13	ARR	T. Andre	Citizen	Lack of education to work on pipeline
	4568			N. Norbert	Citizen	Impact of hostel education system on Inuit children
154	23568	June 29	YK	Puxley	NWT IB/MA	Colonial system, Dene education, NWT
156	23907-20	July 1		Gillie	NWT IB/MA	Development of education in north; by end of 60's -95-98% school age children in school; creating future leaders
	23922-30			Gillie		Dene to be in control of education program
	23932-44			Yazzie	NWT IB/MA	Developing education programs for Navajo Indians; bilingual, bicultural, biliteral and bicognitive schools
	23945-60			Kakfwi	NWT IB/MA	Dene experience of education, system imposed; resolution passed at June 1974 assembly re: education ordinance
	23903-73			Yazzie Gillie		Experience at Rough Rock school, Arizona, Navajo Indians
	23973-86			Gillie Kakfwi		Development of school in Rae, education expansion when new development comes to the north
C-50	4866-74	May 11	VAN	Gillie	Citizen	Loss of native culture through southern education
C-51	5165	May 12		G. Watts	Citizen	Effect of system on native people
C-55	5825-31	May 18	EDM	H. Daniels	Citizen	Poor schooling, teachers, facilities
C-61	6835-36	May 28	TOR	P. Lane	Citizen	Effects of pipeline on system; little native control; native drop-out rate
C-62	6903	May 31	MTL	Ciaccia	Citizen	Cree, Kativik School Boards created under James Bay Agreement
	6918			Delisle	Citizen	Dissatisfaction with having to receive education from Non-Indian School Boards

EDUCATION (FORMAL) - GENERAL (continued)

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C-63	7064	June 1	MTL	Boucher	Citizen	Sending native school children away to schools, breaking down their cultural heritage which their parents would provide
C-64	7345-47	June 3	OTT	Seaborn	Citizen	Need to retain native culture alive, especially in education
159	24515-17	July 7	YK	Boorkman	CAGPL	Secondary students, double shifts in schools, Alaska
160	24690-91	July 8		Rushforth	NWT IB/MA	Effect on traditional roles of women; does not prepare children to live in bush
	24712-13			Asch	NWT IB/MA	Family, local people should control the system
164	25333	July 15		Hobart	CAGPL	James Bay settlement, establishment of Cree, Inuit School districts
165	25531-34	July 19		Jensen	Foothills	Formal education in Mackenzie district, cost, enrollment, administration; effect of pipeline on education system
	25585-86			MacLeod	Foothills	Main incremental cost involves hiring of additional staff, Inuvik, Norman Wells, Fort Simpson schools
	25656-57			Lane Jensen	COPE/ITC Foothills	Increased high school enrollments predominately white; vocational schools, natives
166	25694-97	July 20		Jensen		Development impact on education, increased pressure on facilities with population expansion
167	26018-23	July 21		Brody	COPE/ITC	Reluctance of Inuit parents to send children to settlement schools
169	26314	July 23		Ruttan	NWT IB/MA	Lack of public education in environmental and resource management
C-69	7940-41	July 17	KL	H. Simba	Citizen	Local people went to boarding school in Fort Providence, classes in French
C-73	8159-60	Aug 12	LIM	Chief Beaulieu	Citizen	Young people do not continue education past grade ten
	8221-23			E. Zoe	Citizen	Lack of formal education; competition with educated people for good jobs
C-74	8297	Aug 13	RI	J. Tailbone	Citizen	Low attendance of natives, low success rate
C-75	8338	Aug 21	CL	J. Martin	Citizen	Mother kept child from school
172	26833	Aug 18	YK	Dittrich	COPE/ITC	Imposition of southern ways instead of native traditional lifestyles, examples in education
173	26993-95	Aug 19		Dusel	NWT/AM	Inuvik, demands which will have to be met with expanding population, according to Makale report "General Plan for Inuvik "
	27009-10			Dusel		Fort Simpson, projections for education demands
	27021-22			Dusel		Hay River, present facilities
174	27098	Aug 20		Dusel MacQuarrie	MHA/NWT	No anticipation of shift-basis of school attendance in Fort Simpson
176	27391-97	Aug 24		Robinson	COPE/ITC	Structure unsuitable to natives, suggested control by native
	27400			Robinson		Recognition of native concerns
	27416-28			Robinson		Financing; no control by natives; literacy how and what children learn; more native involvement suggested
	27441-46			Robinson		Community designed and controlled schools, training of teachers
	27453-60			Robinson		Curriculum and language, consequences of community control of schools
	27475-81			Robinson		Standards, state vs community control; problem of short stay of teachers in communities
184	28536	Sept. 14		Atcheson	COPE/ITC	Disapprove of removing children from homes
187	29093-94	Sept. 17		Berger Falk	NWT IB/MA	Rough Rock, U.S. natives have control over schooling of children; establishment of School District in Quebec for Cree and Inuit; in B.C. for Niska
192	29985-88	Oct. 4		Krauss	MVPI	Native languages in Alaskan schools, minimum number of children who speak a native language

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192	30002-03	Oct. 4	YK	Ritter	MVPI	Sporadic, unco-ordinated efforts to teach native languages; "cultural inclusion" grant available to local school committees; schools exert destructive effect on native languages	
	30038-40			Bayly Krauss	COPE/ITC	Qualified teachers in schools who speak the native language; bilingual education gives control to native people	
	30052			Ziskrout Krauss	CAGPL MVPI	Importance of language retention in schools	
203	32166-67	Nov.18		Veale	CYI	Old Crow school is Indian in nature and culture; in-migration will change this; drop-out rate	
204	32316-21	Nov.19		Parker	NWT Govt	Past and present school systems, development of educational programs; new Education Ordinance translated into Inuktitut; grammars in native languages; community participation in school system; northern college	
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XXVI	3088-90	Apr.9	YK	Scott	MVPI	Nurse Parker's letter, Aklavik, hunting, trapping, fishing or pipeline	
44	5791-94	May 23		Bell	NWT IB/MA	Number of workers	
C-4	229-237	May 28	Hay River	Lennie	Citizen	Employment of local people, Hay River	
	275-286			S.Dean	Citizen	Local contractors, local labour	
C-5	337-346	May 29		Graves	Citizen	Tradesmen certification, apprentice programs	
	451-454			Ferguson	Citizen	Turnover in jobs, N.W.T.	
C-8	682-83	June 25	F.F.	Touchou	Citizen	Native people hired to work on boats	
	714-15			C.Nielly	Citizen	Work available, Fort Franklin	
51	6811-14	Aug.11	WH	Hemstock	CAGPL	Economic development; greater job opportunities; pipeline related jobs; available labour force	
C-19	1892	Aug. 6	FGH	M. Heming	NHW	Concern re industrial accidents	
61	8603	Sept.15	YK	H.L. Stevens	USWA	Increased employment in manufacture of pipe, materials, machinery; slump to follow after pipeline completion; availability of Canadian workers	
6R	10072-82	Sept.24		Hushion	Foothills	Numbers of northerners to be employed in district and division offices; training and advancement; problem of northerners achieving union standards of qualifications	
C-25	2479-83	Sept. 8	FS	Erion	NWT CC	Economic, work ethic history, Fort Simpson as a development staging point for Mackenzie Corridor	
	2576-80			Casavant	Citizen	Present job opportunities, pipeline impact on employment	
C-29	2860	Sept. 12	JMR	Norwegian	Citizen	Sawmill at Jean Marie River	
C-30	2947-48	Oct. 6	PP	Milan	Citizen	Establishment of secondary industry for Territorial worker	
C-32	3034-40	Oct. 8	FR	Orbell	Citizen	Fort Resolution employment re: Catholic Mission, wharf-sites, packing plant, jobs on tugs, commercial fishing, radio station, airport, mine, sawmill	
	3078-79			L. Beaulieu	Citizen	Bias when hiring, pressure to quit, local dissatisfaction with government jobs	
	3087-89			McConnell	Citizen	Wage scale employment, effect on native people; native employment at Pine Point Mines, training programs	
C-34	3253-54	Oct. 15	YK	Duesterhus	Citizen	Necessary for good life; northern climate restricts opportunities; benefits offered by pipeline construction	
	3315-17	Oct. 16		Loftus	Citizen	Jobs to encourage development and expansion; creation of jobs in service industries; jobs for natives in growth centres	
	3322			Humphreys	Citizen	Norman Wells situation - no attempt to hire or train northerners, practical experience overlooked	
	3352-53			Castille	Citizen	Railroad to Pine Point - Indian and Eskimos trained as engineers and linesmen, union interference	
114	17353	Jan.22	IN	Mainland	GPC-D-I	A genuine concern for local employment, Campbell Lake borrow site.	
116	17693-95	Jan.24		R. Pederson Kamingoak	Citizen Citizen	Gulf employment in Coppermine, native benefits	

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117	17886-88	Jan. 26	IN	Bayly Wopnford	COPE/ITC GPC-D-S	Limited opportunities prior to oil industry in delta, unemployment
118	17956-62	Jan. 27		Goudge Sider Tod Wopnford	MVPI GPC-D-G GPC-D-I	Problems with lack of advance notice, difficulties, resolution; use of expediter
149	22822-23	May. 3	YK	Simpson	NWT IB/MA	People uprooted by hydroelectric projects, Third World countries
150	22916-19	May. 4		Hollingworth	FOOTHILLS	Few natives employed in construction, James Bay
151	23088-89	May. 5		McClellan	CYI	Alaska highway, imported labour force
	23096			McClellan		Use of American soldiers to construct Alaska highway
	23133-35			Cruikshank	CYI	Numbers required to build Alaska highway
147	22434- 37	Apr. 28		Richardson	NWT IB/MA	Willingness to work, native, James Bay, problem of hiring in south, not locally
148	22725-26	Apr. 29		Asch	NWT IB/MA	Employment situation as reported in Van Ginkel report
149	22822-23	May 3		Simpson		People uprooted by hydroelectric projects, Third World countries
150	22916-19	May 4		Hollingworth	Foothills	Few natives employed in construction, James Bay
151	23088-89	May 5		McClellan	CYI	Alaska highway, imported labour force
	23096			McClellan		Use of American soldiers to construct Alaska Highway
	23133-35			Cruikshank	CYI	Numbers required to build Alaska highway
153	23509-11	May 7		Sharp	CYI	Shift arrangements, Anvil Mine, free time
C-49	4790-92	May 10	VAN	Scoten	Citizen	Job opportunities with pipeline project
C-50	4954-56	May 11		Obedkoff	Citizen	Meaning of working in a resource industry, limited lifestyle
C-51	5183	May 12		P. Chataway	Citizen	Jobs on Alyeska pipeline; unemployment rates
C-52	5325-29	May 13	CAL	B. Sider	Citizen	Statistics on northerners, petroleum industry
C-53	5450-54	May 14		Pearce	Citizen	Pipeline would provide new income opportunities for northerners, training programs
C-55	5840-42	May 18	EDM	S. Johnson	Citizen	Job security, costs of working, oil companies; chances for native employment
	5860-64			O. McDougall	Citizen	Pipeline will ensure jobs, oil and gas industry
	5911-12			A. Moberly	Citizen	Competition with southerners; lack of skills
C-56	6069-72	May 19	REG	P. Gallagher	Citizen	Culture of poverty, effect on ideas about jobs
C-60	6636-37	May 27	TOR	R. Snyder	Citizen	New business opportunities
C-62	6885	May 31	MTL	Poirier	Citizen	Whilst average unemployment was 3%, that of natives was 80%
C-63	6985-86	June 1		Schiblie	Citizen	Native people seldom benefiting from employment due to demand of highly skilled employees
	7031-38			Ford	Citizen	Employment impact of pipeline
C-64	7269-74	June 3	OTT	Hollands	CAGPL	Estimates of available native manpower, Nortran
159	24306-09	July 7	YK	Boorkman	CAGPL	Alyeska, impact on opportunities in Alaska - increase in size of work force, creation of jobs in secondary areas; unemployment in the state due to influx of those looking for jobs, and entrance of previously unemployed to work force; high labour turnover
	24341-43			Boorkman	CAGPL	Alyeska, increase in Alaskan unemployment; mismatch between jobs and skills
	24465-70			Boorkman J. Weinstein	CAGPL	Multiplier effect of the pipeline, growth in number of jobs
	24551-77			Boorkman Trusty	CAGPL	Alaska, unemployment rate, 1970-73
159-A	24586-90			Boorkman		Rise in unemployment after Alyeska completed
161	24832-36	July 12		Trusty		Jobs involved in maintenance that are not listed in category positions; hiring of summer holiday relief
	24872-79			Hollands		Questionable whether northerners will want jobs; young people entering job market

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163	25244-45	July 14	YK	Trusty	CAGPL	Government growth, possible future increase in number of employees
166	25699-105	July 20		MacLeod	Foothills	Turnover rate of employees, government and private sector
174	27106-08	Aug 20		Lainsbury	NWT/AM	Ratic between direct and induced employment; family heads make up induced employment
176	27385-87	Aug 24		Button	COPE/ITC	Mobility as a result of high wages, permanent employment unnecessary
178	27650-56	Aug 26		Merrett Pritchard	MVPI MVPI	Primary, stretch out in construction provide local people with more work, reduce imported labour
	27662-64			Merrett Prtichard		Stretch out in construction reducing transients and and in-migration
179	27746-52	Aug. 27		Runge	MVPI	Growth in primary and secondary jobs, division between temporary and permanent, job multipliers, jobs filled by northerners affect number of induced positions
	27766-67			Runge		Problem of getting enough local residents to build houses
	27775			Runge		Housing, assembly procedure, site preparation is done by locals
181	28166-67	Sept. 8		Reimer Mitchell	MVPI MVPI	All workers should have right to organize, protection
	28203-05			McRae Breckenridge	MVPI MVPI	Incentives for people to work in job outside pipeline, tax, wages, housing
198	31166-77	Oct.14		Gates	MVPI	Temporary summer employment for students; Student's Summer Employment Assistance Program co-ordinated by Department of Manpower and Immigration; Local Initiative Program (LIP) and Local Employment Assistance Program (LEAP); community employment strategy; employment and training work groups in communities; manpower planning; response of immigrants to increased job opportunities
	31223-25			Witty	MVPI	No equality of opportunity for employment in NWT because employment does not exist; communities with substantial economic base: Yellowknife, Hay River, Pine Point, Tungsten, Inuvik, Arctic Bay, Nanisivik, Resolute Bay, Echo Bay, Norman Wells
	31231-35			Witty		"No development" approach will produce unemployment; employment in Aklavik, unemployment rate; employment preferred to transfer payments
	31317-19			Gates		Locations of LEAP projects in Mackenzie Valley
	31339-40			Sterling	MVPI	Training for administrative, communications, journalism and paraprofessional and social activities
	31351-53			Witty	MVPI	Special employment programs, Dome Petroleum and Gulf Coppermine; local community initiated projects, Fishermen's Co-op in Hay River
	31362-64			Witty		Majority year round jobs in NWT; difficulty in filling positions in oil and gas exploration
	31385			Forth		LIP and LEAP programs will not be phased out
198A	31453-56	Oct.14		Christie	MVPI	Manpower Development Program staff; number of people placed on pipeline jobs

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72	10700-11	Oct. 15	YK	Bayly Longlitz	COPE/ITC MVPI	Land use officers; hiring practices, education requirements and training programs; native training; formal and field training
153	23434-35	May 7		Sharp	CYI	Facilities and services for government employees left marked change on Ross River community
174	27107	Aug 20		Lainsbury	NWT/AM	Included in induced employment.
198	31353-61	Oct.14		Witty Forth	MVPI MVPI	Turnover rate; reasons why northerners unattracted to government positions; territorial government more successful than federal in attracting northerners; recruitment to federal positions

EMPLOYMENT - HIRE NORTH/WORK ARCTIC

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C-4	222-223 287-292	May 28	Hay River	Stewart Demelt	Citizen Citizen	System of project, hours of work, etc. Training heavy duty machine operators
C-5	432-436	May 29		Stewart		Work Arctic principles; hiring of native people
74	11011-12	Oct. 17	YK	Williams	CAGPL	Use of snow roads; clearing of the right-of-way; use of cats for piling brush at Camsell Bend and Blackwater River
C-24	2403-08 2408 2458	Aug. 23	TL	E. Jumbo Nahanni Nahanni	Citizen NWT IB/MA	Working on Mackenzie Highway near to Fort Simpson; continuing jobs Some trapper left for Hire North project due to poor trapping in 1975, fur price low Some trappers at Hire North Camp
C-25	2495 2591 2596	Sept. 8	FS	Erion Lamothe Lamothe	NWT CC Citizen	Authority to co-ordinate local manpower Social impact of temporary high wages Hire North - social impact
C-27	2739-45 2771-72	Sept. 10		Dodd Michaud	Citizen Citizen	Clarification of Hire North policies re: wages, marriage breakdown, alcohol abuse, development Question re: Berger's intention to visit Hire North
C-28	2784-86 2794-95 2833 2842-44	Sept. 10 Sept. 11	Wr	H. Hardisty H. Hardisty Berger H. Hardisty	Citizen Citizen	Mackenzie Highway contract; conflict with Wrigley re: construction of highway River Between Two Mountains Hire North camp re: effects on trapping Visit to Hire North Camp No. 1; examination of construction on Mackenzie Highway Re: purchase and use of logs and types of jobs given to natives
C-30	2908-09	Oct. 6	PP	Mirosh	Foothills	Training program
C-31	3012-13	Oct. 7	FR	Sayine	Citizen	Native employment re: highway construction
C-33	3162	Oct. 9	FS	Mercredi	Citizen	Success of program, suspension of program
C-35	3432-33	Oct. 22	LI	Carter Littledale	CAGPL Foothills	Training, hire of women
C-36	3503	Jan. 29	In.	Burrell	Foothills	Use of trainees in field surveys
156	23949	July 1	YK	Kakfwi	NWT IB/MA	Government solution to Dene opposition of Mackenzie Highway - "Hire North Project"
C-55	5966-67	May 18	EDM	R. McFarland	Citizen	Training program, building fifteen miles of Mackenzie Highway
157	24129-30	July 5	YK	Hobart	CAGPL	Hire North program reflects popularity of wage employment
158	24193-95	July 6		Hobart		Curtaillment due to lack of government funding; normal wages in comparison to Alyeska
170	26474	Aug 16	YK	MacLeod	Foothills	Could have 500 people at any time at their disposal.
197	30991-97 31023-25	Oct. 13		Bergasse Berger Bergasse	MVPI	Utilization on a contractual basis for right-of-way clearing; Hire North: history, assessment of success, main problems, success in placing competent trainees Training program, average length of employment; request that Bergasse provide figures on employment status of Hire North trainees

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XXXVII	4785	May 13	YK	Dau	CAGPL	Construction workers training program for those workers coming from the south
41	5373-79	May 20		Bayly	COPE/ITC	Hiring northern residents on full-time basis
42	5385	May 21		Marshall	CAGPL	Trans-Canada Pipeline, native staff
43	5588	May 22		Horte	CAGPL	Labour agreements
44	5747-48 6254-62	May 23 June 3		Bell Goudreau	NWT IB/MA EPB	Rejection of jobs on pipeline-related project Company policy for recruitment, James Bay
49	6576-82	June 5		Horte		Native Canadians - strong policy objective
C-1	17 47-48 56-57	Apr. 2	Aklavik	Furlong Ross Ross	Citizen Citizen	Native people not qualified for jobs Witness worked on the DEW Line and for Shell Canada Aklavik people working as jug hustlers on seismic crews

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C-I	61-63	Apr. 2	AK	Tardiff	Citizen	Employment of Eskimo people on the DEW Line
C-II	82	Apr. 3		Reynolds	Citizen	Native people promised employment, oil industry
	111-112			J. Sittichinli	Citizen	DEW Line construction
	120-121			Edwards	Citizen	Jobs on pipeline
C-4	287-292	May 28	May River	S. Dean	Citizen	Hire North/Work Arctic programs
	318-324			Workman	CAGPL	Applicant's training program
C-5	401-407	May 29		Graves	Citizen	In education system, Hay River area
	419-420			Berger		Provisions in the Guidelines for Northern Pipelines
	428-430			Workman	CAGPL	Applicant's training program
C-6	528-532	May 30		F. Norn	Citizen	Concern that Hay River people will be hired to work on the pipeline
	560-565			A. Norn	Citizen	Unable to find work as a heavy duty equipment operator
	568-573			Sabourine	Citizen	Native heavy duty equipment operators cannot get jobs
C-8	692-96	June 25	F.F.	D. Shay	Citizen	School, work experience of witness
C-10	875-81	June 27	F.N.	P. Andrew	Citizen	Witness worked as Settlement Secretary
	892-3			R. Clement	Citizen	Witness works for Settlement Council, Fort Norman
	917			D. Yakaleya	Citizen	Skills of native people; job opportunities
	955-61			Elwood	Foothills	Job opportunities; training programs
C-11	1002	July 8	F. McP	M. Vittrewka	Citizen	Concern that no jobs will be available for native people
C-12	1093-97	July 9		J. Itsi	Citizen	Lack of jobs; competition with people from South
	1112-19			R. Koe	Citizen	Witness' experiences with Shell; tokenism
C-13	1171-72	July 10		M. Snowshoe	Citizen	DEW line; after completion workers laid off
	1196			W. McDonald	Citizen	Native people are self-employed - Hunting trapping fishing
C-14	1285	July 11	O.C.	P. Lord	Citizen	Jobs for people in Old Crow
C-15	1434-5	July 12		A. Peters	Citizen	Native people, construction jobs on Old Crow airport; no permanent positions
C-16	1555	July 13		C. Abel	Citizen	Concern that most people will come from the south
	1568			R. Charlie	Citizen	People in Old Crow unemployed, depend upon the land
	1608-9			B. Sharpe	Citizen	Jobs for native people at Anvil Mines, Ross River
	1630-31			A. Abel	Citizen	People in Old Crow should be given jobs
	1641-42	July 13		P. Lord		Short-term employment
C-17	1666-69	July 16	F.L.	N. Deneron	Citizen	Painted Mountain Pipeline; jobs were promised
	1674			E. Diamond-C	Citizen	Qualifications needed to work
	1679-80			W. Sassie	Citizen	Few natives hired on projects in the north
	1686			F. Bertrand	Citizen	Seismic crews do not usually hire native people
	1696			H. Deneron		Pipeline will create jobs; wish to remain as hunters, trappers
	1743	July 17		F. Christian	Citizen	Wage economy, not only source of income
56	7854-5	Aug. 18	YK	Horte	CAGPL	Northern manpower; greater availability of work
	7906			Blair	Foothills	Foothills hiring and training programs
58	8152-53	Aug. 20		Blair	Foothills	Hire northerns in supervisory positions
	8243-46			Blair		Training programs
51	6812-14	Aug. 11	WI	Hemstock	CAGPL	More native peoples located along the mainline and interior routes than along Fairbanks and Fort Yukon corridors; CAGPL training programs; construction, operation and maintenance employment; exploration employment
53	7072-73	Aug. 13		Trusty	CAGPL	Possible refusal of pipeline jobs
	7120-30			Trusty		Participation in pipeline; economic goals
	7180-00			Joe	CYI	Unsuitability of mining and government jobs
	7226-30			Sprecker	CYI	Comparative duration of work on Alyeska
C-20	1924-25	Aug. 7		N. Kakfwi	Citizen	Experience with government in north predicts natives will not get pipeline jobs
	1966-89			A. Tobac	Citizen	Natives unable to compete in job market

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C-21	2159-64	Aug. 9	NW	P. Tourangeau	Citizen	Employment practices of Imperial Oil
66	9808-14	Sept.22	YK	Kosten	Foothills	Training programs; experience in clearing & grading; need for highly skilled & experienced workers for safety reasons
72	1070?-11	Oct. 15		Bayly Longlitz	COPF/ITC MVPI	Resource Management officers; native training courses; on-the-job training programs; experience in forestry and resource fields
76	11234-40	Oct. 21		Parker Weeden	CARC CARC	Relaxation of shop regulations, qualifications in order to hire natives, re: Alyeska
95	14366	Dec. 3		Hemstock	CAGPL	Hunting and trapping regulations apply to all all those employed and housed, construction camps
C-24	2401	Aug. 23	TL	T. Kushia	Citizen	Summer temporary jobs re: tourist camps, summer construction jobs
C-25	2486	Sept. 8	FS	Dixon	NWT CC	Type, length of employment offered to natives
C-30	2891-92 2917-19	Oct. 6	PP	Osing Mirosh Ellwood McConnell	Citizen Foothills Foothills Citizen	Mines, private construction, pipeline construction Measures to reduce training program turnover rate; on-site construction conditions
C-31	2991 2995 2999-3004	Oct. 7	FR	Bosley M. Beaulieu Morin	Citizen Citizen Citizen	Employment at Pine Point Discrimination at mines, towns Pine Point - housing, commuting; training programs for natives - qualifications, education
C-32	3036-38 3041-49 3060 3091-92	Oct. 8		Orbell Slavic McConnell McConnell	Citizen Citizen Citizen Citizen	Mine at Fort Resolution; local labour given menial tasks, not taught trade; Slave River Sawmill, native employment only Native frustration re: employment at Syncrude Tar Sands development training program; local hiring Fort Resolution employment at Pine Point, in commercial fishing, construction Discrimination, racial and economic
C-33	3103 3105-06 3111 3161 3171 3177-79 3185-86 3187-88	Oct. 9	FS	Evans Evans Carter Mercredi Stevenson Berger Carter Mirosh Laviolette Berger Applewhite	Citizen Citizen CAGPL Citizen Citizen Foothills Citizen Citizen Citizen	Hiring of northerners, sub-contracts to northern contractors Only northerners hired re: management, operation and maintenance of pipeline Northerners re: construction, operation, maintenance jobs Lack of employment, therefore welfare Hiring of northerners, training Northern employment on pipeline; definition of "northerner"; Nortran training program; Foothills' policy of hiring natives Union control; difficulty of northerners getting jobs re: Hiring Halls in South Native employed on Pine Point railroad, orientation to work ethic
C-34	3369	Oct. 16	YK	Pollock	Citizen	Local labour involvement, experience before papers
C-35	3399-401	Oct. 22	LI	Wheeler	Citizen	Impact of short-term high wage employment on young male natives re: withdrawal from land based economy; family ties
C-36	3448 3457 3463 3502-03 3517-19 3544 3554-55 3357-58	Jan. 28 Jan. 29	In.	Alonik Raddi Hodges Burrell Mainland Workman Binder Mainland	Citizen Citizen Citizen Citizen GPC-D CAGPL Citizen GPC-D	Interaction jobs/living off land Pipeline employment - unions At Coppermine for Gulf Oil Northern labour pool - training in Nortran, Hire North programs Potential expansion of Nortran program, native input re: working hours Hire of natives vs. northerners Rigidity of work period scheduling; native adaptation to wage employment Hiring, training practices of GPC-D

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C-37	3604-06	Feb.10	IN	Berger Burrell Workman	Foothills CAGPL	Guarantee of training, employment of northerners by applicants
C-38	3660-61	Feb.15		Albert Mirosh	Citizen Foothills	Employment for natives lacking Grade 10 education
C-39	3704-05	Feb.18		Robertson	Citizen	Opportunity of northerners to work in development and to move families to Inuvik
	3717			Hill	Citizen	Northerners employed during planning, construction and operation
	3724-25			Hill		Northerners employed by resident northern business
113	17156	Jan.21		Hobart	GPC-D	Large number of young natives on job market due to high birth rate.
	17169-76			Hobart		Data, Delta natives in Hydro-carbon exploration '71-'75; incomes earned, Delta natives; Coppermine case; percentage fishing, trapping
	17180-85			Hobart		Survey of native school children's employment interests, occupational aspirations; Delta area; number of Delta workers dependent on oil/gas exploration; effects of education on native aspiration
	17185-86			Hobart	GPC-D	Effects of no further oil/gas development
	17194			Hobart		Problems for native children after schooling, Delta area
	17201-02			Hobart		Wage employment gives a measure of independence compared to welfare dependence.
	17207-10			Hobart		Native workers preferred to whites due to being used to climate; alternative lifestyles for natives
	17215-28			Hobart		Oil/gas exploration, income generated, Delta area; trapping at same time; exploration work readily available; Gulf in Coppermine.
	17237-66			Hobart		Coppermine residents picking up liquor while working for Gulf; native dependency on wage economy, or welfare; degree of independence via wage economy; native workers preferred for northern work; native training programs, results; recommendations, effects on natives; family accommodation at gas plants in Delta; DEW line experience; employing single natives; separation from family; comparing communities for suitable employees; gas plant workers; Nortran program; native occupational aspirations
	17267-75			Hobart	GPC-D	Coppermine workers in Gulf exploration, problems; study methods
115	17578-80	Jan.23		Stamberg	GPC-D-G	Parsons Lake gas field, employment opportunities in maintenance
116	17736-39	Jan.24		Motyka Koe	Citizen Citizen	Career opportunities through Nortran for natives
117	17824-30	Jan.26		Sider	GPC-D-G	Resulting from development, training programs
	17840			Bell Sider	NWT LB/MA	Permanent employment opportunities, seasonal employment
	17853-54			Berger Sider		Southerners replaced by northerners, positions at Swimming Point
	17859-70			Sider Tod Wopnford	GPC-D-I GPC-D-S	Natives employed through NORTRAN; natives at Norman Wells; native support of supervisors' seminars

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117	17871-72	Jan. 26	IN	Bell Sider Berger	NWT IB/MA GPC-D-G	Article five, International Labour Organization; programs to employ native people
	17873			Berger		Natives employed by Gulf, Shell and Imperial; compared to whites, length of employment, job categories
	17889			Bayly Wopnford	COPE/ITC GPC-D-S	Goal of natives to seek permanent employment
	17897-98			Bayly Wopnford		Native interest in seasonal employment
	17906			Berger Bayly		Government employment of natives, unsuccessful
118	17946-50	Jan.27		Goudge Sider Tod Wopnford	MVPI GPC-D-G GPC-D-I GPC-D-S	Through Nortran, percentage working in Delta
	17962-65			Sider		Preferential treatment towards native northerners by supervisors
	17986-87			Sider		Preferred employment to northerners, selection process
	17993-95			Bell Czaja Horsfield Motyka	NWT IB/MA GPC-D-S GPC-D-I GPC-D-G	Hiring of local natives, stabilization of community, benefits
	18038-39			Horsfield		Native employment, goals of government and industry or company
	18070-72			Motyka Horsfield Czaja		Preferred employment to northerners
	18077-79			Goudge Horsfield Motyka Czaja		Opportunity for wage employment, narrowing of options
123	18851-58	Feb. 12		Yates Elkin	MVPI MVPI	Preferential employment policy for native northerners; programs - improvement of traditional, renewable resource based economy
146	22255-60	Apr.27	YK	McCullum	NWT IB/MA	Number of native people employed at James Bay; effects of employment on major projects such as hydro-electric development
	22276-77			Jones	NWT IB/MA	Dependence on Federal government job creation programs
147	22409-410	Apr.28		Richardson	NWT IB/MA	Integration of wage employment with subsistence living, Cree, 1950's, regarded also as cheap labor for white industries in southern Cree grounds
	22430-36			Richardson		James Bay, opportunities for native employment, employment willingness
	22470-72			Jones		B.C., native fishermen accounting for 50% total fishing population; employment in fish cannery, alleviating unemployment
	22504			Nahanni	NWT IB/MA	Approximately 1,075 men engaged in hunting, trapping, Dene figures
148	22635-36	Apr.29		Rushforth	NWT IB/MA	Men from Great Bear Lake not viewing wage labour as a permanent alternative to traditional life
150	22916-19	May 4		Simpson	NWT IB/MA	Hiring of native people, James Bay; possible construction training program
151	23089	May 5		McClellan	CYI	Alaska highway, short-term jobs
	23104-05			McClellan		Jobs on Alaska highway construction, providing services
	23198-200			Smith	CYI	Native people of the Yukon, hope for more than jobs
152	23255-60	May 6		Johns Jacquot	CYI CYI	Native employment opportunities (in Yukon), native definition of work
	23280-81			Jacquot		Associated with eight-inch line from Haines to Fairbanks

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152	23337	May 6	YK	Notti	CYI	Ineffectiveness of laws intended to guarantee hire of Alaskan residents
	23361-71			Notti		Regional corporations in Alaska
153	23409	May 7		Sharp	CYI	Federal government and Anvil Mine signed agreement re native employment
	23418			Sharp		Throughout construction period approximately 15 natives employed at Anvil Mine site
	23427-29			Sharp		Natives hired as prospectors, assistant prospectors and lime cutters, reliance on natives for their bush sense, Tintina Fault area
	23447-49			Sharp		Anvil Mine Agreement, 1967, number of natives to be employed
	23481-87			Sharp		Anvil Mine Agreement, little effect on native employment
C-40	3843-44	Feb.23	AK	F. Elanik	Citizen	Potential problems between native and union people
	3867			Greenland	Citizen	Experience needed for jobs; lack of jobs for natives
C-47	4553-54	Mar.13	ARR	N. Norbert	Citizen	Discrimination against natives who have certificate, worthlessness of certificate
154	23574	June29	YK	Watkins	NWT IB/MA	Increased potential wage employment; training programs
	23585			Watkins		Mining industry, failure to employ native labour; seen as substitute for welfare
155	23673-75			Watkins		Rates of unemployment; numbers involved, hunting, trapping, fishing
	23705-08			Watkins	NWT IB/MA	Comment re: Dene for full employment
155-A	23850-52	June30		Jelliss	NWT IB/MA	Estimated number of native workers employed on Pointed Mountain gas project, maximum 12% of total, 90% of jobs were in unskilled category
C-50	5033-34	May 11	VAN	Hodgkinson	Citizen	Natives know who is best applicant for a job
	5060-61			Potts	Citizen	Told of sure employment for natives, though not so in Alberta Tar Sands, James Bay; no security in three years employment for pipeline
C-52	5239-40	May 13	CAL	Poyen	Citizen	Must be options open; provision of transportation
	5269-70			Chief Snow	Citizen	No job opportunities for Stoney people, dam on Kootenay Plains
	5329-30			B. Sider	Citizen	Statistics, employment, petroleum industry
C-53	5434-35	May 14		Getty	Citizen	Stoney Indians asked for training, but not offered by Alberta government or Calgary Power
	5497-99			Tyler	Citizen	More is needed than short term employment
C-54	5676-79	May 17	EDM	Laboucane	Citizen	Natives desire for training, responsible employment in industry, decision making authority
	5587-89			McKenzie	Citizen	Top priority should be given to native labor, training programs
C-55	5762	May 18		J. Paschen	Citizen	Two natives employed at Norman Wells oil plant
	5778			J. Barry	Citizen	Need for time frame so training programs can begin; need for assurance of work availability
	5802-03			R. Dion	Citizen	Need for permanent jobs, NWT and Yukon
	5811-22			M. Venne	Citizen	Native outreach program, job recruitment, counselling
	5870-71			L. Mulhall	Citizen	No job guarantees, Dene and Inuit
	5899			H. Cardinal	Citizen	Employment, Athabasca Tar Sands; proposed pilot project, Northern Alberta, Treaty Indian Training Corporation
C-60	6839	May 28	TOR	D. Elliott	Citizen	Questionable advantages, increased opportunities
158	24155-60	July 6	YK	Hobart	CAGPL	Increase in standard of living with wage employment; return to trapping, decline

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162	24936-42	July 13	YK	Hollands	CAGPL	Use of Canada Manpower as part of Manpower Delivery System
	25069			Trusty	CAGPL	Hope to locate as near to home community as possible
	25091-93			Trusty		Effects of preferential hiring; encouragement of savings programs
163	25100-43	July 14		Hobart		Switch to wage jobs from traditional activities; aversive effects if opportunities do not materialize
	25135-40			Hobart		Sites of industrial employment; varying interest among Inuit, Dene; preference for nearby permanent vs. seasonal jobs
	25146-53			Hobart		Needed to salvage self-concepts of native people
	25164-66			Hobart		Job opportunities; benefits of portion of secondary enterprises
	25261-65			Hobart		Jobs with government; scarcity of people with necessary skills; incentive programs
164	25369-72	July 15		Hobart	CAGPL	Traditional sector no longer viable, desire for wage employment; land skills, insurance for the future
	25456			Hobart		Gulf, native yard crew, swimming Point
166	25712-19	July 20		Ellwood	Foothills	Native people should be ensured long term employment beyond pipeline construction
	25839-43			Usher	COPE/ITC	Effects of short term wage employment
167	25907	July 21		Usher		Administrative centers, lowest levels
	25931-32			Brody	COPE/ITC	Long term goal, balanced occupational structure
168	26078-80	July 22		Brody		Rankin Inlet, nickel mine, impact of closure; problems with maintenance of traditional activities
	26137-41			Brody		Shift from possessors of land to wage labourers
	26148-60			Brody		Hiring by Pan Arctic Oil, Nanisivik Mine
	26167			Brody		Jobs with Pan Arctic Oil for Pond Inlet residents, with Nanisivik mine for those of Arctic Bay
	26182-85			Brody		Heavy use of alcohol by those recently involved in wage labour
	26201-02			Brody		Clyde River, possible recruiting for Pan Arctic Oil; mistakes in unemployment figures, numbers available for work in Pond Inlet
169	26338-39	July 23		Ruttan	NWT IB/MA	Experience of where a decision to work for whites was decided by whole community
	26341-45			Ruttan		How young people spend their wages in the north
C-68	7827-28	July 16	FP	A. Canadien	Citizen	Short-term jobs on the Mackenzie Highway
	7834			F. Elleze	Citizen	No meaningful jobs being offered
	7843			H. Geddes Horte	Citizen CAGPL	Problems with white prejudice; concern that native people have opportunity for long term jobs; training, hope that natives will move into senior positions
C-72	8096-97	Aug. 11	PE	A. Lisk	Citizen	Local people only hired to make it look good; danger of firearms when whites and natives mix after working together; fear that young people will be hired and destroyed by white people
C-73	8183	Aug. 12	Y.M.	J. Nitsiz _a	Citizen	Money from employment will not last long
	8221-23			F. Zoe	Citizen	People hired from outside North; good jobs will go to southerners, manual labour to northerners
C-74	8280	Aug. 13	RL	J. Mantla	Citizen	Only white men get jobs
	8289			C. Chocolate	Citizen	No long term work for natives
C-77	8419	Aug. 26	DPT	F. Erasmus	Citizen	Jobs just to keep people under control
170	26370-73	Aug 16	YK	Burrell	Foothills	Preferential treatment for northerners, proximity of job site to home communities

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170	26396-400	Aug. 16	YK	MacLeod	Foothills	Allotment to operations and maintenance jobs; varying preferences for jobs in camps or near communities
	26421-30			Ellwood	Foothills	Foothills to try instigating negotiations for a Project Agreement, provisions for northern natives, establish hiring procedures
	26484-86			MacLeod		Native northerners leaving the north, some returning
171	26516-18	Aug. 17		Burrell	Foothills	Policy, preference for northerners over southerners given they have same qualifications
	26522-31			Burrell Ellwood	Foothills	Hiring of northerners, definition of northerner, suggestion of quota system for hiring, measurement of success of preferential hiring
172	26851-52	Aug. 18		Kyllo	COPE/ITC	Employment opportunities in industry are low, except for those with relatively high education
	26908-12	Aug. 19		Kyllo		Pipeline, wage economy effect on employment of native people; references to Hobart's evidence, disagreement that whites and natives would work as equals
176	27381-85	Aug. 24		Button	COP/ITC	Occupational preferences of young
	27968-70			Robinson	COPE/ITC	Effect of cultural background on occupational aspirations of students
180	27864-74	Sept. 7		Berger St. Eloi	MVPI	Employment and training preferences, leniency on the job
	27890-96			Nessel	MVPI	Pulp mill construction in northern Saskatchewan employed quota of 6% native people on payroll, not successful, problems with quota system
	27897-908			Nessel Hodson	MVPI	Priority placement accorded to northern native people not accepted; degree of experience critical; bona fide local resident employed on Syncrude project; Guidelines for Northern Pipelines, Number Two
	27950-58			Nessel		No preference for natives once they are hired; Hobart's evidence on Gulf's project in Coppermine, priority to natives; accommodating natives' lifestyle in Gulf Oil project, adjusting schedules
181	28044-49	Sept. 8		McCambly	MVPI	Union jobs, preference; training; skill assessment; permanent positions, counselling; against quotas
	28059-62			McCambly	MVPI	Pay discrimination, training, preferential hiring, trained in operation of unions
	28105-07			McCambly		Question of hiring quotas; language problem with integrated work crews, against segregation
	28213-18			McRae	MVPI	Special working schedules to accommodate lifestyles, did not work with International Nickel Company, successful with Gordon Mines; work in cycles so do not miss fishing and hunting seasons; problems of adapting to wage economy
	28224-26			McRae		Unofficial counselling and easy discipline at work, try to understand adjustment problems
182	28372	Sept. 9		Clarke	COPE/ITC	Eligibility for federal housing benefits
	28390-91			Clarke		Not many natives currently employed in petroleum industry; not many skilled natives
183	28413-14	Sept. 10		Clarke		Figures on those working in petroleum industry
184	28460-62	Sept. 14		Kehoe	COPE/ITC	Removal from community to work will destroy many social relationships; not everyone will benefit, as people without marketable skills
197	30996-97	Oct. 13		Bergasse	MVPI	Success of natives from Hire North employed by contractors
198	31166-70	Oct. 14		Gates	MVPI	Proposed departmental task force on manpower services to native people; Native Employment Division within department, proposed National Native Employment Advisory Council; Local Initiative Program (LIP) and Local Employment Assistance Program (LEAP)
	31202-26			Witty	MVPI	Responsibilities of Employment Division, Department of Economic Development, NWT government; employment counselling services available in communities

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189A	29566	Sept. 22	YK	Mrs. Worl	COPE	Problems of working too many weeks at one time, advocated cluster hire concept
192	29922-23	Oct. 4		Baring-Gould	MVPI	Valdez natives employed by Chugach Native Corporation
197	30996-97	Oct.13		Bergasse	MVPI	Success of natives from Hire North employed by contractors
198	31166-70	Oct.14		Gates	MVPI	Proposed departmental task force on manpower services to native people; Native Employment Division within department, proposed National Native Employment Advisory Council; Local Initiative Program (LIP) and Local Employment Assistance Program (LEAP)
	31202-06			Witty	MVPI	Responsibilities of Employment Division, Department of Economic Development, NWT Government; employment counselling services available in communities
	31250-57			Berger Witty		Unemployed in NWT are primarily native people; development has not altered situation, number of natives employed on Pointed Mountain project and Pine Point is not significant
	31304-09			Forth	MVPI	Northern Careers program of Public Service Commission, creation of employment opportunities for Yukon and NWT native people
	31313-15			Forth		Native employment specialists, how that position is reached, National Native Employment Advisory Council
	31340-41			Sterling	MVPI	Quota of native employees at Nanisivik Mine, "positive discrimination"
	31374-75A			Sterling Forth		Target objective for numbers of native people employed in Federal government in North; federal positions presently held by native people
	31250-57			Berger Witty	MVPI	Unemployed in NWT are primarily native people; development has not altered situation, number of natives employed on Pointed Mountain project and Pine Point is not significant
	31304-09			Forth	MVPI	Northern Careers program of Public Service Commission, creation of employment opportunities for Yukon and NWT native people
	31313-15			Forth		Native employment specialists, how that position is reached; National Native Employment Advisory Council
	31340-41			Sterling	MVPI	Quota of native employees at Nanisivik Mine, "position discrimination"
	31374-75A			Sterling Forth		Target objective for numbers of native peoples employed in federal government in North; federal positions presently held by native people
198A	31412-15	Oct.14		Christie	MVPI	Alyeska Pipeline, priority placement for native people; native recruiting officers; payment of doby dues
	31424-27			Christie		TAPS project, stagine centres in Anchorage and Fairbanks to orientate Alaskan natives; operating and procedural problems
	31430-33			Nicholson	MVPI	Problem areas in training related to Alaskan native
	31434-46			Schulz	MVPI	History and purpose of Alyeska Local 302 On-the-job Training Program; employment opportunities for indigenous Alaskan natives
	31449			Nicholson		Problems of Alaskan native adjusting to camp life
			31452-53	Christie		Problems of reaching rural Alaskan natives for work on pipeline within 48 hour delivery rule
201	31716-21	Nov.16		Genest	CAGPL	Enumeration of pipeline skilled jobs that would be of continuing use to natives
202	31941-43	Nov.17		Bayly	COPE/ITC	Manpower delivery agency, union membership, counselling work schedules
204	32258-59	Nov.19		Hardy	NWT IB/MA	Priority in training and jobs on pipeline; renewable resource area not only area where native people can succeed; success at Slave River Sawmill

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204	32268-70	Nov. 19	YK	Ballem	GPC-D	Oil industry pioneered methods of increasing skills of native people; availability of jobs to northerners; equality in wages, allowances between northern employees and others; on-the-job training programs; off-the-job apprenticeship courses; travel subsidies when jobs are away from community; northerners phased into southerners positions as they become capable; controlled movement of southerners into communities	
	32288			Ballem		Natives familiar with wage economy, procedures; 800 natives employed by oil industry	
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C-71	8016	Aug.10	RE	C. Football	Citizen	Does not expect natives to be employed on pipeline; southerners usually take jobs from northerners	
171	26516-18	Aug.17	YK	Burrell	Foothills	Policy, preference for northerners over southerners given the same qualifications	
	26522-31			Burrell Ellwood	Foothills	Hiring of northerners, definition of northerner, suggestion of quota system for hiring, measurement of success of preferential hiring	
178	27606-07	Aug.26		Pritchard	MVPI	Migration to labour markets, increase in wage labour, increase in available labour force	
	27616-24			Pritchard Merrett	MVPI	Exposure to wage economy, duration, increase in available labour force, incentives, disenchantment	
	27670-71			Runge	MVPI	Policies being developed to ensure local hire, degree natives will adapt to wage economy	
180	27841-48	Sept.7		Hodson	MVPI	Training programs for northerners to ensure involvement; on-the-job training for natives at Mountain River and Pointed Mountain; training natives by NORTRAN; development of northern information program, inventory of available northern workers; employment opportunities in industrial sector	
	27856-57			St. Eloi	MVPI	Employment and training preference to northerners; definition of northern resident	
	27873-78			Hodson Nessel	MVPI	Quota of northerners hired for pipeline construction discouraged; numbers of resident northerners available for work; criteria for eligibility of natives to work	
	27879-89			Hodson Berger Nessel St. Eloi		Preferential hiring of northern residents yet will not accept quote system, no preferential treatment after they are hired; training programs for northern residents; definition of northern resident	
	27918-21			St. Eloi Dyck Marriott	MVPI MVPI MVPI	Definition of northerner; experience on the job	
	27924-32			Hodson Nessel Whiteford St. Eloi	MVPI MVPI MVPI	Definition of northerner; residency requirement	
	28031-35			St. Eloi Nessel		Special treatment towards natives; not feasible to schedule construction to coincide with hunting and fishing; no-preference policy on hiring, training to upgrade skills	
181	28042-43	Sept.8		McCambly	MVPI	Job placement priority to local residents	
	28064-67			McCambly		Definition of northerner, problems involved	
	28071-73			McCambly		Defining limits of local hire, channelling of locals into permanent jobs, definition of local resident	
	28143-45			Reimer	MVPI	Preferential hiring just good business sense, need assurance of this promise	
	28161-63			Reimer Bayly	COPE/ITC	People who are not bona fide residents should not get jobs, importance and difficulties in defining	
	28219-20			McRae	MVPI	Manitoba, hydro project, preferential hiring on three tier system, northerner, Manitoba resident, out of province, similar program in Fort McMurray	
182	28379-80	Sept. 9		Clarke	COPE/ITC	Availability of permanent jobs to northerners; danger of underestimating demand for jobs	
184	28535-37	Sept. 14		Scott Atcheson	MVPI COPE/ITC	Dilemma in keeping people in communities and providing them with extensive training for skilled work; quotas	

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186	28822-26	Sept. 16	YK	Basham	MVPI	Selling up of Manpower Delivery System for northern residents; information bank, training, instruction on unions; funnelling northerner into permanent jobs
	28832			Basham		Need for legislation to guarantee preferential union employment
	28838-41			Basham		Unions will dictate manpower delivery terms
188	29121	Sept. 21		Searle	MVPI	Construction must ensure employment for northerners
198	31178-92	Oct.14		Sterling	MVPI	NWT Government responsible for training and employing northerners; on-the-job training program for native people; Summer Job Creation Program for native students; native people in mining industry, petroleum industry; Lampey's study "Native People's Perceptions of Factors Associated with Job Acceptance and Retention"; Gemini North "Alaska Native Participation in the Trans-Alaska Pipeline Project," "Trade Unions in Canada and the Northern Resident"
	31211-22			Witty	MVPI	Apprenticeship training program of territorial government, percentage of northerners; special employment programs, Gulf-Coppermine rotational employment scheme; labour pools for community use in Aklavik, Fort McPherson, Fort Franklin, Fort Norman, Fort Providence, Rae-Edzo, Cambridge Bay, Rankin Inlet, Eskimo Point; inventory of northern labour force, TERIS; Community Employment Strategy Program
	31243-49			Witty		Definition of northern resident, application in Manpower Delivery System
	31353-59			Witty Forth	MVPI	Turnover rate of northerners in territorial government; unsuccessful attraction into government positions
31388				Sterling	MVPI	Employment of native people does not include white northern residents
200	31624-27	Nov.15		Scott	MVPI	Manpower delivery and employment service for people living in NWT, Yukon, definition of "permanent northern resident", "a northern resident"
	31656-62			Genest	CAGPL	Consequences of delay or postponement of pipeline development
	31685-87			Genest		Manpower delivery system should be established within federal and territorial governments

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XXI	2523	Mar.19	YK	Mercredi	Citizen	Token natives on pipeline; native vs. "imported" labour force
XXX	3744-45	Apr.15		Holmberg	CAGPL	Welding, automatic/manual
XXXII	4039	Apr.18		Purcell	CAGPL	Manned and unmanned compressor stations
	4153-57			Holmberg		Problem of obtaining manual welders
41	5373-84	May 20		Bayly	COPE/ITC	Hiring northern residents on full-time basis
C-4	217-220	May 28	Hay River	Williams	CAGPL	Employment of Hay River people
C-17	1721-4	July 17	F.L.	E.Logan	W.C.Transmission	Repair work to be done by Westcoast Transmission
	1752-6			P.Nahanni	Citizen	Fort Liard people have had to leave to get jobs
	1761-63			Father Mary	Citizen	Hiring for Pointed Mountain Pipeline
51	6811-14	Aug.11	WH	Hemstock	CAGPL	Construction, operation and maintenance job opportunities; available labour force; Fairbanks and Fort Yukon corridors due to longer length and eventual duration total work force required is greater; work force required for the Interior and Mainline route is about equal
53	7069-73	Aug.13		Trusty	CAGPL	Construction force required
	7120-39			Trusty		Native employment
	7217-20			Sprecker	CAGPL	Ratio of southern, native and northern workers
	7226-39			Sprecker		Alyeska average length of employment - Native , non-native

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C-20	1923-24 1997-98	Aug. 7	FGH	N. Kakfwi J. Boniface	Citizen Citizen	Overcrowded south will send workers for pipeline Unable to work on pipeline
C-21	2180-81	Aug. 9	NW	R. Sinotte	Citizen	Employment of northerners; contracts for small businesses
61	8603-04	Sept.15	YK	H.L. Stevens	USWA	Short term employment generated by pipeline construction, slump after construction; need for a longer construction period
63	9045-46	Sept.17		Mirosh	Foothills	Phaseout of men at compressors; forces needed for operations & maintenance
64	9227-28	Sept.18		Hushion	Foothills	Number of men employed to operate automatic welding machine
65	9528-29	Sept.19		Davison	Foothills	Environmentalists would be given heave predictions in determining southernmost point of chilling
	9618-23			Kosten	Foothills	Distribution of skilled & unskilled workers; availability of workers; turnover rates
66	9651-74	Sept.22		Kosten		Peak manpower requirements; support operation requirements
	9678-79			Bauer	Foothills	Advance clearing reduces manpower peak & congestion problems
	9747-52			Mirosh	Foothills	Numbers required in clearing & grading
	9800-14			Kosten	Foothills	Need & incentives for skilled workers
67	9887	Sept. 23		Kosten Bauer		Wage Negotiations
	9902-07			Bauer		Wage incentives; overtime wages; payment of tie-in workers; swing shift system
	9964-65			Mirosh		Greater employment offered by summer work programs
68	10051	Sept. 24		Hushion		Local jobs available in administrative centres
	10116-18			Hushion		Gradual unmanning of meter and compressor stations
76	11228-40	Oct. 21		Weeden Parker	CARC CARC	Alyeska, summer and winter construction force; qualifications of work force
99	15101	Dec. 9		Scott	MVPI	Shortage of archaeologists in Canada
C-24	2419-20	Aug. 23	TL	Hushion	Foothills	Employment opportunities during construction and in operation and maintenance of the line
	2424			Hushion		Permanent jobs available re: operation and maintenance
	2440-43		NB	Hushion Rowe	CAGPL	Employment opportunities, training projects; permanent jobs
	2448-52			Hushion Rowe		Employment opportunities, training programs, education needs
C-25	2527-33	Sept. 8	FS	Fizer Ellwood Workman	Citizen Foothills CAGPL	Nortran Training Program, construction training program, local opportunities for employment
C-26	2618-19	Sept. 9		Ellwood		Fort Simpson re: district operations office, full-time employment
C-27	2721-25	Sept. 10		Fizer Workman Ellwood	CAGPL	Positions - filled by Northerners; Union Hiring Halls; percentage quota re: hiring; discrimination re: race; training program; second chances to employees
C-28	2799	Sept. 10	Wr	G. Hardisty	Citizen	Concern that only educated will work on pipeline; lack of work after completion
	2802			G. Hardisty		Benefit to Dene people re: money; impact of money re: liquor
	2804			William	Citizen	Fear of lack of work after construction completed
C-33	3118	Oct. 9	FS	Mirosh	Foothills	Operating and maintenance phase re: technical, trained through Nortram
	3120-21			Carter	CAGPL	Employment during and after initial construction; processing plants, feeder lines, seismic work, drilling, etc.
	3150			Klengenberg	Citizen	Families moved when men transferred; responsibility of company
C-35	3389	Oct. 22	LI	Carter		Construction, operation and maintenance phases - manpower requirements
	3395			Berger		CAGPL, Foothills manpower requirements
	3415-18			Carter		Nortran program - trainee employment policy
	3431-33			Carter Littledale	Foothills	The CAGPL, Foothills policies re: hire, training of women

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C-36	3518	Jan. 29	I N	Mainland	GPC-D	Potential expansion of Nortran program
C-37	3574	Feb. 10		Benson	GPC-D	Manpower requirements at delta gas plants
	3575-76			Workman	CAGPL	CAGPL manpower requirements in the north
C-38	3625-26	Feb. 12		Burrell	Foothills	Short- and long-term employment opportunities
	3627			Rowe	CAGPL	Job opportunities during construction, operation phases
	3662-65	Feb. 15		Rowe Mirosh Berger	Foothills	Employment on pipeline, union considerations
C-39	3710	Feb. 18		Robertson	Citizen	Upgrading of vagrancy laws
	3721-22			Hill	Citizen	Minimum support staff at pipeline camps; potential for social and economic disruptions; inspectors, supervisors, administrators restricted
117	17847-50	Jan. 26		Berger Sider	GPC-D-G	Mainland's letter to Hancock, jobs on seismic crews and oil rigs
148	22714-16	Apr. 29	YK	Asch	NWT IB/MA	Reports, Gemini North, state that pipeline will solve unemployment and alleviate other problems
	22726-30			Asch		Argument against Van Ginkle report
C-47	4565	Mar. 13	ARR	N. Norbert Berger	Citizen	Numbers to be employed during construction
159	24324-26-A	July 7	YK	Boorkman	CAGPL	Alaska, native villagers; union requirement that prospective employees register at hiring halls, Fairbanks
	24515-17			Boorkman		Question re students dropping out of school to work on Alyeska pipeline
159-A	24610-12			Trusty	CAGPL	Valdez, number employed, comparison with those to be employed at Hay River
161	24770-82	July 12		Trusty		Estimates, number of man-years of employment
	24838-43			Williams	CAGPL	Length of the average job, different categories; possible movement from area to area
162	24985-5008	July 13		Trusty		Use of multiplier that can estimate number of secondary jobs generated by pipeline employment
163	25164-66	July 14		Hobart	CAGPL	Jobs in primary sector, factor in creation of jobs, secondary sector
164	25464-69	July 15		Trusty		Number of workers involved, various segments of pipeline construction
	25476-79			Trusty		Additional barge personnel
165	25514	July 19		Ellwood	Foothills	Considering employment rotation and labour pool systems to avoid understaffing of community services
	25605			Ellwood Reesor	NWT/AM	Intention to discourage "speculative transients"
C-73	8224	Aug. 12	LLM	M.A. Jeremichica	Citizen	Impact of Southerner workers on young native women
170	26370	Aug. 16	YK	Burrell	Foothills	Preferential treatment for northerners, proximity of job site to home community
175	27234-37	Aug. 23		MacLeod	NWT/CC	Will drain labour force from business because benefits to employees re high wages and unlimited overtime
182	28253	Sept. 9		Forth	MHA/NWT	Preference to local hires in construction phase jobs; blue ticketing of southern employees; orientation programme for local hires
	28325-28			Forth		Opportunities for employment, with limitations; construction phase is completed
189A	29509-10	Sept. 22		R. Worl	COPE	Manpower drain to pipeline corridor construction in Alaska
	29527-28			Berger Buchholdt	COPE	Voting role of pipeline population

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190	29697	Sept. 23	YK	Berger		Number of workers needed to build pipeline, based on Alyeska projections
198	31235-38	Oct.14		Witty	MVPI	Response to hydrocarbon employment on rotational basis by native people, experience at Coppermine, Nanisivik; plans to enable natives to gain jobs and hold them; use of TERIS system
200	31668	Nov.15		Genest	CAGPL	All hiring of non-residents to be done in southern locations
201	31716-21-2	Nov.16		Genest		Enumeration of pipeline skilled jobs that would be of continuing use to natives
	31865			MacQuarrie	MHA/NWT	Screening of southern employees, preference to northerners, rest and recreation periods, company obligations
202	31913-14	Nov.17		Bayly	COPE/ITC	Operations and maintenance positions available to natives not compatible with hunting, fishing lifestyle

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C-4	224-228	May 28	Hay River	Neufeld	Citizen	Barge construction in Hay River in 1974
51	6812-14	Aug.11	WH	Hemstock	CAGPL	Economic development along corridors and routes; increased income and generation of business
53	7126-39	Aug.13		Trusty	CAGPL	Spin-off benefits in Valley and Yukon
63	9051-52	Sept.17	YK	Lazerte	Foothills	Local builders involvement in camp & compressor buildings
66	9672-73	Sept.22		Mirosh	Foothills	Workers at borrow sites, making weights, wharf sites
67	9903-07	Sept.23		Kosten	Foothills	Influx of workers - truck drivers, unskilled
68	10042	Sept.24		Hushion	Foothills	Employment for northerners in administrative work at division headquarters
	10064-65			Hushion		Number of positions in administration in Yellowknife and district offices; requirements for housing
86	12976-77	Nov. 13		Bouckhout Lawrence	Foothills Foothills	Northerners trained to run sewage treatment equipment
95	14425-27	Dec. 3		Banfield	CAGPL	Assumptions re: integrity of design, construction, management of employees, restrictions
	14522-23			Hemstock		Training programs; Alaskan experiences high turnover of employees
106	16170-72	Dec. 18		Lent	CARC	Truckers, aircraft operators re: decision-making powers; rapid turnover of personnel re: Alaska; fish and wildlife biologists, field personnel, surveillance personnel, briefings re: all personnel; termination of employees
C-25	2478	Sept. 8	FS	Ellwood	Foothills	Job creation at Fort Simpson re: Foothills project
	2485-87			Dixon	NWT CC	Construction of secondary development projects, local projects re: high wage standards
C-30	2900	Oct. 6	PP	Carter	CAGPL	Community labour loss to pipeline
	2912-19			Mirosh Ellwood Carter	Foothills Foothills	Native people in training programs, peak manpower requirements, permanent operating jobs
	2936			Mirosh		Peak manpower requirement
C-33	3109	Oct. 9	FS	Mirosh		Company staffed by northerners, training programs
	3123-24			Dean	Citizen	Employment for support services and supporting staff - extra doctors, dentists, teachers, shops
C-37	3581	Feb.10	In	Workman	CAGPL	Employment for northerners with pipeline service industries
157	24090-91	July 5	YK	Hobart	CAGPL	Substantial input into Delta family income
159	24465-70	July 7		Boorkman	CAGPL	Multiplier effect, Alyeska; in-migrants trying to find jobs
	24477-83			Boorkman		Alyeska, growth in services
	24598-608			Trusty	CAGPL	Use of multipliers, projections of jobs to be created
161	24778-85	July 12		Trusty		Indirect employment, gas field development, plant construction, exploration, transportation sector; estimates of man-years needed

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162	24985-91	July 13	YK	Trusty	CAGPL	Multiplier factor, creation of secondary jobs due to pipeline employment
163	25171-92	July 14		Trusty		Creation of jobs, result of demand for supplies, services
	25275-76			Hobart		Jobs in tertiary, quaternary sector; possible racial problems
165	25660-62	July 19	YK	Scott Burrell	MVPI Foothills	Spin-off creation of secondary jobs
C-71	8001	Aug. 10	RF	Charlo Berger	Citizen	Numbers needed to construct and maintain pipeline
170	26382-93	Aug. 16	YK	MacLeod	Foothills	Field development jobs; methods of projecting job creation
	26394-401			MacLeod		Factors involved, southerners remaining on long-term basis; projections, need for manpower from the south
171	26534-45	Aug 17		MacLeod		Estimation of number of jobs created, hydro carbon, government, construction, operations and maintenance; composition of labour force
	26549-52			MacLeod		Estimates of number of jobs created, emphasis on construction phase
177	27497-99	Aug 25		Wood	NWT/AM	Possibility of viable industry vs artificially induced, productive work, opportunities
179	27750-52	Aug 27		Runge	MVPI	Multiplier for induced jobs as result of increase in money; government jobs

EMPLOYMENT - WOMEN

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C-25	2532-33	Sept. 8	FS	Fizer Ellwood Workman	Citizen Foothills CAGPL	Company policy
C-35	3431-33	Oct. 22	LI	Littledale Carter	Foothills CAGPL	The CAGPL, Foothills policies re: hire, training of women
143	21669-70	Apr. 14	YK	Virtue	NORTRAN	Non-clerical positions, Nortran
159	24500-02	July 7		Trusty	CAGPL	Alyeska, married women; non-discrimination laws, quotas
170	26381-82	Aug 16		MacLeod	Foothills	Labour availability, participation rates.
182	28372	Sept 9		Clarke	COPE /ITC	Women as heads of households, to be eligible for federal housing benefits
197	30995 31020	Oct. 13		Bergasse Bergasse	MVPI	Employed in Hire North construction camps Sewing in garment plants; women employed in Alaska as camp attendants and cleaning personnel, fear that women will desert garment plants

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C-50	4906-07	May 11	VAN	Daly	Citizen	Need for less full consumption, legislate energy waste
	5967-69			Simmons	Citizen	Work by Van Hydes, 1910, predicting shortages, urging conservation of natural resources; delay pipeline construction
	5000-05			Antonides	Citizen	Extension of supplies through conservation, need for new energy policy, what it should include
	5046			Paine	Citizen	Need for conservation
C-52	5251	May 13	CAL	Father Gauthier	Citizen	Reduction needed in consumption
	5256			E. Reid	Citizen	Proposed reduction of rate of growth, consumption
	5333			H. Buckmaster	Citizen	Government policies, encouragement
	5345-46			P. Elder	Citizen	Government implementation of programs
	5396			C. Osborne	Citizen	Suggested rationing
C-53	5443	May 14		Mayer	Citizen	Rejection of the proposed pipeline would prompt conservation and development of alternate energy sources

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C-53	5459-60	May 14	CAL	Donovan	Citizen	Conserve Canadian energy for Canadians
C-54	5650	May 17	EDM	Kuhn	Citizen	Recommending conservation, alternate energy sources
C-55	5851-52	May 18		B. Hall-Beyer	Citizen	Resources, no development at this time
	5937-38			B. Farrell	Citizen	Need for national program
	5956			K. Vandergrift	Citizen	Study for Science Council of Canada by K.H. Knielman, waste elimination
	5999			L. Bujold	Citizen	Depletable resources
C-56	6034-35	May 19	REG	M. Schubert	Citizen	Need for new strategies, lower consumption levels
	6090			C. Stewart	Citizen	Government, introduction of necessary measures
	6097-99			E. Maginnes	Citizen	Use of waste energy, exhaust gases, compressor stations
C-57	6183-84	May 20	WIN	S. Kuehn	Citizen	Contributing to consumption rather than conservation; advocating change in energy policy
	6287			K. Emberly	Citizen	Should be concerned with conservation, not pipeline
C-58	6328-29	May 25	TOR	D. Duncan	Citizen	Conservation measures needed re natural gas
	6332-33			B. Massman	Citizen	Limited supplies of oil and gas; must conserve and not waste energy; alternative energy sources must be developed
	6337-41			F. Fairchild	Citizen	Artificiality of energy crisis, created by multi-national corporations to increase own profits
	6365-69			S. Casey	Citizen	National energy policy, conservation and renewable sources
C-59	6393-96	May 26	TOR	M. Hummel	Citizen	Less costly to reduce consumption
	6398-6402			A. Powis	Citizen	Government - industry, efforts to promote conservation, continued need for new supplies
	6428-29			G. Caughey	Citizen	Reduction in demand, continued shortfall of supply; speed limits
	6552-53			R. Lougheed	Citizen	Consumers Gas, programs to encourage less consumption; economic impact of changed energy use
	6590-91			G. Akla	Citizen	Need for industry support, measures; Federal Energy Conservation Campaign
	6606-11			C. Kalevar	Citizen	Throw-away society, use of non-renewable resources
C-60	6732	May 27		J. Hardy	Citizen	Canadians, responsibility to preserve resources
	6751-52			V. Horte	CAGPL	Less consumption will not eliminate need for new supplies
C-61	6845	May 28		D. Elliott	Citizen	Should be priority of government
C-62	6959-61	May 31	MTL	Genest	CAGPL	Despite conservation plans, there will still be a increase in energy demands
C-63	7019-27	June 1		Mountjoy	CAGPL	Must conserve on car usage
	7036-38			Ford	CAGPL	Conclusions of study by F. Knielman, "Energy Conservation"
	7085-87			Beauregard	CAGPL	Government should have an energy conservation policy, especially regarding big industries
	7180-84			Edwards	CAGPL	Conserving by eliminating waste
C-64	7228	June 3	OTT	Hatton	Citizen	F. Knielman's study, "Energy Conservation"
	7322-23			Harrison	Citizen	Insulation of homes; how to save on waste
	7350-54			Wilder	CAGPL	One can reduce rate of growth but not total consumption
C-65	7390	June 4		L. Newell	Citizen	Energy policy needed
	7447			J. Thompson	Citizen	Preserve non-renewable resources
C-66	7604	June 7	CH	D. Coffin	Citizen	PEI, dependence on oil, search for alternative sources, need to lessen consumption
C-67	7746	June 8	HAL	B. Hollands	CAGPL	Cannot reduce total consumption because of population growth

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C-67	7792-97	June 8	HAL	Mayo	Citizen	Canada's first priority must be an energy policy; The Science Council Background Report No. 33 by Knelman re energy supply; "Energy Supply and Economic Growth" address by Goldberg; "Energy Strategy: The Road Not Taken" by Lovins
177	27486-89	Aug 25	YK	Wood	NWT/AM	National energy policy, subsidize east; costs, cheaper energy sources
181	28118	Sept 8		Reimer	MVPI	Need for government policy, high prices eventually cut consumption
	28132-34			Reimer		Need greater emphasis in government policies; future shortages
188	29232	Sept 21		Neakok	COPE	Suggested Arctic community energy policy to be jointly adopted by U S. and Canada
202	32029-30	Nov.17		Thompson	CARC	Monetary expenditure on energy conservation more efficient than developing new energy sources

ENVIRONMENTAL FACTORS RELATED TO THE PIPELINE

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XV	1666	Mar.11	YK	Dau	CAGPL	Considerations re: route selection
	1706			Dau		Considerations re: route selection, consultants
	1715			Dau		Route relocation
XVI	1772	Mar.12		Dau		Interior vs. Coastal Route - selection
				Gibbs	Foothills	
	1786-91			Mollard	CAGPL	Fort Simpson Route change, Ebbutt Hills
				Gibbs		
	1828-29			Anthony	CARC	Considerations re: route selection
	1847-49			Anthony		Considerations re: route selection
	1871-74			Berger		Cross-delta route change
XVII	1900-03	Mar.13		Bell	NWTIB/MA	Importance in route selection
				Dau		
	1949-52			Bayly	COPE/ITC	Consideration re: cross delta route
	1981-86			Dau		Travaillant Lake Sensitive Area; relocation of route; environmental effects of gravel removal
	1990-92			Mollard		Effect of removal of gravel from river channels
	1999-2000			Dau		Potential for pipe failure; impact of failure and repair on caribou, geese
XVIII	2027	Mar.14		Dau		Consideration re: potential cross delta route change
				Bayly		
	2077-81			Scott	MVPI	Consultation of environmental experts re: route location; April 1973 meeting
				Dau		
	2091-03			Scott		Considerations re: route selection; Travaillant Lake Sensitive area; route changes for environmental reasons; lack of scale of priorities
				Dau		
	2111			Scott		Environmental input in to route changes
XIX	2189-94	Mar.17		Clark	CAGPL	Impact on geotechnical considerations; collection of baseline data borrow areas, drainage & erosion control measures; interdisciplinary field trips; test sites
XIXA	2229-32	Mar.17		Clark	CAGPL	Environmental input in to drainage & erosion control measures
	2239-41			Clark		Route selection, realignment; environmental input
XX	2294-95	Mar.18		Genest	CAGPL	Provision of environmental information re: cross delta route change
				Anthony	CARC	
XXII	2623-24	Mar.20		Clark		Biological report series, fish
XXIII	2671-72	Mar.21		Genest		Filing of draft minutes of Engineering Environmental Review, May 24, 1973 as exhibit
	2692-94			Morgenstern	CAGPL	Pipeline constructed in "environmentally acceptable manner", total ecosystem concept
				Clark		
	2703-05			Templeton	EPB	Removal of snow/water from lakes for snow roads; total ecosystem concept
				Clark		
	2719-24			Clark		Route location, environmentally sensitive areas
				Berger		
	2738-46			Clark		Route, design, time of construction; Pointed Mountain Line, river crossings, environmental guidelines
				Hardy	CAGPL	

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XXIII	2761	Mar. 21	YK	Scott	MVPI	Alignment sheets
XXIV	2796-99 2833-35 2865-71	Apr. 7		Lane Hardy Clark	COPE/ITC	Berm detour for migrating animals, gabions Effect of blasting on caribou and fish spawning Interdiscipline-reports of environmental consultants
XXIV-A	2881-84 2923 2932-39			Clark Hardy Scott & Panel 2		Minimum adverse impact-consideration in design Damage from river crossing failure Design solutions for integrity of environment
XXV	2949-64 2979-81	Apr. 8		Genest Clark Cooper	CAGPL CAGPL	Re: route change Overhead avoids river bed damage, no scour
XXV	3005-11 3041-42	Apr. 8	YK	Hardy Scott	CAGPL MVPI	Damage due to repair-crossing failure Avulsion behind sag bend
XXVI	3262	Apr. 9		Scott		Frost heave
XXVII	3412-13	Apr. 10		Scott		Freezing/thawing; pipeline construction
XXVIII	3453 3554	Apr. 11		Scott Morgenstern	CAGPL	Frost bulb, ground water, excess pressure Construction people
XXIX	3652 3666-66A	Apr. 14		Purcell	CAGPL	Design: anticipate impact, preserve physical integrity Special considerations re: Arctic environment
XXX	3762-68	Apr. 15		Purcell		Above ground - barrier to migrating animals
XXXI	3911-13 3937-41 3970-74 3975-92 3989-92	Apr. 16		Purcell Koskimaki Reid Reid Reid	CAGPL CAGPL	Location of compressor stations Compressor stations, noise levels Warm water test, frozen streams Methanol storage, water courses Discharging of methanol, water requirements
XXXII	4122-23	Apr. 18		Reid		Effect of methanol on fish overwintering
XXXIV	4388-95 4402-03 4454-56 4457 4464-75 4483-85 4500-02	Apr. 22		Dau Dau Williams Williams Dau Williams Carter	CAGPL CAGPL CAGPL	Construction plan. Stream crossings, migration of animals Consultants for environmental research Inspectors, roles Inspectors for owners, and from government agencies Snow fences and caribou Disturbance of animals by aircraft
XXXVI	4655-68 4682-85 4698	May 12	YK	Lucas Scott Lucas	CARC MVPI	NAG supplies technical support Major group of participants is environmentalists NAG research provides environmental stipulations
XXXVII	4701 4707-12	May 13		Scott Genest	CAGPL	Funding, environmental research, NAG Possible route changes due to environmentally sensitive areas
XXXVIII	4758-63 4868-70 4894 4900-03 4926-38	May 14		Bayly Lucas Lucas Lucas Lucas	COPE/ITC CARC	Summer construction; aquatic, bird life; caribou herds Techniques used for river crossings Northern conditions, arctic/conventional methods Blasting Great Bear River, grayling migration downstream spawning white fish runs Environmental, social stipulations on construction
XXXIX	5072 5079-80 5162	May 15		Williams Williams Harlan	CAGPL CAGPL	Additional river silt - not considered serious Effect of blasting - no objections from advisors Priority of protection when monitors work for owner
41	5315-22 5331-34	May 20		Hurd Templeton Hurd	CAGPL EPB	Line breaks, repairs; terrain degradation Environmental monitoring; start up manuals
42	5435-37 5509-21	May 21		Scott Scott		Purging pipeline sections, timing Short-term vs full repair in sensitive areas

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42	5546-48 5569-70	May 21	YK	Horte	CAGPL	Diameter of pipe Looping, original pipeline
43	5582 5642-43	May 22		Horte		Environmental considerations, route selection Considerations, route selection
44	5864-77	May 23		Bayly		Cross delta route change, considerations
45	5881-82 5889-92 5926-30	May 24		Bayly Horte Bayly		Environmental inspectors Prime route moved west of Travaillant Lake Inputs to location of pipeline facilities
45	5979-90	May 24	YK	Scott	MVPI	Process of route selection
46	6033 6042	June 2		Templeton	EPB	Environmental change EPB objectives, impact predictions, level of performance
49	6517-24 6536-45 6585-97	June 5		Horte	CAGPL	Consultants from NES Environmental consideration to route selection Reduce necessity of future work by oversizing pipe
50	6623-29 6684-97 6709-10 6738-43	June 6		Horte		Environmental committee - public participation Environmental differences between Yukon routes Responsibility not for outside construction manager Contractors' staff to deal with special problems
C-14	1334-45 1358-61	July 11	O.C.	C.Abel A.Charlie	Citizen Citizen	Seismic crews tearing up land Empty gas drums left after exploration
56	7809 7812-19 7835-47 7847-51 7863-6	Aug.18	YK	Horte		Cost of studies Organization of CAGSL and N.E.S staff with respect to environmental and geotechnical research Location of wildlife areas; consultation with environmental protection agencies Cross-delta route change, environmental issues; water temperature; fish Construction phase; authority given to environmental personnel to halt construction work
58	8145-6 8174-6 8198-200	Aug.20		Blair	Foothills	Studies being completed as to pipeline impact; to be terminated when enough research has been completed Views on environmental effect of looping; river crossings; cross delta route change Pipeline to avoid sensitive areas and areas of environmental interest; breeding ground; nesting sites; soil sensitive areas
59	8338-40 8356-59 8408-09 8429-40	Aug.21		Mirosh Gibbs Bouckhout Marshall	Foothills Foothills CAGPL	Consideration of pipeline effects in the Travaillant Lake area Foothills studies; assessment of pkpact based on previous and up-to-date research Studies re: routes of community supply laterals
	8470-2			Marshall Bouckhout		Foothills personnel involved in studies; temporal sufficiency; multi-disciplinary group; on-site location resolution; need for more data in extensive land area re: cross-delta route change; route difference from CAGPL
	8470-2			Anthony Mirosh	CARC Foothills	Foothills research and personnel responsibilities
60	8505-33 8546-57 8558-60 8566-69 8571-3 8581-7	Aug.22		Bouckhout		Assessment of sections of route as prepared; verification and field studies No environmental concerns expressed re: archaeological sites Changes made after discussion with D.P.W. environmental considerations Input to site specific location of major river crossings Consultants, studies on Yellowknife to Pine Point supply lateral Routing, International Biological Programme
52	7022-56	Aug.12	WH	Scott Dau Hematock	MVPI CAGPL CAGPL	Relative weight in route selection
53	7074-77	Aug.13		Bell	NWT IB/MA	Precedents over economic considerations in route selection
53A	7296-97 7310-13	Aug.13		Leonard Thompson	CARC CARC	Protection of unique environment - Wildlife range Areas unique to the Wildlife Range

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C-23	2302-05	Aug.14	WH	D. Greg	Citizen	Inestimable value of land & wildlife
	2305-06			R. McKaymie	Citizen	Adaptability of birds; overhunting
	2327-28			B. Bachelor	Citizen	Carving up the land for consumerism
	2343-48			I. Warner	Citizen	Environmental policies -Federal Government
	2351-52			C. Taylor	Citizen	Recommendations of Yukon Conservation Society
	2358-61			Berger		Studies & funding related to the impact of the pipeline
62	8793-94	Sept.16	YK	Mirosh	Foothills	River crossings; single versus dual piping; disruptive effects; drainage; slope-stability
	8816-17			Mirosh		Input from environmental and socio-economic consultants, river crossings, compressor station sites
	8845-54			Mirosh		Drainage and erosion control; frost heave; Yellowknife lateral to be un-chilled; soil stabilization measures, ditch line
	8859			Mirosh		Explosive effects; safety measures; pipe rupture
	8872-78			Mirosh		River crossings; stability of river banks, erosion control, effect on fish; breakage and repair during any season of the year
63	9147-48	Sept.17		Holtsbaum	Foothills	Effects of various environments on corrosion
64	9328-34	Sept.18		Mirosh		Interdisciplinary assessments of compressor station sites
	9418-19			Spafford	Foothills	Need for environmental input into stream crossing in winter
65	9488-91	Sept.19		Davison	Foothills	Believe a safe environmentally secure pipeline can be built
				Spafford	Foothills	
	9557			Hwang	Foothills	
				Claridge	Foothills	Link between environmental & engineering aspects of generalizing data from 2 study areas
66	9822-27	Sept. 22		Jarvis	Foothills	Effects of snow & water removal from lakes on overwintering fish
67	9839-53	Sept. 23		Bauer	Foothills	Effects of wood chipping machines on soil; impact of burning of slash on permafrost soil; effects of wood chipping machines on water and fish; borrow material required; stability and erosion controls; frost penetration necessary for snow roads
				Mirosh	Foothills	
	9935-41			Mirosh		Comparison of Foothills and CAGPL proposals re clearing by hand and machine
	9964-66			Bauer		
				Mirosh		Implications of summer scheduling
	10012-21			Mirosh		Storage of fuel in tankers; beaching sites
	10042			Hushion	Foothills	Policies enforced by regional headquarters
68	10057-58	Sept.24		Hushion		Helicopters decrease number of access roads required; use of low pressure vehicles
	10106-09			Hushion		Powers and number of environmental engineers to be stationed in division and district offices
	10143-44			Dau	CAGPL	Contractors' consideration of environmental concerns in preliminary estimates
	10152-53			Williams	CAGPL	Contractors told to forget environmental concerns re certain river crossings
	10206-08			Templeton	FPB	Frame of reference of FPB studies not offered by CAGPL or AGTL
	10215-19			Templeton	EPB	Penalties for infractions of pipeline agreements
	10224-28			Templeton		Drafting of codes acceptable to various disciplines
70	10541-63	Sept. 26		Longlitz	MVPI	Construction of snow roads, temporary access roads; vehicle use; vegetation disturbances; erosion
78	11617-74	Oct. 23		Minning	CAGPL	Reading of Phase 2 evidence; need and plans to revegetate the right-of-way and construction areas; need for erosion control and slope stabilization measures; restoration of lands; water quality
79	11694-700	Nov.3		Minning		Preparation required for borrow pits in active flood plains
	11758-59			Minning		Removal of borrow from river channels and flood plains; impact on birds, fish etc.

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80	11851-73 11874-75 11883-84	Nov. 4	YK	Hemstock Minning Hemstock	CAGPL	Knowledge of sensitive terrain when route selected Environmental guidelines in choice of more distant borrow sites Conflicting priorities of environmental disciplines in choice of borrow sites
81	11978-94 12048-52	Nov. 5		Clark Harlan Minning	CAGPL CAGPL	Icings; contact of chilled line with ground water Identification of ecologically fragile areas in assessing borrow sites
82	12207	Nov. 6		Panel	CAGPL	Order of concerns re: environmental impacts listed by each witness
83	12419-39	Nov. 7	YK	Scott Environmental Panel	MVPI CAGPL	Route selection, environmentally sensitive borrow sites; dens, sensitivity ratings; Rat River pit; site plans impact statements; gravel mining scheduling
85	12708-37	Nov. 12		Environmental Panel	CAGPL	Impact, river crossings, Blackwater River typical; water withdrawal, Firth River
85A	12799-12800			Harlan Hemstock	CAGPL CAGPL	River crossing designs, effects
86	12804-07 12934-35	Nov. 13		Hemstock Vaartnou		River crossing design, impact statements Animal impact on revegetated areas
87	13122 13181-92	Nov. 14		Marshall Drew	CAGPL Foothills	Information on Delta environmental protection unit Terrain sensitivity as environmental impact guide
88	13200-08 13223-34	Nov. 17		Ryder Bouckhout Bouckhout Drew	MVPI Foothills	General concerns; differences of considerations, Foothills versus CAGPL Terrain sensitivity ratings, uses
88-A	13359-94	Nov. 17		Environmental Panel		Impact on the living environment; vegetation, re-vegetation, fish
89	13426-30	Nov. 18		Gunn	CAGPL	Disturbance of birds, human presence, aircraft, recommendations
90	13715-19	Nov. 19		Bayly Dabbs	COPE/ITC CAGPL	Soil fertility, plant succession, introduced species
91	13767-830	Nov. 20		McCart	CAGPL	Fish impact, critical areas, route impact survey, route selection, site specific recommendations; monitoring; inspectors; methanol effects
97	14823-31	Dec. 5	YK	Scott Jakimchuk	MVPI CAGPL	Increased stress on Porcupine caribou due to increased number of developments; Dempster Highway plus pipeline
103	15746-54	Dec. 15		Walker	CARC	Implications of construction on fish resource re: coastal, interior routes, Fort Yukon, Fairbanks corridors
C-26	2673	Sept. 9	FS	Norwegian	Citizen	Harm to country re: unity between native and white
112	17037-70	Jan. 20	IN	Bliss	GPC-D	Overview of ecology of Mackenzie Delta
130	19736	Mar. 16	YK	Marshall	CAGPL	CAGPL's modifications to accommodate environmental concerns raised before Inquiry
131	19989-92	Mar. 17		Williams	CAGPL	Environmental constraints on Shallow Bay crossing, whales, birds etc. delaying construction
132	20014-15 20111	Mar. 18		Williams Williams		Environmental acceptability of route Summer maintenance on Delta
133	20126-A-27	Mar. 23		Rowe	CAGPL	Cross-Delta route selection of location, studies
C-49	4789-92 4797-4800 4823-24	May 10	VAN	Scoten Gallon Guy	Citizen Citizen Citizen	Studies by industry to avoid serious impact of construction Problems of spills Need for energy policy and proper environmental consideration
C-51	5147-53 5182-85 5205-11	May 12	VAN	Hemstock P. Chataway D. Pimlott	CAGPL Citizen CARC	34 Biologic Reports from Arctic Gas Impact of Alyeska pipeline Work of Northern Assessment Group
C-53	5555	May 14	CAL	Willms	Citizen	Must determine how to develop with minimum damage

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C-54	5587	May 17	EDM	McKenzie	Citizen	Environmental regulations should be adhered to closely; overall energy requirements outweigh temporary environmental inconveniences
	5597-99			Leadbeater	Citizen	Consideration of environmental impact of resource development; provisions for research, respecting findings
	5618-21			Johnson	Citizen	Human culture and environmental crisis closely related
	5632-44			Swift	Citizen	Oil spills from Great Canadian Oil Sands pipeline, environmental damage caused by clean-up
	5671-72			Murray	Citizen	Construction is possible without dislocating northern environment, through careful control
	5731-32			Robertson	Citizen	Government agency should administer environmental protection, must preserve IBP sites
C-59	6449-50	May 26	TOR	T. Green	Citizen	Protection of wildlife, conservation programs
	6473-80			D. MacKay	Citizen	Oil spills - prevention, prediction of volumes, clean-up
	6518-25			M. Edwards	Citizen	Protection of northern wildlife; tele-stimulation; costs of system
C-60	6634	May 27		R. Snyder	Citizen	Expanding knowledge; CAGPL, research and testing program
C-61	6840-43	May 28		D. Elliott	Citizen	Effects of construction on land, wildlife
C-64	7226	June 3	OTT	Hatton	Citizen	Environmental questions have not been adequately answered
	7262			Mosquin	Citizen	Pipeline would cause ecological damage to wilderness, should build along Fairbanks corridor

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XV	1615-22	Mar.11	YK	Genest	CAGPL	Filing of Exhibits 54-71
	1622-28			Anthony Gibbs Genest	CARC Foothills	Filing of exhibits supporting Application to NEB
	1628-29			Scott Genest	MVPI	Summaries required by Rulings
	1632-33			Genest		Background, qualifications of Dau, Williams, Mollard, Watson; documents referred to in testimony
	1638			Genest		Exhibits 72, 73
	1740-41			Bayly	COPE/ITC	Summaries required by Rulings
XVI	1745-47	Mar.12		Genest		Proposed 42" pipe alternative
XVII	1875-77	Mar.13		Genest		Exhibit 74
	1932			Bell	NWTIB/MA	Exhibit 75
XIX	2132-34	Mar.17		Genest		Biographical data of witnesses on Panel 2, Exhibit 76, 77 (Drainage & Erosion Control; Frost Effects; Supplemental Hydrology), 78 (Appendix B)
	2217			Scott		Slides used in presentations
XX	2406-07	Mar.18		Genest		Minutes of meetings re Mackenzie Highway, May r, May 18, 1972 marked as Exhibits 79, 80
XXI	2420	Mar.19		Morgenstern	CAGPL	C sketch to be filed as Exhibit
	2526			Mercredi	Citizen	Submission marked Exhibit 81
XXII	2591-92	Mar.20		Slusarchuk	CAGPL	Slide, frost bulb around pipe
XXIII	2671-73	Mar.21		Anthony Genest		#82 River Breakup and Ice Study, 1974; #83 Alignment Sheets; #84-A Minutes of meeting April 10, 1973; 84-B May 24, 1973
XXIV	2763	Apr.7		Scott		Church's slides #86
XXV	2948-50	Apr.8		Genest		#87 Drill hole data #88-90 Alignment sheets
	3014-18			Scott		#92 Journal of Soil Mechanics #93 Owen & Van Eyk
	3042			Berger		#94 Hollingshead's report

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XXVII	3279 3354	Apr. 10		Scott Scott		Speckled Bog Drawing, #95 #96 applications of geothermal analysis, N.E.S., June 1974
XXIX	3564-67 3567-68 3645 3650 3664	Apr. 14		Marshall Scott Marshall Marshall Marshall	CAGPL	#98 Heave at Calgary test site #101 Mollard's letter, Oct/69 and maps #102-2 slides #103 Stability of thawing slopes #104 List of reports #105 Errata #105 Resumés of witnesses
XXX	3822-23	Apr. 15		Gibbs Marshall	Foothills	Questions re Minutes of Metallurgy Sub-Committee for April 1973
XXXI	3873-75	Apr. 16		Gibbs		Question about "National Economic Effects of the Applicant's Proposal"
XXXIII	4226 4298 4303-04 4322	Apr. 21		Genest Berger Berger Berger	CAGPL	#108, resumés; 109, list of studies and reports Williams' slides, resource requirements, to be marked #110-115, slides, Arctic construction Williams' presentation on snow roads
XXXIV	4375 4380	Apr. 22		Marshall Genest		Delta Producers Facilities Map, #117 Delta Panel 4, reports and studies filed April 21, 1975
XXXVII	4705	May 13		Hollingworth	Foothills	Filing report on Minutes of Metallurgical Sub-Committee, Calgary, April, 1973
XXXIX	5122	May 15		Harlan	CAGPL	#120, Harlan's resume; #121, Drainage and Erosion Control
40	5191 5246	May 16 May 20		Marshall Marshall		#122, Operations and Maintenance Panel Witnesses Resumés #124, #125, Report on Trip to U.S.S.R.; Canadian Government draft report on trip
	5273	May 20		Scott		#126, Mackenzie Delta, or Summary Report of Surface Conditions
42	5421 5531 5543 5555	May 21		Marshall Genest Genest Genest	CAGPL CAGPL	#126, Government final report on trip to U.S.S.R. #127, Horte's qualifications #128, personnel structure of CAGPL #129, "Effects of Looping and Increasing Horsepower on Gas Deliveries"
43	5673	May 22		Gibbs Horte	Foothills CAGPL	#130, "National Economic Effects of Applicant's Proposal"
44	5781-82	May 23		Berger Genest		#131, "Impact of Proposed Arctic Gas Pipeline on Energy Costs in Northern Communities"; #132, Letter to Fort Good Hope Band Council; #132A, Letter from N.E.S. to Northwest Lands and Forests Services; #133, Statement, Mr. Horte
45	5887	May 24		Genest		#134, "Alternative Routings Mackenzie Delta Area"
46	6029-30 6084 6086	June 2		Templeton Craik Craik	EPB EPB	#135, EPB Final Report; #136, Subsequent Report; #137-139, Interim Reports #140, EPB Workshop report #140, brochures; #141, newsletter
48	6421-22 6442-43	June 4		Bliss Templeton	EPB	#142, Environmental Guidelines for Gas Pipeline Development #143-145, letters to E - SP and Prime Minister
49	6458	June 5		Horte		#146, Cost of Facilities
50	6667	June 6		Horte		James Bay Agreement #148
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	254			Berger		C-11 Statement of Roy Fabien
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	551			Berger		C-14 Candies, Cigarettes, Etc.
	580	May 31		Berger		C-15 Statement of T. Camsell
C-7	650	June 24	F.F.	Berger		C-16 Naedzo's map C-17 Hunting map
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	898	June 27	F.N.	Berger		C-24 Letters relating to land use permits
	955					C-29 Statement of Helen Naedzo
	980					Statement of J.Blondon
C-11	988	July 8	F.McP	Berger		C-28 Letter, July 4,1975 - From Minister Buchanan
C-12	1076	July 9		Berger		C-31 Land Use Map C-31A Biography Sheet for Land Use Map C-31B Place Names on Map
	1088			Berger		C-32 Statement of Phillip Blake
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	1105			Berger		C-34 Statement of Mrs. Colin
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	1125			Berger		C-36 Statement of Bob Simpson C-37 Statement of Gladys Lunie C-38 Statement of Richard Francis
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	1130			Berger		C-40 Mrs. Jimmy Thompson's Letter
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	1137			Berger		C-42 Statement of M. Kendi C-43 Statement of Sarah Francis, Sr.
	1139			Berger		C-44 Statement of William Nerysoo, Sr.
	1147			Berger		C-45 Letter of M. Neyendo
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	1249			R. Stewart	Citizen	C-59 Letter of Rosie Stewart, Sr.
	1253			J. Simon	Citizen	C-60 Summary of John Simon
	1264			J. Charlie	Citizen	C-61 Statement of Chief Johnny Charlie C-61A Statement of Jane Charlie
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	1310			W. Smith	Citizen	C-63 Resolutions
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	1362			W. Smith		C-67 Statement of Neil McDonald
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	1549			B. Charlie	Citizen	C-85 Statement of Rev. John Watts
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59	8328	Aug. 21		Marshall	CAGPL	#222 Joint Research and Feasibility Study Agreement date June 1, 1972
	838A-89			Gibbs		#223 Map of Foothills Prime Route #224 Map of Community Servicing
51	6761	Aug. 11	WH	Smith	Gov't. Yukon	Exhibit #149 Commissioner Smith's remarks Exhibit #149-A Map of Yukon Transportation Systems
	6760			Hemstock	CAGPL	Exhibit #150 Resumé of R.A. Hemstock's qualifications
	6775-76			Marshall		Exhibit #151 Dr. Banfield's qualifications Exhibit #152 List of reports relied on
	6823			Berger		Exhibit #153 Evidence on alternative routes and corridors
52	6920	Aug. 12	WH	Anthony	CARC	#155 ACND documentre schedule of oil pipeline
	6926			Carter	CAGPL	#156 Orthomosaic photo of Fort Good Hope and Hare Indian River area
53	7208-09	Aug. 13	WH	Sprecker	CYI	Monthly Report, Copper River Native Association marked #157 Statistics re Alcohol, traffic, Property damage 1971-72. Marked #158
	7260			Sprecker		Traditional Indian Land Uses Proposed Pipeline Routes Marked #159 Evidence of Hemstock Panel marked #160 Evidence of David Joe Marked #161 Evidence of James Wah-Shee Marked #162
	7382			Thompson	CARC	Evidence Marked # 163
				Thompson		Reports relied on Marked # 164
				Thompson		U.B.C. Law Report Marked # 165
53A	7393	Aug. 13		Berger		Synopsis of Dr. Collins' remarks # 169 Booklet "Arctic Gas Project" #170 Map - Thompson Panel #171 Map - Arctic Gas #172 Map - CYI #173 Map - Alternate routes #174

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54	7456	Aug. 14	WH	Anthony	CARC	Exhibit #175 - Resume of Robert B. Weedon Exhibit #176 - Resume of Walter Parker Exhibit #177 - Reports filed Exhibit #178 - Prepared testimony of Dr. Robert B. Weedon
	7514-15			Goudge	MVPI	Exhibit #179 - Arctic Regional Profile Exhibit #180 - Resources of Alaska Exhibit #181 - Map--Major Ecosystems of Alaska Exhibit #182 - Land Status Map of Alaska Exhibit #183 - Draft entitled The Proposed Beaufort Sea Nearshore Petroleum Leasing Report
	7550-51			Goudge		#183 - Prepared testimony of Walter Parker #185 - Arctic Transport Costs, The Myths and the Realities, Walter Parker, August 11, 1915 #186 - Multimodal Transportation and Utility Corridor Systems in Alaska, October 1974, and November 1974 #187 - Statement of Position of The State of Alaska
55	7645-46			Goudge		#188 - Resume of Dr. Hughes #189 - Summary of evidence of Dr. Hughes #190 - Resume of Dr. Morlan #191 - Summary of evidence of Dr. Morlan
C-18	1797	Aug. 5	FGH	F. T'Seleie	Citizen	Submissions marked #C-109
				J. T'Seleie	Citizen	#C-110
				F. Rabisca	Citizen	#C-111
	1802			Kakfwi	Citizen	Submission marked #C-112
	1806			Lafferry	Citizen	Submission marked #C-113
	1813			A. Wilson	Citizen	Submission marked #C-114
	1814			J. Pierrot	Citizen	Submission marked #C-115
	1822			J. Caesar	Citizen	Submission marked #C-116
C-19	1837	Aug. 6		Kochon	Citizen	Submission marked #C-117
	1845			S. Kakfwi	Citizen	Submission marked #C-118
	1858			D. Rowe	CAGPL	Map showing borrow sources Ft. Good Hope marked #C-119
	1858			J. Ellwood	Foothills	Map showing borrow sources Ft. Good Hope marked #C-120
	1858			D. Rowe	CAGPL	Map showing routes marked #C-121
	1870			J. Lomson	Citizen	Letters re land use permits marked #C-122, #C-123; telegrams re exhibits C-122 & C-123
	1881			Father Labatt	Citizen	Submission marked #C-125
	1884			J.T ³ Seleie	Citizen	Submission marked #C-126
	1885			Edgi	Citizen	Submission marked #C-127
	1894			M. Heming	NHW	Submission marked #C-128
	1895			Ritias	Citizen	Submission marked #C-129
	1898			E. Lennie	Citizen	Submission marked #C-130
	1899			J. Grandjambe	Citizen	Submission marked #C-131
	1900			L. Gully	Citizen	Submission marked #C-132
C-20	1910	Aug. 7	FGH	Blair	Foothills	Statement marked #C-133
	1914			Rowe	CAGPL	Map showing proposed wharf & stockpile sites marked #C-134
	1931			G. Scott	Citizen	Submission marked #C-135
	1948			M.R. Drybone	Citizen	Submission marked #C-136
	1962			J. T'Seleie	NWT IB/MA	Land use map, Ft. Good Hope area marked #C-137
	1990			A. Tobac	Citizen	Photographs and Diagrams marked #C-138
	1996			J. Grandjambe	Citizen	Submission marked #C-139
	2003			T. Pierrot	Citizen	Submission marked #C-140
	2004			C. Edgi	Citizen	Submission marked #C-141
	2006			A. Edgi	Citizen	Submission marked #C-142
	2009			B. Shae	Citizen	Submission marked #C-143
	2011			J. Turo	Citizen	Submission marked #C-144

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C-20	2012	Aug. 7	FGH	F. Pierrot	Citizen	Submission marked #C-145
	2014			G. Rabisca	Citizen	Submission marked #C-146
	2020			F. Barnaby	Citizen	Submission marked #C-147
	2023			L. Pierrot	Citizen	Submission marked #C-148
	2025			F. Kelly	Citizen	Submission marked #C-149
	2028			M. Wilson	Citizen	Submission marked #C-150
	2033			J. Grandjambe	Citizen	Submission marked #C-131A
	2034			J. Charney	Citizen	Submission marked #C-151
	2041			M. Cotchilly	Citizen	Submission marked #C-152
	2043			J. Moynihan	Citizen	Submission marked #C-153
	2046			B. Edgi	Citizen	Submission marked #C-154
C-20	2047	Aug. 7	FGH	W. Kelly	Citizen	Submission marked #C-155
	2048			B. Brutse	Citizen	Submission marked #C-156
	2053			T. Kakfwi	Citizen	Submission marked #C-157
	2055			J. Caesar	Citizen	Submission marked #C-116A
	2057			M. Cotchilly	Citizen	Submission marked #C-158
	2057			J. Shae	Citizen	Submission marked #C-159
C-21	2082	Aug. 9	NW	P. Howard	Citizen	Brief from Parent-Teachers Association marked #C-160
	2096			G. Monuik	Citizen	Statement marked #C-161
	2107			C. Ross	Citizen	Statement marked #C-162
	2108			G. Loomis	Citizen	Statement of Chamber of Commerce marked #C-163
	2131			C. Barnabe	Citizen	Statement marked #C-164
	2132			E. Koren	Citizen	Statement marked #C-165
	2142			C. Tourangeau	Citizen	Submission marked #C-166
	2144			M. Blondin	Citizen	Submission marked #C-167
	2149			R. Laycock	Citizen	Submission marked #C-168
	2152			D. Monuik	Citizen	Submission marked #C-169
	2177			R. Yakeleya	Citizen	Submission marked #C-170
	2190			R. Sinotte	Citizen	Submission marked #C-171
	2197			J. Ross	Citizen	Submission marked #C-172
	2198			F. Ablen	Citizen	Submission marked #C-173
C-22	2231	Aug. 11	WH	C. Pearson	Citizen	Submission of Chamber of Commerce, Whitehorse, marked #C-174
	2270			R. McRobb	Citizen	Submission marked #C-175
	2276			V. Jutronich	Citizen	Submission marked #C-176
	2295			P. Delaney	Citizen	Letter from Yukon Association of Non-Status Indians marked #C-177
C-23	2328	Aug. 14		B. Bachelor	Citizen	Submission marked #C-178
	2341			R. McCandless	Citizen	Submission marked #C-179
	2350			I. Warner	Citizen	Submission marked #C-180
	2353			C. Taylor	Citizen	Brief of Yukon Conservation Society marked #C-181
	2368			A. Cuvret	Citizen	Brief of People's Land Committee marked #C-182
	2381			D. Taylor	Citizen	Statement marked #C-183
61	8614-18	Sept. 15	YK	Gibbs	Foothills	Exhibit #221- Slide showing spare capacity of Alberta Gas Trunk Line System Exhibit #225 - Information re: Capital costs Exhibit #226 - Detail on costs of gas to northern communities Exhibit #227 - Charts of river crossings Exhibit #228 - Travaillant Lake, Thunder River denning areas Exhibit #229 - Memorandum and maps Exhibit #230 - Maps Exhibit #231 - Reports on route adjustments Exhibit #232 - Environmental Reports & studies Exhibit #233 - Route adjustments recommended by Lombard North

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61	8639-41	Sept.15	YK	Gibbs	Foothills	Exhibit #234 - Slide marked volume build-up Exhibit #235 - Slide re: Compressor station schedule
	8639-41			Gibbs		Exhibit #236 - Slide re: year requirement, gas turbine compressor units
	8647-48			Hensch	Foothills	Exhibit #237 - Photograph of Slide Exhibit #238 - Slide
61-A	8736			Gibbs		Exhibit #239 - Photographs of slide
	8741			Gibbs		Exhibit #240 - Frost Heave Loading Configuration (slide)
	8743			Gibbs		Exhibit #241 - Allowable deflections due to Frost Heave Exhibit #242 - Allowable Deflections due to Frost Heave - Frost Heave to Allowable Span Ratio
	8747			Gibbs		Exhibit #243 - Settlement Loading Configuration Exhibit #244 - Allowable deflections due to soil settlement
62	8915			Gibbs		Exhibit #245 - CN Communications System Route Map
63	8998	Sept.17		Gibbs	Foothills	#247 - Diagram - Simple Gas Turbine
	8999			Gibbs		#248 - Figure two - two shaft gas turbine
	9004			Gibbs		#249 - Table: Permissible noise exposure
	9073			Berger		Letter from Judd Buchanan re Cross Delta Route marked #249; Letter from Mr. Hurd of CAGPL accompanying Minister's letter marked #250
	9128			Wetterberg	Foothills	Three tables re steel capacities & requirements marked #252
	9136			Wetterberg	Foothills	Tables showing ruptures & leaks by cause; AGTL operating ruptures marked #253
64	9212	Sept.18		Marshall	CAGPL	Letter from Battelle to NES re Foothills use of BCL Fracture hypothesis marked #254
	9280			YIP	Foothills	Slide: Ground temperature variation at location near Inuvik marked #255
65	9453			Marshall		Paper: J.F. Nixon & N.R. Morgenstern; Thaw Consolidation Tests on undisturbed Fine-Grained Permafrost - marked #256 Paper: N.R. Morganstern & J.F. Nixon; An analysis of the Performance of a Warm-Oil Pipeline in Permafrost Inuvik NWT #257
	9631	Sept.19		Jarvis	Foothills	Winter road construction schedule by climate criteria spreads 1 & 2 marked #258
	9634			Jarvis		Snow fall accumulation based on recorded water equivalents marked #260 Table Y, Range of climatic criteria required for winter roads operations marked #259
66	9765	Sept.22		Scott	MVPI	Comparison of Foothills & CAGPL applications for permit to construct the Mackenzie Valley Pipeline marked #261 Comments of Foothills on the PAAG questions & CAGPL responses marked #262
68	10037	Sept. 24		Hollingworth	Foothills	Logistics Map - Foothills Pipeline marked #264
	10135			Genest	CAGPL	Memorandum to Marshal re contractor input to CAGPL planning and scheduling marked Exhibit #155
	10173-74			Genest		Supplementary material re Cross-Delta route change marked #266; alignment sheets marked #267
	10183			Hollingworth		Klohn Leonoff report on Slope Stability marked #268
69	10444	Sept. 25		Owen	MVPI	#269 - Report: Observations of the Pointed Mountain Gas Pipeline, February 1975 #270 - Report: Engineering Geology of the Buried Hot Gas Pipeline between Pointed Mountain and Beaver River, F. B. Owen, 1975 #271 - Slides used by E. B. Owen in presentation
	10458			Owen		Pointed Mountain land use permit to be made an exhibit

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70	10538	Sept. 26	YK	Goudge	MVPI	#272 - Statement to be used by civil servants
71	10599	Oct. 14		Goudge		#273 - List of papers re frost heave #274 - List of Williams' publications #275 - Copy of Williams' thesis
	10600			Hollingworth	Foothills	#276 - Report on scour, February 1975
72	10689	Oct. 15		Goudge		#277 - Agreement between Crown and Westcoast Transmission
	10703			Goudge		#278 - Land Use Regulations #279 - Posting for Resource Management Officer
	10758			Goudge		#280 - 2 letters marked
73	10825	Oct. 16		Genest	CAGPL	#281 - Resume of Dr. Hoekstra and List of Reports
	10914			Genest		#282 - Viewgraphs of Dr. Slusarchuk
	10989			Genest		#283 - Article re Freeze and thaw in soils #284 - "The Freezing of Peatland" by Brown and Williams, dated December 1972
	10994			Genest		#285 - Table entitled "Productivity Comparison, Inuvik Area"
	11000			Genest		#286 - Tables: Working Light, Fort Simpson, Norman Wells and Inuvik
75	11141	Oct. 20		Marshall	CAGPL	#287 - Cost comparison between Fairbanks Corridor and Prime Route
76	11142	Oct. 21		Scott	MVPI	#288 - Draft Environmental Statement
	11300			Hughes	CARC	#289 - Permafrost Map of Canada
77	11346	Oct. 22		Anthony	CARC	#290 - Resumé, list of reports and summary of evidence of Dr. N.E. Rutter
	11352			Rutter	CARC	#291 - Terrain evaluation re: pipeline construction dated December 1973 #292 - Index map of terrain mapping, Mackenzie Transportation Corridor
	11446			Anthony		#293 - Resumé, List of reports and summary of evidence of Dr. M. A. Roed #294 - Report, Alternate Transportation Routes and Corridors Geoconsult, Ltd.
	11456			Roed	CARC	#295 - Earth satellite photograph #296 - Figure 2, Fluted moraine or plain
	11488			Roed		#297 - Map of possible alternate routes #298 - Table 1, Ratings of alternate routes
78	11502	Oct. 23		Berger		#299 - Article from Northern Mines, October 16, 1975, re: Polar Gas Project
	11580			Goudge	MVPI	#300 - Report of Dr. Rampton, "Terrain Evaluation, Mackenzie Transportation Corridor"
79	11686	Nov. 3		Minning	CAGPL	View Graphs Marked Exhibit 303
	11772			Dabbs	CAGPL	Progress Report, CAGSL, Revegetation Studies North of 60 Sept. 1974 Marked No. 305
81	11961	Nov. 5		Anthony	CARC	List of reports relied on by Dr. Roed Marked Exhibit 306. 6 Articles Re: laying of pipelines below bodies of water marked 307. Abstracts of papers "Deep Water Pipeline Techniques" and "Laying Stress Calculated in Deep Water Pipelines" Marked No. 308
84	12524	Nov. 8		Anthony		NAG reports
85	12690	Nov. 12		Bayly	COPE/ITC	Steigenberger report
86	12871	Nov. 13		Gibbs	Foothills	#311, Appendix "C", "Proposed Revegetation Specifications"
87	13122	Nov. 14		Bayly Berger		#312, "Typical Treatment Units ..." A.E.S. Ltd.
88	13268	Nov. 17		Ryder	MVPI	#313. "Preliminary Archaeological Study, Mackenzie Corridor/Second Report"

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88-A	13345-52	Nov. 17	YK	Gibbs	Foothills	#314 Report on Compressor Station No. 14 Gas Heaters #315 Information on location of Compressor Station 1. #316 Information re Temperature Profile along Yellowknife Lateral #317 Scour Depth of cover at East Channel Crossing of Mackenzie River #318 Interim Reports on Mathematical Model #319 Dr. Glockner's Report to E. Mirosch #320 Report re Pipelines attached to Bridges #321 Foothills' Communication System by C.N.T. #322 Interim Report re Sound Surveys at AGTL Compressor Stations #323 Information on Sites where helicopter transportation will be used #324 Information on sites where O. & M. would use snow roads #325 Information on size & type of helicopters #326 Study re noise from compressor stations #327 Report identifying community or wildlife concerns re noise at compressor stations #328 Report on effects of emission concentrations on wildlife & vegetation #329 Information on toughness of wall pipe #330 Pipe Price fluctuation data #331 Report re water seepage #332 2 Reports by F. Yip #333 Computer simulation of thermal regime of continuous & discontinuous permafrost #334 Report re environmental impact assessment water Mackenzie Gas Pipelines on stream gauging #335 Design of erosion & drainage control devices #336 Report re Mr. Claridge's drainage study #337 Klohn Leonoff Report on Construction Safeguards to counteract possible disturbance to terrain #338 Estimates of cost & borrow for construction of gravel roads along right-of-way #339 Opinion as to whether material pulverized as a consequence of blasting #340 Reports supporting proposition that exposing right-of-way prior to construction will not result in degradation #341 Foothills Proposed methods for disposition of pipeline test media #342 Reasons why Westcoast proposed 10 block valves in a 140-mile section compared to Foothills proposed compressor station site # 343 Estimated annual tonnages in operations & maintenance
	13357-58			Marshall	CACPL	#344 Dr. Gunn's Resume #345 Biological Report Series #346 Supplemental 1975 #347 Appendix C, Studies & Research Programs #348 Appendix D, Further Studies & Research #349 Appendix E, Reports replied on by panel #350 Biological Report series (34)
93	14062-63	Dec. 1		Marshall		#351 - Report, a summary of ornithological recommendations in regard to the proposed gas pipeline route #352 - Report, review of the literature concerning domestic fisheries associated with proposed gas pipeline routes in the Mackenzie Valley #353 - List of additional reports
98	14863	Dec. 8		Marshall		Maps, gas plant lines, Shell in Delta, Gulf at Parsons Lake
99	15007 15013	Dec. 9		Marshall Marshall		#356, Gunn's slides, photos, notes #309, CARC's supplemental list of reports
101	15407A-08	Dec. 11		Anthony	CARC	#357, evidence of Dr. Peterson #358, evidence of Mr. Zoltai

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101	15493-94	Dec. 11	YK	Anthony	CARC	#365, Canada/MAB Report, October 1, 1975, Guidelines for the Selection of Biosphere Reserves in Canada #366, Soils and Vegetation of Hummocky Terrain, Zoltai and Tarnocai, April 1974 #367, Terrain, Vegetation and Permafrost Relationships, Northern Mackenzie Valley and Yukon #368, Map: Terrain Sensitivity, Mackenzie Valley and Northern Yukon, North Part #369, Map: Terrain Sensitivity, Mackenzie Valley and North Yukon, South Part #370, Wildlife maps; Upper Mackenzie, Middle Mackenzie, Lower Mackenzie, Coastal, Mackenzie Delta and Old Crow regions
	15511			Marshall	CAGPL	#371, photo related to Jakimchuk's evidence
102	15615	Dec. 12		Anthony	CARC	#372, Novakowski's qualifications, list of reports, evidence
	15679					#373, applications to DIAND for Willow Lake, Dolomite Lake - Campbell Lake and Caribou Hills IBP sites
103	15712	Dec. 15		Anthony		#374, Draft report by DeBock, Dennington, Surrendi dated July 1975
	15714			Anthony		#375, Mr. Stein's qualifications, list of reports, evidence
	15716			Anthony		#375, Mr. Walker's qualifications, list of reports, evidence
	15717			Anthony		#375, Mr. Steigenberger's qualifications, list of reports
	15719			Anthony		#375, Mr. Millen's qualifications, list of reports, evidence
	15722			Stein	CARC	#376, Guidelines for the protection of the fish resources of the Northwest Territories during highway construction and operation
103	15734	Dec. 15	YK	Anthony	CARC	#377, Evaluation of fish resources of Mackenzie River Valley, Vol. 73-1, April 1973; #378, Further evaluation of fish resources of Mackenzie River Valley, 74-7, June 1974; #379, Evaluation of fish resources of Mackenzie River Valley
	15758			Anthony		#380, North Yukon freshwater fisheries studies 1973, 74-20; #381, Freshwater aquatic ecology in North Yukon, October 1973, 73-21
	15758			Anthony		#382, Freshwater fishery resources of North Yukon, 73-6
	15762			Anthony		#384, Discussed
	15839-40			Anthony		#374-385 Tabled; #383, Enumeration of spawning chum salmon in Fishing Branch River in 1971/72; #384, North Yukon fisheries studies, 1971-1974, vol. 1
	15796			Anthony		#385, Pipeline construction guide, Central and Southern B.C., July 1974
	15950			Bayly	COPE/ITC	Reference to Exhibit #380 - "Northern Yukon Fisheries Studies, 1973"
105	15979	Dec. 17		Steigenberger	CARC	#386, List of reports requested by Arctic Gas, and letter from D. Bissett dated Dec. 16, 1975
	16116			Steigenberger		#387, Report of Renewable Resources, Dec. 1975
	16152-53			Marshall	CAGPL	#388, 2 Preliminary planning diagrams
				Anthony		#389, Qualifications, list of reports and evidence of Dr. Lent
				Anthony		#390, Qualifications, list of reports and evidence of Dr. Calef #391, Analysis of Environmental Stipulation Compliance on Trans-Alaska Oil Pipeline

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				Anthony		#393, Reaction of Barren Ground caribou to simulated pipeline and crossing at Prudhoe Bay, Alaska;
						#394, Assessment of project status, Trans-Alaska Pipeline
	16279			Marshall	CAGPL	#395, "Ornithological Studies, Cross-Delta Route", L.G.L. Limited, Dec. 1975
107	16283	Jan. 12		Anthony		#396, New Direction in Northern Policy Making, Usher and Noble, Dec. 3, 1975;
						#397, The Past 5 Years, Lessons Learned and Their Effect on Mackenzie Delta Planning, F.B. Peterson, Dec. 3, 1975;
						#398, Offshore Drilling in the Canadian Arctic, D.H. Pimlott;
						#399, The Physical Inivation of the Mackenzie Delta, C.H. Templeton, Dec. 3, 1975;
						#400, Opening Remarks, Dr. A.R. Tompson;
						#401, Maps on Terrain, Vegetation and Permafrost
108	16497-98	Jan. 13		Anthony		#137, Winter Roads Research Reports, Vol. 4, EPB, Sept. 1974
109	16605	Jan. 14		Templeton	EPB	#402, Guidelines for Environmental Training of Pipeline Workers for the EPB, July 1973, revised May 1974, Oetting and Doyle
110	16742	Jan. 15		Anthony		#403, Qualifications, List of Reports and Evidence of Dr. A.T. Bergerud
	16825			Bergerud	CARC	#404, Arctic National Wildlife Range, Alaska, Wilderness Study Report of April 1973
111	16961	Jan. 16		Lent	CARC	From Alaska Conservation Society magazine, article entitled "Gas transportation from the Arctic"
	17001-02			Davies	MVPI	#406, Davies' qualifications, reports relied on, evidence;
						#407, Optimum Pathway Matrix Analysis, 1971;
						#408, Technical Report Feasibility Study, July 1975;
						#409, Q.E.W. Guelph Line to Highway 20 Technical Report;
						#410, Report to Ministry of Environment, Province of Ontario, May 1973;
						#411, Manitoba Hydro Environmental Assessment, April 1975;
						#412, Ontario Hydro Transmission Line, Volumes 1 & 2
C-24	2461	Aug. 23	NB	Nahanni	NWT IB/MA	#C-184, map
C-25	2523	Sept. 8	FS	Casavant	Citizen	Exhibit C-189 - statement on present inadequacies in education program
	2556			Berger		Exhibit C-190 - submission by Father H.Posset; exhibit C-190-A - Labour Day message of Catholic Bishops of Canada
	2564			Ivans	Citizen	Exhibit C-191 - submission of Council of Fort Simpson
	2580			Casavant		Exhibit C-192 - submission by W. Casavant
	2583			Dean	Citizen	Exhibit C-193 - poem by E. Dean
C-26	2656	Sept. 9		Villeneuve	Citizen	C-194 submission by Theresa Villeneuve
	2661			Nahanni		C-195 submission by Phoebe Nahanni
	2669			Menicoche	Citizen	C-196 submission by Betty Menicoche
	2672			G. Antoine	Citizen	C-197 submission by Gerald Antoine
	2680			L. Menicoche	Citizen	C-198 submission by Lorayne Menicoche
	2712			Lamothe	Citizen	C-199 submission by Rene Lamothe
	2719			L. Antoine	Citizen	C-200 submission by Lester Antoine
C-27	2729	Sept. 10		Cummings	Citizen	C-201 submission by Maria Cummings
	2732			Hammond	Citizen	C-202 submission by Chris Hammond
	2745			Dodd	Citizen	C-203 submission by Al Dodd
C-28	2783	Sept. 10	Wr	H. Hardisty	Citizen	C-205 clipping re: Cominco and letter dated March 29, 1973

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	2808			Antoine	Citizen	C-207 Dene Declaration of Independence C-208 Minister's speech, September 10, 1975 C-209 statement by J. Antoine
	2812			Sale	Citizen	C-210 submission by Cecilia Sale
	2816			V. Hardisty	Citizen	C-211 submission by Violet Hardisty
	2817			R. Moses	Citizen	C-212 submission by Ruby Moses
	2820			M. Nayally	Citizen	C-213 submission by Martha Nayally
	2821			G. Nayally	Citizen	C-214 submission by Grace Nayally
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	2827			S. Horesay	Citizen	C-216 submission by Sarah Horesay
C-29	2869	Sept. 12	JMR	Antoine		C-217 Beaver pelt
	2879			Lafferty	Citizen	C-218 submission by Bill Lafferty
C-31	2982	Oct. 7	FR	Berger		Exhibit C-219 - submission by T. Beaulieu
	2996			Berger		Exhibit C-220 - submission by M. Beaulieu
C-32	3040	Oct. 8		Orbell	Citizen	C-221 Submission by R. Orbell
	3051			Beaulieu	Citizen	C-219-A Submission by T. Beaulieu
	3057			Turner	Citizen	C-222 Submission by A. Turner
C-33	3106	Oct. 9	FS	Kaeser	Citizen	C-224 Submission by Mayor and Town Council of Fort Smith
				Evans	Citizen	
	3162			Mercredi	Citizen	C-225 Submission by J. Mercredi
	3199			Christiansen	Citizen	C-226 Submission by I. Christiansen
C-34	3275	Oct. 15	YK	Duesterhus	Citizen	C-227 Submission by A. Duesterhus
	3319	Oct. 16		Loftus	Citizen	C-228 Submission by St. Pat's School
	3347			McRae	Citizen	C-229 Submission by Ed McRae
	3367			Watson	Citizen	C-230 Submission by Bill Watson
C-35	3422	Oct. 22	LI	Berger		Exhibit #C-231 - Task Force Report on Northern Business
C-36	3463	Jan. 28	In.	Berger		Exhibit #C-232 - submission by Hunters and Trappers Association of Inuvik
	3543	Jan. 29		Berger		Exhibit C-234 - submission by H. Sineok
C-38	3655	Feb. 12		Berger		Exhibit C-235 - booklet from COPE
C-39	3732	Feb. 18		Hill	Citizen	C-236 Submission by Inuvik and District Chamber of Commerce
	3739			Kisoun	Citizen	C-237 Submission by Northwest Territories Youth Council
	3791-92			V. Allen	Citizen	C-238 Land Use Map of Victor Allen
				C. Allen	Citizen	C-239 Land Use Map of Colin Allen
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112	17015	Jan. 20	IN	Ballem	GPC-D	#413, Qualifications of R. Horsfield #414, slides used by R. Horsfield
	17036-37					#415, Report on Mackenzie Delta Gas Development System Response to Information Concerns, July 20, 1975 #416, Maps of Seismic Lines, 1971-1975 Mackenzie Delta #417, Evidence of Dr. Bliss
113	17170	Jan. 21		Ballem		#418, Qualifications and evidence of C.W. Hobart
114	17279	Jan. 22		Ballem		#419, Qualifications and evidence of Mainland and Stewart #420, Information re land tenure agreement, Taglu gas development
	17360			Bayly	COPE/ITC	#421, Letter from Nortran to Noble and 2 telexes

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114	17360	Jan. 22	IN	Bayly	COPE/ITC	#422, "Geopressure Zones Thaw Challenge to Drillers ", by H. Heise, Dec.4/72
	17408			Ballem	GPC-D	#423, Imperial Oil Limited, land use application maps and correspondence
	17441			Ballem		#424, Qualifications and evidence of Faulkner and Serra #425, Niglintgak gas development project description
115	17479	Jan.23		Bayly		#426, Forestry Report, Volume 4
	17534-35			Ballem		#427, Qualifications and evidence of Scott, Stamberg, Guyn and Good #428, Parsons Lake development land tenure submission by Gulf Oil Canada Ltd.
116	17645	Jan.24		Ballem		#429, Qualifications and evidence of Appleton, Rempel, Webb, Wopnford
	17698			Ballem		#430, Imperial Oil Limited Environmental and Operational Seminars Field Services 1970-75
117	17758-59	Jan. 26		Ballem		#431, Summer Environmental Program, Mackenzie River Estuary, Volume I - Aquatic Studies, Volume II - Terrestrial Studies, Volume III - White Whale Studies, April, 1975, #432, White Whale Study, Herschel Island, Cape Dalhousie Coastal Region of the Beaufort Sea, February, 1974 #433, Environmental Impact Assessment, Innerk Artificial Island Construction Mackenzie Bay, NWT, Vol. II Environmental Studies, January, 1973 #434, Oil Spill Equipment Inventory #435, The Region Major Oil Spill Response Team of Imperial Oil Limited, 1975
	17833			Ballem		#436, Evidence of Sider, Tod and Wopnford
	17873			Ballem		#437, Gravel Inventory Survey, Richard Island and Adjacent Areas. J.D. Mollard and Associates, October 1972
119	18200	Jan. 28		Shaw	COPE	#438, Letter from Horsfield to K.P. Sam, December 20, 1974; #439, Qualifications and evidence of J.M. Shearer #440, Qualifications and evidence of D.R. Shaw
	18207			Pimlott	COPE	#441, Qualifications and evidence of D.R. Pimlott
120	18310	Jan. 29		Gouge	MVPI	#442, "Energy Under the Oceans", Kass, White and Others #443, "O.C.S. Oil and Gas - An Environmental Assessment", Volume I, April, 1974 #444, "Arctic Well Control Contingency Plan", January 1, 1973
	18334			Martell	COPE	#445, Qualifications and evidence of A.M. Martell
121	18402	Feb. 10		Grainger	COPE/ITC	Exhibit #446 - Qualifications and evidence of Dr. J.A. Percy; Exhibit #447, Qualifications and evidence of Dr. E.H. Grainger; Exhibit #448, Evidence of Dr. J.A. Percy
122	18488	Feb. 11		Carter	CAGPL	Exhibit #452, Consolidation filing and third amendment to application to N.E.B., D.I.A.N.D.; Exhibit #453, Consolidation filing - drawings
	18518			Bayly	COPE/ITC	Exhibit #454, Qualification and evidence of T.G. Smith
	18689			Bayly Gouge	MVPI	Exhibit #455, Qualifications and evidence of I.G. Sterling; Exhibit #456, 1975 white whale study by Slaney and Co. Ltd.

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	18752			Goudge		Exhibit #464, Qualifications and evidence of Yates, Elkin
124	18994	Feb. 13		Bayly		Exhibit #466, Qualifications and evidence of J. Shearer; Exhibit #467, Qualifications and evidence of C.P. Lewis; Exhibit #468, Qualifications and evidence of A.R. Milne
125	19142	Feb. 14		Bayly		Exhibit #469, Report on Shallow seismic survey on 3 areas of Mackenzie Delta, 1975; Exhibit #470, Qualifications and evidence of R.K. Pettigrew; Exhibit #471, Qualifications and evidence of N. Snow; Exhibit #472, Qualifications and evidence of W.S. Logan
126	19298	Feb. 16		Bayly		Exhibit #473, Pamphlet on national emergency equipment locator system; Exhibit #474, Guidelines on use and acceptability of oil spill dispersants; Exhibit #475, Review of petroleum spill containment dykes in the north; Exhibit #476, Pipeline spill reporting network; Exhibit #477, Threat preparedness chart
127	19314	Feb. 17		Bayly		#478, Oil Spill - Cumulative Impact, by Dr. Snow #479, "Oil Under the Ice", Pimlott, Brown and Sam
	19477			Bayly		#481, Qualifications and evidence of Hugh Monaghan #482, Qualifications and evidence of H. Trudeau
128	19478	Feb. 17		Bayly		#483, "The Effect and Fate of Crude Oil Spilt on Two Arctic Lakes" by N.A. Snow and B.C. Scott
	19605			Bayly		#484, Guidelines Relating to Geophysical Activities in the NWT #485, Letter from Martell to Commissioner #486, Oil, Ice and Climate in Beaufort Sea #487, Oil, Ice in Arctic Ocean #488, Oil Spills in Arctic Ocean #489, Comments by Canmar re Beaufort Sea #490, Offshore Drilling in Beaufort Sea #491, Qualifications and evidence of Speller #492, Qualifications and evidence of Inglis
130	19735-40	Mar. 16	YK	Marshall	CAGPL	#493, Letter from CAGPL to I. Scott re CAGPL plan refinements and maps dated March 8, 1976
	19793			Gibbs	Foothills	#494, Appendix "A" to Hollingshead's evidence #495, Revised Tables 1 and 2 and 3, Borrow requirements, Figures 1, 2, 3. Borrow deposits Mackenzie Delta #496, Report by N.E.S., Pipeline Related Borrow Studies, Cross-Delta alternative route and east of Fort Simpson realignment
131	19929	Mar. 17		Marshall		#497, Tables showing natural resource requirements for pipeline
133	20115-16	Mar. 23		Scott	MVPI	#498, Letter from Dr. Bliss, dated March 2, 1976; #499, Letter from B. Yates to J. Bayly dated March 11, 1976;

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	20141-42			Marshall		#502, University of Saskatchewan, Waste Heat Recovery Greenhouse Vegetable Production Project,-- Project Report, 1975; #503, Report, L.G.L. Ltd., Ornithological Studies, Cross-Delta route, supplement, Jan. 1976; #504, Fisheries Investigations of the Mackenzie Delta in the vicinity of the Cross-Delta Alternate Route. Preliminary Report. D. de Graaf & K. Mackniak, Aquatic Environments Ltd. Dec. 1975 #505, N.E.S. Progress Report on Rig Site Seeding Tests in the Mackenzie Delta Region, N.W.T. W.E. Younkin & H.G. Martens, Mar. 1976 #506, Recommendations to N.E.S. & Canadian Arctic Gas Study Ltd. from Aquatic Environments Ltd., Mar. 22, 1976
	20159			Marshall		#507, written material by Dr. P. Brodie
	20179					#509, Map figure 4, other geese distribution 1975 including whistling swans
134	20243	Mar. 26		Marshall		#510, Satellite Photos of warm water plume, July 17. 1975, and September 18, 1973
	20255-56			Bayly	COPE/ITC	#511, Letter from W. Vogl to G.R. Douglas, dated October 28, 1974
135	20413-14			Bell	NWT IB/MA	CAGPL's "Regional Socio-Economic Impact Statement" quoted to show relevance of COPE/ITC evidence
	20498			Marshall		#512, Report on pipeline noise study by P. Sidey #513, Flying Rules and Regulations, CAGPL
	20574			Marshall Scott	CAGPL MVPI	#514, Satellite photo with whale concentration area marked by Mr. Webb; #515, Qualifications and evidence of J.B. Sprague
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136	20611	Mar. 26		Scott		#517, Map showing DEW line route
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	20697-705			Peet	MVPI	Explanations of appendices of evidence
	20756			Peet		#522, Where to Now? Fisheries Development in N.W.T.
137	20770	Apr. 5		Bayly	COPE/ITC	#523, Evidence of Donald Mackay
	20791-92			Marshall		#524, Errata Sheet for Section 14-DN, Environmental Statement of Canadian Arctic Gas #525, Effects of Methanol on fertilization Process of Chum Salmon by Aquatic Environment #526, Progress Report on Effects of Methanol on Microflora of Arctic Soils #527, Progress Report on Tundra Rehabilitation Research by University of Alaska #528, Aquatic Environment's Report on Water Availability along Proposed Arctic Gas Pipeline from Prudhoe Bay to Mackenzie Delta #529, List of reports dated April 4, 1976
	20841			Goudge	MVPI	#530, North of 60 Vol.1 Summary of Proceedings of M.V.P.I.
	20879			Goudge		#531, Qualifications and evidence of D.H. Mossop #532, Qualifications and evidence of N.M. Simmons #533, Qualifications and evidence of W.J.D. Stephen #534, Qualifications and evidence of D.W. Norton
138	20919	Apr. 6		Goudge	MVPI	#535, Letter, Stephen to Allison re Migratory bird regulations and Sanctuaries in N.W.T., dated April 2, 1976 #536, Alignment Sheets re Foothills changes #537, Report "A History of Attempts to Commercially Fish the Mackenzie Delta"
	20962			Goudge		#538, Overlay of Dr. Norton
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139	21097	Apr.7		Bayly	COPE/ITC	Exhibit #545 - Letter dated August 13, 1974, from Imperial Oil Limited to DIAND re NETSERK artificial island and application for quarry permit, Garry Island
	21110			Bayly		Exhibit # 546 - Letter dated April 25, 1974 from C.S. Alexander to C.H. Templeton re prosecutions and convictions under the Fisheries Act, water pollution legislation and Canada Stripping Act
	21138-41			Bayly		Exhibit #547 - Report on Trans-Alaska Pipeline re planning for regulation of construction of a M.V.P.L., dated May 30, 1975; Exhibit #548 Report: Oil exploration and the Bankslanders. N.W. Simmons, T.W. Barry and a covering letter from J. Buchanan to S. Raddi dated April 23, 1975
	21198			Goudge		Exhibit #549 - qualifications and evidence of M.A. Heacock
	21250			Bayly		Exhibit #550 - Qualifications and evidence of C.W. Nicol
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142	21520	Apr.13		Steeves	CAGPL	#56, section 14 of CAGPL application
	21537-38			Virtue	NORTRAN	#561, "Northern Employment" #562, "The Task"
143	21750	Apr.14		Bell	NWT IB/MA	#563, Qualifications and evidence of G. Manuel #564, "The Fourth World", by G. Manuel
	21808			Bell		#565, Qualifications and evidence of Harold Cardinal #566, Qualifications and evidence of Father Rene Fumoleau #567, "As Lons as this Land Shall Last", Rene Fumoleau
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145	22091	Apr.26		Bell		#574, Qualifications of T. Clarke; W.Smith, T. Draimin, Fr. Lou Menez #575, Qualifications and evidence of Meyer Brownstone and Roger Rolfe
	22156			Bell		#576, "Falconbridge: Portrait of a Canadian Mining Multinational" #577, "Supysana: A Documentary Report on the Conditions of Indian Peoples in Brazil", November 1974 #578, "Brazil '75", November 1975 #579, "Native People in the Brazilian Amazon", April 1976 #580, "A Survey of Mineral Resource Extraction" #581, "Corporate Interests in Natural Gas Development" by Larry Pratt, January 18, 1976 #582, Annual report of Brascan, 1974; #583, Annual report of Brascan, 1973, #584, "A Church of the Amazon in Conflict with the Large Land holders and Social Marginalization"

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				Hollingworth		#588, Configuration indicating looping at typical joint between two spreads #589, Report "Winter Roads and Working Pads, Operations and Scheduling", November 1975
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	22487			Nahanni	NWT IB/MA	#601, Louis Riel's Petition of Rights, 1884, and List of Rights, 1870 #602, "The Mackenzie Valley Pipeline and Canadian Priorities" by R. Page, February 5, 1976 #603, Qualifications and evidence of P. Nahanni, W. Pellissey, F. Greenland, B. Menicoche and C. Snowshoe
	22536			Pellissey	NWT IB/MA	#604, Campsite map of Dene Land Use, Mackenzie District
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149	22811	May 3		Bell		#606, Qualifications and evidence of Donald G. Simpson
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151	23066-67	May 5		Veale	CYI	#608, Qualifications and evidence of Dr. William Irving #609, Recent Early Man Research in the North, W.N. Irving, 1971 #610, "Upper Pleistocene Radiocarbon Dated Artifacts from the Northern Yukon" W.N. Irving and C.R. Harrington, 1973 #611, Northern Yukon Research Program, University of Toronto #612, Northern Yukon Research Program, 1975-76 A. Director's Report B. Associate Director's Report of Field and Current Activities C. Northern Yukon Bibliography, 1974 D. Paleobotany, J.C. Ritchie and L. Cwynar E. Faunal Analysis, H.G. Savage #613, Northern Yukon Research Program Personnel #614, Northern Yukon Research Program, 1976-77 #615, Elements of Subsistence Systems of the Yukon Kutchin, R.D. McFee, Northern Yukon research, University of Toronto #616, Photos (3) of Klo-Kut site where road put through #617, Map: Prehistoric Sites
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	4928			Burrow	Citizen	#C-280, Concerned Citizen's Group of the Christian Churches of Chemainus
	4952			Geddes	Citizen	#C-281, Submission of Beatrice Geddes
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	5558			Willms	Citizen	#C-319, Submission of Reverend Glenn Willms
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	5591			McKenzie	Citizen	#C-321, Submission of the Edmonton Chamber of Commerce
	5600			Leadbeater	Citizen	#C-322, Submission of the Anglican Diocese of Edmonton
	5608			Berlie	Citizen	#C-323, Submission of E. Berlie
	5610			Rathbone	Citizen	#C-324, Submission by Diocese of Athabasca
	5617			Shirt	Citizen	#C-325A, Paper on Native Alcoholism Problems dated February 22, 1974 #C-325B, Report, "Alcohol and Health" by the U.S. Department of Health, Education and Welfare, first report dated December, 1971; second report dated June, 1974
	5623			Johnson	Citizen	#C-326, Submission of the Edmonton Committee of the Canadian Catholic Organization for Development and Peace
	5631			Manning	Citizen	#C-327, Brief of Slave Lake Developments
	5644			Swift	Citizen	#C-328, Submissions by S.T.O.P. and A.I.M.
	5653			Kuhn	Citizen	#C-329, Submission by K.C. Kuhn for Western Canada Synod, Lutheran Church of America
	5660			Dickinson	Citizen	#C-330, Submission by M. Kennedy #C-331, Submission by D. Goodhart #C-332, Submission of D.M. Dickinson

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	5649			Laboucane	Citizen	#C-334 , Submission by Metis Association of Alberta - A. Laboucane		
	5684			Schommer	Citizen	#C-335 , Submission of Immaculate Heart Parish - J. Schommer		
	5687			Somerville	Citizen	#C-336 , Submission by Alberta Northwest Chamber of Mines, Oils and Resources H.H. Somerville		
	5701			Leeson	Citizen	#C-337 , Submission by Alberta NDP - H. Leeson		
	5710			Bannister	Citizen	#C-338 , Submission by Inland Ocean Cement W.S. Bannister		
	5720			Starr	Citizen	#C-339 , Submission of C. Murray #C-340 , Submission by Peggy Robbins		
	5734			Robertson	Citizen	#C-341 , Submission of I.D. Robertson		
	5739-40			Stewart	Citizen	#C-342 , Submission of Ten Days for World Development #C-343 , Submission of Lethbridge Naturalists Society #C-344 , Submission of Mrs. Helen Schuler		
	5743			MacDonald	Citizen	#C-345 , Brief of K. Hostetler		
	5747			Spencer	Citizen	#C-346 , Submission by L. Spencer		
C-55	5763			May 18		Ryder	MVPI	#C-347 , 1,300 Names in Support of Moratorium #C-348 , Submission for Catholic Women's League, by Mrs. K. Charest
	5787					Ryder		#C-349 , Submission for R. Angus Ltd., by J. Barry
	5797					Ryder		#C-350 , Submission by Edmonton and District Council of Churches
	5804					Ryder		#C-363 , Submission by Edmonton Inner City Association
	5808					Ryder		#C-353 , Submission of Voice of Women
	5835-38	Ryder				#C-354 , Submission of Native Outreach		
	5845	Ryder				#C-352 , Submission of Mrs. S. Johnson		
	5853-55	Ryder				#C-356 , Submission of St. George's Anglican Church Study Group #C-357 , Submission by Mrs. O.A. Wiskel		
	5869	Ryder				#C-358 , Submission by J. McDougall		
	5875	Ryder				#C-359 , Submission by Student Christian Movement, by Miss L. Mulhall		
	5880	Ryder				#C-360 , Submission of Alberta Construction Association, by R.A. Steele		
	5907	Ryder				#C-361 , Submission of H. Cardinal		
	5913	Ryder				#C-362 , Submission of A. Moberly		
	5925	Ryder				#C-364 , Submission of M. Hepp #C-365 , Submission of Mr. and Mrs. F. Kiyooka		
	5934	Ryder				#C-366 , Submission of Miss B. Jahrig		
	5942	Ryder				#C-367 , Submission of Miss B. Farrell		
	5949	Ryder				#C-368 , Submission of T.M. Turner		
	5954	Ryder				#C-369 , Submission for Associated Engineering Services by A.E. Meyer		
	5964	Ryder		#C-370 , Submission for C.J.L. Foundation by K. Vandergrist				
	5969	Ryder		#C-371 , Submission for Alberta Roadbuilders Association by R. McFarland				
	5972	Ryder		#C-371 , Submission for Lutheran Student Movement by Eugene Ulmer				
	5982	Ryder		#C-373 , Submission for Chaplains' Association, University of Alberta by Reverend G. Mossman				
	5993	Ryder		#C-374 , "The Employment Impact of Oil And Natural Gas on Alberta, 1961-70"				
	5999	Ryder		#C-375 , Submission of L. Bujold				

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	6014-15			Ryder		#C-375, Submission of M. Heeks	
	6020			Ryder		#C-351, Submission of Edmonton Voters' Association	
				#C-377, Submission by L.V. Smith			
C-56	6033	May 19	REG	Waddell	MVPI	#C-382, Submission of The Saskatchewan Association of Human Rights	
	6036	May 18		Waddell		#C-383, Submission of Monica Schubert	
	6046		Waddell	#C-384, Submission of Department of Mineral Resources, Government of Saskatchewan			
	6050		Waddell	#C-385, Submission of Regina Committee of World Development			
	6053		Waddell	#C-386, Submission of Regina Chamber of Commerce			
	6056		Waddell	#C-387, Submission of the Federation of Saskatchewan Indians			
	6067		Waddell	#C-389, Submission of the Saskatoon Presbytery of the United Church of Canada			
	6074		Waddell	#C-390, Submission of the Saskatchewan Federation of Labor			
	6091	May 19		Waddell	#C-391, Submission of Group of Concerned Citizens in Saskatoon		
					#C-392, Submission of A. Taylor		
	6100		Waddell	#C-393, Submission of Mrs. M. Thield			
	6104-06		Waddell	#C-394, Submission of People of Sandy Bay, Saskatchewan by F. Tompkins			
	6123		Waddell	#C-396, Submission for Miller Comprehensive High School by Miss S. Dusel			
	6135		Waddell	#C-399, Submission of Saskatchewan Waffle Movement			
	6140		Waddell	#C-397, Newspaper Article, "Leader Post", May 10, 1976			
				#C-398, Submission of G.F. Ledingham			
	6143		Waddell	#C-400, Brief of Regina Committee for World Development			
	C-57	6154	May 20	WIN	B. Valentine	Citizen	#C-401, Submission of T.M. Beveridge
		6161			W. Norrie	Citizen	#C-402, Submission of T.E. Keyes
		6165			K. Johnson	Citizen	#C-403, Submission of Mrs. J. Klein
6170				N. Cogan	Citizen	#C-404, Submission of the Anglican Church of Canada, Diocese of Ruperts Land	
6177				S. Kuehn	Citizen	#C-405, Submission of the City of Winnipeg	
6178				R. Hill	Citizen	#C-406, Submission of Manitoba Naturalists Society	
6180				J. Willis	Citizen	#C-407, Submission of the Winnipeg Chamber of Commerce	
6193				A. Lansdown	Citizen	#C-408, Submission of Siegfried Kuehn	
6196				R. Roteliuk	Citizen	#C-409, Submission of Dominion Malting Limited - R.F. Hill	
6199				F. Bonokoski	Citizen	#C-410, Submission of Bestlands Group Limited - J. Willis	
						#C-411, Submission of the Manitoba Environmental Council - A. Lansdown	
						#C-412, Submission of the Central Plains Incorporated - R.N. Roteliuk	
						#C-413, Submission of the Congregation of Our Lady of the Missions - Sister F. Bonokoski	
6222				J. Ryan	Citizen	#C-414, Submission by J. Ryan	

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	6227			P. Young	Citizen	#C-417, Submission of Ladco Company Limited P.S. Young
	6243			M. Haave	Citizen	#C-418, Submission by Intercultural Development Education Association Incorporated M. Haave
	6247			A. Rathke	Citizen	#C-419, Submission of Greater Winnipeg Gas Company - A Rathke
	6251			H. Spence	Citizen	#C-420, Submission by H. Spence
	6255			Waddell	MVPI	#C-421, Telegram from Symposium on Native Employment #C-422, Letter from Lakeview Properties Limited
	6260			A. Spence	Citizen	#C-423, Submission of Ahab Spence
	6261			Waddell		#C-424, Submission from Easterville #C-425, Submission from Brian J. Katz
	6271			B. Teixeira	Citizen	#C-426, Submission of the Interchurch Task Force on Northern Flooding
	6272			Waddell		#C-427, Submission of Frank Cserepy #C-428, Submission of CUSO Urban Committee #C-429, Submission of Alliance Against Abortion
	6290			R. Johnstone	Citizen	#C-430, Submission of M. Rance #C-431, Submission of Prairie Environmental Defence League
	6302			B. Stearns	Citizen	#C-432, Submission by Winnipeg Civil Liberties Association - B. Stearns
	6306			Waddell		#C-433, Submission from Revolutionary Marxist Group
	6314			Berger		#C-434, Manitoba Anti-apartheid Coalition Submission
C-58	6330	May 25	TOR	D. Duncan	Citizen	#C-435, Submission of Trans Canada Pipeline Limited - Cameron and Duncan
	6336			R. Recollect	Citizen	#C-438, Submission of the Ontario Metis and Non-Status Indian Association R. Recollect
	6351			F. Fairchild	Citizen	#C-437, Submission by United Auto Workers F. Fairchild
	6354			Berger		#C-436, Submission by Father B. Massman
C-59	6397	May 26		Waddell	MVPI	#C-439, Submission by Pollution Probe M. Humel
	6402			Waddell		#C-440, Submission by Noranda Mines - A. Powis
	6407			Waddell		#C-441, Submission by Canadian Gas Association W.H. Dalton
	6418			Waddell		#C-442, Submission by Law Union of Ontario etal - N. Zlotkin
	6424			Waddell		#C-443, Submission by Ontario Chamber of Commerce - J.R. Meakes
	6430			Waddell		#C-444, Submission by Union Gas - R.G. Caughey
	6442			Waddell		#C-445, Submission by Ontario Federation of Labor - Miss S. Acheson
	6448			Waddell		#C-446, Submission of London Conference, United Church of Canada - Clarke and Wright
	6464			Waddell		#C-447, Submission by Communist Party of Canada - W. Kashton #C-448, Submission of S. Dewdney #C-449, Submission of Ruth Stewart #C-450, Submission of Kapuskasing Industrial Committee

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	6486			Waddell		#C-453, Submission of Ontario Chamber of Commerce - D. MacKay
	6503-04			Waddell		#C-452, Submission of Law Union et al - D. C. Matthews
	6517			Waddell		#C-455, Submission of People or Planes - C. Godfrey
	6526			Waddell		#C-454, Chart - M. Edwards
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	6542			Waddell		#C-457, Submission of Joyce Young #C-457, Submission of Spadina - Bloor - Bathurst Interchurch Council
	6554			Waddell		#C-459, Submission by Consumers Gas Company R.S. Lougheed
	6568			Waddell		#C-460, Submission of C.J.L. Foundation - Olthuis and Vandezande
	6571			Waddell		#C-461, Submission by Interchurch World Development Study Group - Q.Ferri
	6590			Waddell		#C-462, Submission by L. Little Bear
	6613			Waddell		#C-463, Submission of Core Committee for World Peace and Development - Miss M. Nichini
						#C-464, Submission of C.K. Kalevar
C-60	6625	May 27		Roland	MVPI	#C-466, Submission by Metropolitan Toronto Board of Trade, E.G. Burton
	6632			Roland		#C-465, Submission by National Citizens' Coalition - S. Band
	6645			Roland		#C-468, Submission by Native Canadian Centre, Loucks and Altman
	6656			Roland		#C-485, Submission of School Sisters of Notre Dame by Sister Corinne
	6680			Roland		#C-467, Submission of London and District Labour Council by E. Welsh
	6689			Roland		#C-471, Submission of London Association for International Development by J. Marshall
	6695			Roland		#C-472, Submission of Bishop Cronyn Memorial Church by J. Parker
	6703			Roland		#C-469, Submission by J.F. Hart
	6712			Roland		#C-470, Submission of Scarborough Foreign Mission Society by Father M. O'Kane
	6725			Roland		#C-473, Submission by Canadian Federation of Communications Workers, B. Mather
	6726			Roland		#C-474, Submission of Federation of Ontario Naturalists #C-475, Submission of J. Steele #C-476, Submission of D.P. Scott #C-477, Submission by G.L.T. Ellis #C-478, Submission by Bathurst Street United Church
	6727			Roland		#C-479, Submission by J.L. MacMartin #C-480, Submission by S. Godt
	6731			Roland		#C-481, Submission by W. Dunning
	6733			Roland		#C-482, Submission by Mr. and Mrs. Hardy
	6747			Roland		#C-483, Submission by Thornhill United Church, Mrs. Ross
	6766			Roland		#C-484, Submission of Labour Council of Metropolitan Toronto by S. Fox
	6768			Roland		#C-486, Submission of Canadian Association in Support of Native Peoples by H. McLean
	6771			Roland		#C-487, Submission by D. Campbell
	6777			Roland		#C-488, Submission of Newman Centre of Toronto by M. Arbour

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	6793			Roland		#C-490, Submission of Canadian Environmental Law Association by H. Mitchell				
	6798			Roland		#C-491, Submission of R.W.F. James #C-492, Submission of Sudbury Mines Mill and Smelter Workers Union				
	6799			Roland		#C-493, Submission of Toronto-Dominion Bank #C-494, Submission of L.C. Foster #C-495, Submission of Mrs. L. Foster				
	6803			Roland		#C-496, Submission of Group of Concerned Citizens of Guelph Community				
	6806			Roland		#C-497, Submission by M. Wilkinson				
	6815			Roland		#C-498, Submission of Ten Days for World Development by Sister Michael				
	6827			Roland		#C-499, Submission by Outreach and Action Committee of St. Matthews United Church, H. Fronius				
	C-61			6834		May 28		Roland		#C-500, Submission by Miss L. Pim
				6837				Roland		#C-501, Submission of Ministry of Energy, Province of Ontario by H.F. Button
6845		Roland	#C-503, Submission of Ontario Federation of Students by P. Lane							
6849		Roland	#C-502, Submission of Voice of Women by D. Elliott							
6851		Roland	#C-504, Submission by F. Overden							
6859		Roland	#C-505, Submission of Office and Professional Employees International Union by P. Park							
6860		Roland	#C-506, Submission of Irene Stein							
6869		Roland	#C-507, Submission of Sisters of St. Joseph by Sister M. Alban							
C-62	6888	May 31	MTL	Poirier	Citizen	#C-508, Submission of Sabaskong Band by P. Kelly				
	6906			Ciaccia		#C-509, Submission of Quebec Chamber of Commerce				
	6919			Delisle		#C-510, Submission by J. Ciaccia				
	6929			Perras		#C-511, Submission of Helen Silverman				
	6947			Ponting		#C-512, Submission by Sidbec - Dosco Limited				
C-64	7206	June 3	OTT	Amagoalik	COPE/ITC	#C-513, Submission of J. Ponting				
	7233			Hatton		#C-543, Submission of the Inuit Tapirisat of Canada - J. Amagoalik				
	7236			Watton		#C-544, Submission by Project North - Rev. Russell Hatton				
	7243			Proulx		#C-545, Submission of Archbishop James A. Watton				
	7245			Sarpei		#C-546, Submission of Adolphe Proulx				
	7253			Birnie		#C-547, Submission by World Council of Churches, Habitat Conference				
	7266			Mosquin		#C-548, Submission by Industrial Gas Users Association - A.W. Birnie				
	7275			Hollingworth		#C-549, Submission of Canadian Nature Federation - T. Mosquin				
	7284			Brabozon		#626, Remarks by K. Gibson of Westcoast Transmission re Land Claims				
	7294			Bregha		#C-550, Submission by Civil Liberties Association - C. Brabozon				
	7298			Roman		#C-551, Submission by Canadian Wildlife Federation - F.J. Bresha				
	7317			Maxwell		#C-552, Submission by Canadian Association in Support of Native Peoples - A. Roman #C-553, CASNP Report re Native Land Claims Settlements #C-554, Submission by Canadian Catholic Conference - G. Maxwell #C-555, Feedback Project, Canadian Catholic Conference				

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	7348			Seaborn Van Den Heuvel	Citizen Citizen	#C-557, Submission of YWCA Cross-cultural society - D. Seaborn and S. Van den Heuvel
	7348			Seaborn Van Den Heuvel	Citizen Citizen	#C-558, Submission of Britannia United Church Study Groups
	7364			Roland	MVPI	#C-559, Submission by Rev. S. Sommerville
C-65	7385	June 4		J. Shephard R. Voyer	Citizen Citizen	#C-560, Submission by Science Council of Canada - Shephard & Voyer
	7388			J. Lapointe	Citizen	#C-570, Submission of World University Service of Canada - J. Lapointe
	7389			L. Jordan	Citizen	#C-561, Submission by Parish of St. John the Divine - Mrs. L. Jordan
	7403			L. Newell	Citizen	#C-562, Submission by Solar Energy of Canada - L. Newell
	7411			C.J. McGee	Citizen	#C-563, Submission by Canadian Council of Professional Engineers - C.J.McGee
	7413			Waddell	MVPI	#C-564, Submission of Ms. Kahn - Tineta Horn Miller
	7418-19			Anagood Waddell	Citizen	#C-568, Submission of National Association of Friendship Centres - Del Anagood, Roger Obonosowin, Yvonne Allen Kisoun #C-565, Submission of L.A.C.O. Hunt #C-566, Submission of Paul McRae, Member of Parliament
	7430			T. Hills	Citizen	#C-567, Submission of Oxfam - Canada - Theo Hills
	7448			J. Thompson	Citizen	#C-571, Submission by Bell's Corners United Church - J. Thompson
	7460			K. Reitan	Citizen	#C-572, Submission by Kai Reitan
	7467			H.L. Pottle	Citizen	#C-573, Submission by Ten thousand Days - Dr. H.L. Pottle
	7481-83			F. Jobin	Citizen	#C-574, Submission by Native Council of Canada #C-575, Submission of the National Union of Students #C-576, Submission of Edith L.L. Whetung
	7491			S. Leggatt	Citizen	#C-577, Submission of New Democratic Party - Stuart Leggatt
	7499			B. Shead	Citizen	#C-578, Submission of Bill Shead
	7501			A.G. Salvin	Citizen	#C-579, Submission of Alan G. Salvin
	7505			D.B. McLay	Citizen	#C-580, Submission of the Ecumenical Citizen's Group - D.B. McLay
	7509			W. Wilkinson	Citizen	#C-581, Submission of the Pastoral Council, Archdiocese of Kingston - W. Wilkinson
	7512			A. Studd	Citizen	#C-582, Submission of the Anglican Church of Canada, Diocese of Ontario - Mr. & Mrs. Studd
	7520			Father K. Doe	Citizen	#C-583, Submission of the Native Affairs Group, Father K. Doe
	7527			Waddell	MVPI	#C-584, Submission of Sally Bouchan #C-585, Submission of A. Michrowski
	7542			H.T. Schwarz	Citizen	#C-586, Submission of Dr. Herbert T. Schwarz
	7548			S. Loewen	Citizen	#C-587, Submission of Susanne Loewen et al
	7550			M. Christie	Citizen	#C-588, Submission of Trinity United Church - Mabel Christie
	7565			F. Manitowabi	Citizen	#C-589, Submission by Newbery, Dumont, Manitowabi and Solomon
	7569			E. Sutherland	Citizen	#C-590, Submission of Westboro United Church - Dr. E. Sutherland
	7574			D. Oulton	Citizen	#C-591, Submission of Doris May Oulton #C-592, Submission of United Church of Canada, Ottawa Presbytery - World Outreach Committee #C-593, Submission of the Voice of Women #C-594, Submission of Michael Bein

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	7586			G. Swinton	Citizen	#C-596, Submission of George Swinton #C-597, Submission of Latin American Working Group #C-598, Submission of Grace R. Stevenson
C-66	7606	June 7	CH	Roland	MVPI	#C-599, Submission of Anglican, Roman Catholic, Presbyterian and Christian Reform Churches of PEI, by D. Coffin, R. Tuck
	7612			Roland		#C-600, Submission of Social Action Commission, Roman Catholic Diocese of Charlottetown by Boyd, MacDonald
	7619			Roland		#C-603, Submission of Rural Development Council of PEI - MacDonald and Mutch
	7628			Roland		#C-601, Submission of Latin American Mission Program by Sister M. Burge
	7632			Roland		#C-602, Submission of Help Our Provincial Environment by G. Cannon
	7635			Roland		#C-604, Submission of Catholic Family Services Bureau by A. Campbell
	7643			Roland		#C-605, Submission of PEI Association of Metis and Non-status Indians by Mrs. P. Rydzewski
	7645			Roland		#C-606, Submission of Council of Religious Sisters of the Diocese of Charlottetown by Sister P. Oulton
	7650			Roland		#C-607, Submission of Canadian Catholic Organization for Development and Peace
C-67	7675	June 8	HAL	C. Mooney	Citizen	#C-608, Submission of the Maritime Conference, United Church of Canada - C. Mooney
	7686			J. Lotz	Citizen	#C-609, Submission of Jim Lotz
	7689			L. Kasdan	Citizen	#C-610, Submission of the Dalhousie Faculty Association - L. Kasdan
	7694			R. Hindson	Citizen	#C-611, Submission of Cansteel Corporation
	7715			K. Skerrett	Citizen	#C-615, Submission by Miss K. Skerrett
	7722			R. Gregoire	Citizen	#C-612, Submission by Naskapi - Montagnais Innu Association of Labrador
	7730			P. Keddy	Citizen	#C-613, Submission by Halifax Field Naturalists - P. Keddy
	7741			Waddell	Citizen	#C-614, Submission of W. Poole
	7767			S. Johnson	Citizen	#C-616, Submission of Union of Nova Scotia Indians - Stanley Johnson
	7774-75			G. Yetman Waddell	Citizen MVPI	#C-617, Submission of Nova Scotia Federation of Labour - Gerard Yetman #C-618, Submission of Mr. G. Gibbons #C-619, Submission of Industrial Cape Breton Council of Churches
	7781			A. Ottow	Citizen	#C-620, Submission of Pollution Probe, Moncton, New Brunswick - Anne Ottow
	7787			G. Nicholas	Citizen	#C-621, Submission of the Union of New Brunswick Indians - Graydon Nicholas
	7798			S. Mayo	Citizen	#C-622, Submission by Ecology Action Centre - Miss S. Mayo
	7804			E. Beale	Citizen	#C-623, Submission by Voice of Women - Miss E. Beale
	7822			Waddell	MVPI	#C-624, Submission by Halifax Welfare Rights - Miss G. Knight #C-625, Submission by Anglican Church, Diocese of Nova Scotia #C-626, Submission of Development and Peace, Atlantic Region #C-627, Submission of Halifax Citadel N.D.P.

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154	23573	June29	YK	Bell	NWT IB/MA	#627, Qualifications and Evidence of P. Puxley #628, Qualifications and Evidence of M. Watkins
155	23791	June30		Bell		#629, Qualifications and Evidence of A. Forrest
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	23862			Jelliss		#631, "Some Aspects of the Political Economy of the Mackenzie Land Claim", A.D. Jelliss #632, "Estimates of Past and Future Rent and Rent Distribution Associated with Currently Operating Mines in the Northwest Territories" #633, "Estimates of Past and Future Rent and Rent Distribution Associated with the Production of Crude Oil at Norman Wells, Northwest Territories" A.D. Jelliss, August, 1975 #634, "Estimates of Past and Future Rent and Rent Distribution Associated with the Production of Natural Gas at Pointed Mountain", A.D. Jelliss, December, 1975
156	23990	July1		Goudge	MVPI	#635, Qualifications and Evidence of Steve Kakfwi #635, Qualifications and Evidence of Bob Overvold #637, Qualifications and Evidence of Ethelow Yazzie #638, Qualifications and Evidence of Bernard C. Gillie #639, Annual Report of the Tripartite Education Committee #640, Tripartite Committee Report on an Ordinance Respecting Education in the NWT 1976
157	24020	July 5		Thompson	NWT IB/MA	#641, Qualifications and evidence of A.R. Thompson
	24066			Hobart	CAGPL	#642, Qualifications and evidence of Dr. Charles Hobart
	24127			Steeves	CAGPL	#643, Testimonial Qualifications of Canadian Arctic Gas, Phase IV, Panels 1 to 3
158	24240	July 6		Steeves		#644, Letter from June Helm, May 24, 1976 #645, Letter from J. Savishinsky to M. Asch, June 7, 1976 #646, Letter from D.M. Smith to M. Asch, June 9, 1976 #647, Report on Subsistence and Conservation of Yupik Lifestyle, December 1974
	24266			Steeves		#648, Review of Socio-Economic Studies undertaken by CAGPL, W.B. Trusty
159	24303	July 7		Steeves		#649, Impacts of the Alyeska Project in the Context of Alaska Socio-Economic Environment by Boorkman and D. Weinstein #650, Relating Alaska Experience to NWT and the Arctic Gas Project
160	24621	July 8		Bell	NWT IB/MA	#651, Addendum to submission of M. Asch #652, Statement of M. Asch re Hobart's testimony
161	24830	July 12		Steeves	CAGPL	#653, Employment: Panel 3 #654, "Regional Impact of a Northern Gas Pipeline" Volume 6, Feb. 1974 #655, "Evaluating Country Food in the Native Economy" by P.J. Usher #656, "Historical Statistics Approximating Fur, Fish and Game Harvests within Inuit Lands" by P.J. Usher #657, "Eskimo Land Use and Occupancy in Western Arctic" by P.J. Usher

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	25049-50			Steeves		#659, Strathcona Sound Agreement between Her Majesty the Queen and Mineral Resources International Limited, 1974 #660, Other Construction Phase Impacts, Submitted by W.B. Trusty and Dr. C. Hobart
163	25099-100	July 14		Steeves		#661, "Final Report of work and Transportation Equipment" by CAGSL, J.E. Rymes Engineering #662, "Historical Activity Data, Mackenzie Valley Corridor", Avcon Aviation Consultants #663, "Outline of Environmental Monitoring Program" by N.E.S. #664, "Northern Yukon Research Program Report of Activities" #665, "Proposed Archaeological Salvage Program" CAGPL #666, "Arctic Oil Spill and Toxic Material Contingency Plan", CAGSL #667, "Northern Staging Area Report," CAGPL #668, "The Control of Hazardous Substances During the Arctic Gas Project," CAGSL
165	25561	July 19		Hollingworth	Foothills	#669, Qualifications and evidence of Burrell, Ellwood, Jensen and MacLeod
	25643			MacQuarrie	MHA/NWT	#670, Planning Community Health Services in Arctic Canada by Michael Dear, dated January 1976
166	25729	July 20		Hollingworth	Foothills	#673, Table IV, "Northwest Territories Infant Mortality Rate per 1,000 Live Births"
	25854			Usher	COPE/ITC	#674, Qualifications and Evidence of Messrs. Brody and Beakhust #675, "Industrial Impact" by H. Brody #676, "The Traditional Economy of the Western Arctic" by P.J. Usher
167	25884	July 21		Bayly	COPE/ITC	#677, Overview Evidence of H. Brody #678, Overview Evidence of P.J. Usher
	25943			Beakhust	COPE/ITC	#679, Overview Evidence of Grahame Beakhust, Panel 2
168	26172	July 22		Brody		#680, "Alcohol", by H. Brody
169	26261	July 23		Stanley	NWT IB/MA	#681, Qualifications and Evidence of S. Stanley
	26325			T'Selele	NWT IB/MA	#682, Letter from C. Hobart to J. Steeves dated July 19, 1976 #683, Qualifications and Evidence of R. Ruttan
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171	26516	Aug 17		Hollingworth Bayly	Foothills COPE/ITC	#685, 4 Volumes Biological Field Program Report, 1975, Lombard North
						#686 Revised Part III of Foothills Construction Plan
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	26607			Dixon	MVPI	#688, Evidence of Dr. M. Dixon
172	26793-A	Aug 18		McDiarmid	Citizen (COPE/ITC)	#689, Qualifications and Evidence of H.C. McDiarmid
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173	26923-24	Aug 19		GoUDGE	MVPI	#692, Imperial Oil Memo, G. Rempel to G.G. Mainland, Feb. 4, 1976
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						#699, Letter, C.B. Virtue to Commission Counsel June 30, 1976
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						#703, Mackenzie Valley Pipeline Community Impact Study, December 1975
174	27150-51	Aug 20		Hollingworth	Foothills	#704, Progress Report - Thermal Analysis of Pipe Insulation. E.B.A. Engineering Consultant Limited. July 19, 1976
						#705, "Report on the Proposed Construction of a gravel work pad spread no. 1AF", July, 1976
						#706, "Determination of Various Parameters for the Evaluation of Warm-Water Hydrostatic Testing"
						#707, "Hydrostatic Test Using Methanol Water Mixture". June, 1967
175	27222	Aug 23		Searle	NWT/CC	#708, Qualifications and evidence of J.B. MacLeod
						#709, Qualifications and evidence of B.J. Ashton
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177	27507-09	Aug. 25		Sigler	NWT/AM	#714, evidence and qualifications of E. G. Wood #715, NWT Power steering Committee re NWT N.C.P.C. Electric Rate Increase Proposal #716, Public Utilities Board Report on Rates proposed by N.C.P.C. #717, NWT Power Steering Committee submission to Standing Committee on Indian and Northern Affairs, May 1976 #718, Minutes of Proceedings of evidence of Standing Committee #719, NWT Power Steering Submissions to Council of the NWT re Proposed Rate Adjustments May, 1976 #720, Letter from Minister of Indian and Northern Affairs to the Power Steering Committee
	27573			Sigler		#721, Qualifications and Evidence of G. Galloway #722, Qualifications and Evidence of P. Shaverte #723, Qualifications and evidence of B. Purdy #724, Letter from NWT Association of Municipalities to NWT Commissioner
178	27574	Aug. 26		Hollingworth	Foothills	#725, "Warm Water Testing Spread No. 5, M.V.P. by Foothills
	27578-79			Scott	MVPI	#726, Qualifications and evidence of J. Merrett and R. Pritchard
	27578-79			Scott		#727, "Effect of Changing the Duration of Pipeline Construction on selected variables, MPS Associates, Fed. 1976.
	27695					#728, Qualifications and evidence of Lowing and Runge #729, Brief re housing in Mackenzie Valley and Great Slave Region, Aug. 1976.
180	27863-69	Sept 7		Berger		#731, Evidence of the Canadian Pipeline Advisory Council #732, Evidence of United Association of Plumbers and Pipefitting Union #733, Evidence of Canadian Pipeline Advisory Council Rules of Procedure #734, Evidence of Pipeline Construction Training Assessment #735, Evidence of Pipeline Camp Standards #736, Evidence of Pipeline Requirements for Northern Work #737, Evidence of Premier of Pipeline Construction
181	28234	Sept 8		Goudge	MVPI	#738, Letter from Sam Raddi to Unions #739, Cost Comparison Between Warm Water and Methanol Water Testing #740, Responses to Municipalities re Gas to Northern Communities #741, Evidence of Building Trades Councils #742, Evidence of the Canadian Labour Congress
182	28399	Sept 9		Bayly	COPE/ITC	#743, Evidence of NWT Labour Co-ordinating Committee #745, Qualifications and evidence of John K. Clayton #746, Qualifications and evidence of Jack McCombs #747, Qualifications and evidence of Terry Forth #748, Qualifications and evidence of Louise Clarke
183	28417	Sept 10		Sigler	NWT/AM	#749, Draft River Water Intake Predesign Study - Fort Simpson #750, Planned Townsite Expansion and Waterworks and Sewerage-Fort Simpson, Strong, Lamb, and Nelson, Ltd.

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184	28468	Sept. 14		Bayly	COPE/ITC	#759, Qualifications and evidence of A. P. Abbott #760, Qualifications and evidence of J.P. Kehoe
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	28663			Hildes	COPE	#764, Qualifications and evidence of John T. Mayhill #765, Evidence of Gaile Noble
	28669-70			Hildes		#766, Presentation on Health Care, Inuvik Region - January 21, 1975, COPE #767, Residents Perceptions of Health Delivery Systems in Six Settlements by George Wenzel #768, Letter of January 20, 1976, to Honourable Marc Lalonde from physicians at Charles Camsell #769, Qualifications and evidence of Dr. J.A. Hildes #770-A, Health of Inuit of Northern Foxe Basin by Hildes, Schaefer, Ellestad - Sayed #770-B, University of Manitoba Medical Journal, 1975, Churchill Health Conference #770-C, Health Care Delivery in Labrador compared with NWT - J.A. Hildes #770-D, McGill Medical Journal, P.P. 30-37 #771, Qualifications and evidence Dr. E. Cass #772, Transparencies in support of Dr. Cass's evidence
186	28872	Sept. 16		Scott	MVPI	#773, Resumé of F.C. Basham's evidence #774, Resumé of G. Braden's evidence
	28907			Bayly	COPE/ITC	#775, Letter to I. Scott from J.B. Macleod, September 7, 1976 #776, Delta Regional Development, I, by Manforce Research Associates #777, Delta Employment Development, II, by Manforce Research Associates #778, Mackenzie River Valley Transportation submission, September, 1976 #779, Qualifications, evidence, D. Snowden
	28911-A			Bayly		#780, Qualifications, evidence, R. Currie
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	30062			Goudge		#827, Native Peoples and Languages of Alaska - map #828, Qualifications and evidence of Dr. Michael Krauss #829, Evidence of John T. Ritter #830, Mayo Indian Language - Noun Dictionary #831, Loucheux Athabaskan Noun Dictionary
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194	30411	Oct. 6		Sigler Steeves	NWT/AM CAGPL	#838 - qualifications, evidence of T. Butters #839 - evidence of R.A. Hemstock
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195	30462	Oct. 7		Hollingworth	Foothills	#841 - qualifications, evidence of Mirosh, Kosten, Byers #842 - Thermal analysis of gravel pad by EBA Engineering Consultants #843 - Warm water testing, spreads #844 - Environmental implications of Foothills project amendments
	30523			Hollingworth		#845 - Article: Pipeline Industry Magazine, August, 1976, "Arctic Constructors ... 209 miles Prudhoe Bay southward over the rugged Brooks Range
	30545			Hollingworth		#846 - Temperature charts, Inuvik 1970-1974, Tuktoyaktuk 1970-1974; #847 - chart, cooling power of wind expressed as "equivalent chill temperature "
	30647			Marshall	CAGPL	#848 - qualifications, evidence of Johanson, Fowler, Walker, Daniels, Rymes, Dau #849 - Appendix to testimony of Dau #850 - Transcript of proceedings, NEB, Sept. 8, 9, 10, 1976 #851 - Summary sheets
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	31116			Scott		#870 - Report, Environmental Compliance and the Public Interest During Construction of the Trans-Alaska Pipeline, G.M. Zemansky, Sept. 1976 #871 - Statement of Undersecretary Kent Frizzell
	31154			Scott		#872 - qualifications, evidence of M. Rogol #873 - Annual Report, 1975, State of Alaska
198	31222	Oct. 14		Witty	MVPI	#874 - Letter dated Sept. 28, 1976 from Sam Stanley to the Commissioner with papers: Toward Economic Development for Native American Communities, U.S. Congress, Vol. 1, Development Prospects and Problems
198A	31433	Oct. 14		Scott		#875 - qualifications, evidence of Mrs. Christie #876 - qualifications, evidence of E. Nicholson #877 - qualifications, evidence of E. Schulz
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	31636			Genest	CAGPL	#891 - Submission of Canadian Arctic Gas
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	31850A			Templeton	EPB	#893 - submission by C. Templeton
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	32015			Anthony	CARC	#898 - Submission and recommendations of CARC #899 - Northern Assessment Group material #900 - List of participants
203	32121	Nov.18		Veale	CYI	#901 - Letter from D. Johnson
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C-39	3778-29	Feb. 10	IN	Hill	Citizen	Suggestion for NWT Credit Bureau and bid depository; small business loan fund, Federal Business Development Bank
C-54	5583-84	May 17	EDM	Cavanagh	Citizen	Edmonton, facing stringent financial times, government should provide assistance to growth areas
166	25687-88	July 20	YK	MacLeod	Foothills	Local banks to be set up where there are non-local, native organizations; financial counselling
175	27244-53	Aug 23		Ashton	NWT/CC	Frequent change of bank managers in NWT communities; inexperience with commercial finance; regional offices' unfamiliarity with northern development; bonding; credit unions; Bank Act amendment; government loan funds, Federal Business Development Bank, problems with loans officers; Territorial Government Loan Funds; mortgage funding; Crown corporations
	27304-12			Ashton Hinchey MacLeod	NWT/CC NWT/CC	Flying in bank in Delta area; training for managers re northern finance, business problems; educating the consumer; managers' length of stay in community, rapid turnover; approvals from Regional Office
181	28050	Sept 8		McCambly	MVPI	Provision called for in collective agreements
197	31002-04	Oct. 13		Bergasse	MVPI	Improved financial services in NWT demanded; limited capacity of banking system; credit union movement is not expandable; money order services by post offices; disreputable fly by night savings and loan companies

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XXXVIII	4827-28	May 14		Bayly	COPE/ITC	Burning of brush piles; ground cover
	4986-91			Williams	CAGPL	Stumps removed along pipeline during winter; burning/chipping
46	6104	June 2		Templeton	EPB	Severe potential impact from surface disturbance
	6141			Bliss	EPB	Chipping and burning, use of sleds
67	9839-42	Sept. 23		Mirosh	Foothills	Use of wood chippers or burning sleds
70	10052-53	Sept. 26		Longlitz	MVPI	Disposal of cleared vegetation and timer; grabbing area; burning of vegetative mat
79	11700	Nov. 3		Minning	CAGPL	Slash to be burned according to regulations and fire safety
80	11939-41	Nov. 4		Williams		Timber to be burned unless merchantable
86	12947-48	Nov. 13		Vaartnou	Foothills	Burnt slash ashes as fertilizer, revegetation
90	13682-93	Nov. 17		Dabbs Hemstock	CAGPL CAGPL	Most timber will be utilized; use of ash as fertilizer
	13726			Hemstock		Fire may get down into organic mat and overwinter
132	20152	Mar. 18		Williams		No burning of slash after hand clearing in summer
193	30086-87	Oct. 5		Hernandez	EPB	Burning of slash on ground - only when area is to be dug-up subsequently; otherwise burning sleds should be used; development of fire contingency plans

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XXXIX	5145	May 15	YK	Harlan	CAGPL	Fire breaks for windrows used for erosion control
40	5260-62	May 16		Hurd	CAGPL	Crossing ROW, fire extinguishers; line patrol watching for non-pipeline fires as well
42	5400-07	May 21		Hurd		Pipeline initiated fires
46	6047-48	June 2		Templeton	EPB	Effect on vegetation
	6075			Craik	EPB	Report #3 appendix VII impact assessment
	6139-42			Bliss	EPB	Potential destruction of vegetation
47	6218-19	June 3		McT-Cowan	EPB	Habitat alteration, recommendation
48	6416-17	June 4		Bliss		Fire contingency plans sec 25 of Code

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C-11	1026	July 8	F. McP.	M. Firth	Citizen	Pipeline and environmental damage
	1044-45			J. Blake	Citizen	Question re: who will bear cost to fight fire
C-14	1275-76	July 11	O.C.	P. Nukon	Citizen	Wood very important to people of Old Crow
C-16	1517-18	July 13		J. Tizya	Citizen	Started from cigarettes
55	7616	Aug. 15	WH	Hughes	CARC	Fires stimulated by removal of the insulating organic cover, earth slides and thaw flow slides
C-18	1787-88	Aug. 5	FGH	F. Rabisca	Citizen	Danger to the pipeline
C-20	1928	Aug. 7		G. Shae	Citizen	Fear of damage to animals on which community subsists
	2032-33			J. Grandjambe	Citizen	Nature of forest fires; impact of pipeline
	2046			W. Kelly	Citizen	Decrease in forest resources
	2051			T. Kakfwi	Citizen	Underground fires - impact on pipeline
76	11260	Oct. 21	YK	Weedon	CARC	Increased activities of humans in the forested and partly forested regions, lead to increase in fire
86	12946-48	Nov. 13		Vaartnou	Foothills	Effects on revegetated areas
90	13693	Nov. 19		Bayly	COPE/ITC	Permafrost table degradation, recovery
	13723			Dabbs	CAGPL	As natural component of landscape
C-26	2633	Sept. 9	FS	Sanguiez	Citizen	Concern re: effect of forest fire on pipeline
	2713			A. Nahanni	Citizen	Summer bush fires re: destruction of land
C-28	2815	Sept. 10	Wr	V. Hardisty	Citizen	Impact of pipeline explosion
C-29	2859	Sept. 12	JMR	Sanguiez		Safety of pipeline
C-33	3207	Oct. 9	FS	Lisk	Citizen	Traplines destroyed by pipeline rupture, forest fire; compensation
112	17044-49	Jan. 20	IN	Bliss	GPC-D	Frequency in open forest, forest tundra Delta area; effects on vegetation; Inuvik area, report by Hernandez; fire-carrying potentiality, different vegetation types; fire on tundra, plant recovery
C-47	4558-59	Mar. 13	ARR	Berger		Leak in gas pipeline might trigger forest fire
C-48	4753-54	Apr. 30	FS	F. Paulette	Citizen	Burning wasteland that is valuable to Dene; southern fire-fighters used and not natives
C-71	8019	Aug. 10	RE	E. Lafferty	Citizen	Possibilities of forest fire, if pipeline
C-72	8092	Aug. 11	RE	A. Lisk	Citizen	Hunting grounds destroyed in forest fires; fear of pipeline burning in fire
	8142			N. Football	Citizen	Danger of forest fire near pipe
	8150			P. Huskey	Citizen	How they start; impact on land and way of life
C-73	8185-86	Aug. 12	LLM	P. Beaverho	Citizen	Destruction caused by fire; danger of pipeline near fire
	8234-35			M. Nitsiza	Citizen	Dene accused of being careless with fire
C-74	8255	Aug. 13	RE	B. Apple	Citizen	Due to pipeline, effect on natives
	8275			P. Apple	Citizen	If pipeline breaks
C-75	8334	Aug. 21	CL	C. Cuzon	Citizen	Will Cause pipeline to explode
	8337			C. Cuzon	Citizen	Will blow up pipeline, end of NWT
C-76	8371-73	Aug. 25	DET	I. Isetta	Citizen	Will get pipeline; animals will migrate
	8375			M. Noel	Citizen	More since development
	8382-84			J. Martin	Citizen	Effect on hunting, kill animals; little prevention and control; effect on pipeline
C-77	8429-30	Aug. 26		H. Tobie	Citizen	Could affect gas line, government does not provide money to control
193	30088	Oct. 5	YK	Hernandez	EPB	Develop contingency plans to extinguish fires started by project activities

FIRE - PIPELINE OPERATION

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XXXII	4061-62	Apr. 18	YK	Purcell	CAGPL	Gas released due to rupture will ignite and burn
40	5220	May 16		Hurd	CAGPL	Fire detection, extinguishing system
	5259-62			Hurd		Emergency procedures; fail safe compressor stations
42	5398-5407	May 21		Hurd		Fire spreading from pipeline to other areas
	5468-72			Scott	MVPI	On-the-line fires, compressor station fires
46	6139-42	June 2		Bliss	EPB	Potential destruction of vegetation
C-11	1031-45	July 8	F. McP.	J. Blake	Citizen	Escaping gas from pipeline break could ignite
C-13	1262	July 10		J. Charlie	Citizen	Piling needed; brush left will be a hazard
C-14	1276	July 11	O.C.	P. Nukon	Citizen	Need for CAGPL to have own fire fighters
	1349-51			E. Smith	Citizen	Patrolling the pipeline
C-16	1480	July 13		R. Bruce	Citizen	Might cause forest fire
	1493-1501			Rowe	CAGPL	Time needed to shut off gas if fire started
C-22	2250-53	Aug. 11	WH	T. Nairn	Citizen	Fires at construction camps
62	8854-59	Sept. 16	YK	Mirosh	Foothills	Block valves and use in case of fire; prevention of the extent of a fire; location of fire; looping; AGTL use of block valves
63	9036-37	Sept. 17		Lazerte	Foothills	Water requirements at compressor sites for fire prevention & control, knowledge of fire regulations in NWT
	9138			Shelton	Foothills	Fire often occurs with a rupture
80	11785	Nov. 4		Dabbs	CAGPL	Combustibility of dead grass on right of way
81	11995-12000	Nov. 5		Williams	CAGPL	Contingency plans
82	12264-65	Nov. 6		Williams		Forest fires causing problems to pipeline
90	13724-27	Nov. 19		Hemstock Dabbs	CAGPL	Increased risks due to pipeline, contingency plans, fire overwintering after slash burning
115	17498-99	Jan. 23	IN	Faulkner	GPC-D-S	Niglintgak gas field, fire after gas line rupture
118	18017-23	Jan. 27		Bayly Motyka Horsfield	COPE/ITC GPC-D-G GPC-D-I	Hydrate fires at Reindeer F-36, Kumak K-09, Tiktalluck K-26, prevention monitoring

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XXXI	3929-31	Apr. 16	YK	Koskimaki	CAGPL	Hunter's rifle, vandalism
	3972			Reid	CAGPL	Damage to bladder type storage tanks
47	6173	June 3		McT-Cowan	EPB	Shooting of birds
	6210			McT-Cowan		Recommendation: none to be used
C-1	28-29	Apr. 2	Aklavik	Paul	Citizen	Native people used to hunt with bow and arrow
56	7857-58	Aug. 18	YK	Horte	CAGPL	Regulations in construction camps re: firearms, alcohol and women
58	8147-48	Aug. 20		Blair	Foothills	Alyeska's camp regulations re: firearms, alcohol; regulations circumvented; social effect
	8165-73			Blair	Foothills	Alyeska re: Firearm usage in camps; harrassment of mammals and birds; Foothills' intentions
	8250			Blair	Foothills	Foothills' policy in construction camps
51	6808	Aug. 11	WH	Hemstock	CAGPL	Construction camp regulations prevent firearm usage
53	7114-18	Aug. 13		Banfield	CAGPL	Restrictions; impact of construction workers on wildlife
	7206-08			Sprecker	CYI	Opposition of unions to restrictions
	7240-45			Sprecker		Restrictions on workers, Alaska
C-21	2163	Aug. 9	NW	P. Tourangeau	Citizen	Hunting by whites
	2200-02			C. Ross	Citizen	CAGPL & Foothills policy in camps
63	9056	Sept. 17	YK	Mirosh	Foothills	Firearms for protection at compressor stations
94	14358-59	Dec. 2		Jakimchuk	CAGPL	Regulations, caribou migration; restriction as to access, hunting zones; civil liberties
95	14362-70	Dec. 3		Jakimchuk		Camp regulations; mammals attracted by garbage sites; hunting; civil liberties; Alyeska
	14519-21			Bayly Berger	COPE/ITC	Camp regulations; civil liberties; James Bay
C-24	2438	Aug. 23	NB	H. Deneron	Citizen	Charges laid against Indian people for carrying firearms in the parks

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116	17653	Jan.23	IN	Rempel	GPC-D-I	Not allowed at development or construction sites
162	25069	July 13	YK	Trusty	CAGPL	Only firearms in camps to be those needed for emergencies, security
165	25515-16	July 19		Ellwood	Foothills	Not permitted in construction camps
C-69	7932-33	July 17	FP	P. Simba	Citizen	Buying of guns from Hudson's Bay, number of furs necessary
180	27975-79	Sept. 7	YK	Nessel Whiteford	MVPI MVPI	Not allowed in construction camps; position of union re searching for firearms before entering camp
181	28082	Sept. 8		LeClair	MVPI	Project rules forbidding guns in camps

FISH-AS A RESOURCE

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93	14084-88	Dec. 1	YK	McCart	CAGPL	Domestic fishing sites, Fort Good Hope area, Peel River, Great Bear River, Donnelly River, Three Day Lake, impact of spills, subsistence fishing
103	15730-31 15742 15751-54	Dec. 15		Stein Stein Walker	CARC CARC	Utilization by pipeline personnel Demand - short and long term - after pipeline completion On Prime, Interior routes, Fort Yukon, Fairbanks corridors
105	15988-91 16002 16064-66 16074-75	Dec. 17		Stein Walker Marshall Ryder	CAGPL MVPI	Increased pressures; effects on domestic fishermen Environmental change detrimental to fishery resources re: pipeline construction Residency of fish population re: history of domestic fishing; population depression re: pressure on fish resources, Northern Yukon Implications of pipeline re: protection of fish resources
107	16303-05 16332-35 16373-75	Jan. 12		Berger Wilimovsky Wilimovsky	EPB	Char fishery in the Canning River Valley, species and sub-population - chance of recovery Utilization of the fish resource; catches by construction workers; demonstration of a domestic fishery; need for collection of domestic use data; game management Domestic fishing; a 'meat' fishery
116	17653	Jan.24	IN	Rempel	GPC-D-I	Effect of development on domestic fisheries, potential to over-fish
136	20695-99 20709-17 20730-31	Mar.26	YK	Peet Peet Peet	MVPI	As a resource for native domestic fisheries Commercial sports, domestic fishing Maintaining fish populations for domestic fisheries
148	22641 22669-70	Apr.29		Rushforth Rushforth	NWT IB/MA	Fishing, major source of food for Great Bear Lake people and their dogs Replacement value of fish
169	26294-99 26364-65	July 23		Ruttan Ruttan	NWT IB/MA	Species fished; estimated catches; environmental hazards Information sources re production of fish industry, Fort Good Hope
186	28909-20 28933-36	Sept.16		Currie Currie	COPE/ITC	Development of Beaufort Sea fish resource; oyster farming in Bras d'or Lakes Eel farming in Japan; trout fishing Stikameg Lake

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XV	1724	Mar.11	YK	Dau	CAGPL	Relocation of Main line route
XXIV	2809-11	Apr.7		Hollingshead	CAGPL	Effect of increased sediment on white fish
XXIV-A	2934-35			McRoberts	CAGPL	Effect of siltation at stream crossings

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XXV	3057-59	Apr. 8	YK	Hollingshead		Arctic grayling - crossing beaded streams
XXVII	3372	Apr. 10		Scott	MVPI	Stocking, ponds
XXVIII	3494-96	Apr. 11		Clark	CAGPL	Natural icings, ditchings
XXXVIII	4869-70	May 14		Lucas	CARC	River crossing techniques
46	6045-47	June 2		Templeton	EPB	Serious impacts, environmental matrix
	6068			Craik	EPB	Report #2 EPB, possible problems at pipeline construction
47	6151-69	June 3		Wilimovsky	EPB	Pipeline interaction, concern for habitat changes
48	6395-96	June 4		Wilimovsky		Sec 16 Code
C-I	48	Apr. 2	Aklavik	Ross	Citizen	Damage from blasting in lakes
C-II	101-103	Apr. 3		Gordon	Citizen	Spawning areas along proposed pipeline route
C-16	1677-78	July 16	F.L.	J. Klondike	Citizen	All fish eaten, no small ones thrown back
60	8522	Aug. 22	YK	Bouckhout	Foothills	Routing of Foothills main line at crossing of Smith Creek
51	6808-10	Aug. 11	WH	Hemstock	CAGPL	Construction procedures to prevent serious siltation of gravel beds, alteration of drainage patterns, blockage of streams; Fairbanks and Fort Yukon corridor and Interior route contain mountainous areas where major over wintering and spawning grounds exist; river crossings
52	6935	Aug. 12		Banfield	CAGPL	Comparative impacts of alternate routes
	6990-95			Banfield		Impact of alternate corridors on fish population
	7005-07			Banfield		Diversity and complexity of Arctic aquatic ecosystem
53	7139-43	Aug. 13		Banfield		Fish resources - Brooks Range
	7161-62			Banfield		Impacts of Marsh Fort and Canning River options in Alaska
	7240-41			Sprecker	CYI	Impact of Camp workers on fishing, Alaska
54	7409	Aug. 14		Geist	CARC	Effect of siltation on fish
	7475-76			Weedon	CARC	Withdrawal of water for construction purposes; availability of water during the winter; over-wintering of fish; impact on fish stocks
	7508-09			Weedon		Offshore corridor; impact of spills on fish populations
	7547-48			Weedon		Sources of water; snowfall required to construct snow roads and snow pads; stream crossings effects on siltation and fish stock; potential ice daming dangerous for fish
	7574			Parker	CARC	Pipeline river crossings; erosion by siltation; effect on fish habitat and fish populations
55	7613	Aug. 15		Hughes	CARC	Environmental disturbance to a valuable resource or valuable fish
	7657-58			Banfield		Impact on fish; Fairbanks Corridor
C-18	1810	Aug. 5	FGH	A. Wilson	Citizen	Concern re siltation at crossing of Hare Indian River
62	8821-22	Sept. 16	YK	Walker	Foothills	River crossings; increased silt loads; damage to fish; spawning areas; studies
64	9418	Sept. 18		Spafford	Foothills	Recommendations from environmental staff re stream crossings, sedimentation & use of culverts
	9426			Mirosh	Foothills	Studies conducted on effects of sediments on fish spawning beds
67	9841	Sept. 23		Mirosh		Avoidance of wood chipping near water ways to prevent impact on fish
70	10583-87	Sept. 26		Lewis	MVPI	Impact of mining gravel on inactive flood plains; siltation
	10593			Lewis		Installation of culverts in stream with significant ground water flow; absence of fish
71	10636	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Section 7 of land use regulations; contact with Fisheries Department; jurisdiction over water crossing, fish
75	11079	Oct. 20		Weedon		Impact of river and stream crossings

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75	11101-04	Oct. 20	YK	Parker	CARC	Impact of removal of water for snow road construction on over-wintering fish populations; impact of increased siltation and erosion due to construction of stream and river crossings; construction scheduling
76	11164 11176	Oct. 21		Parker Weedon		Impact on fish re: mining river bars for gravel Impact of Trans-Alaska Pipeline on fishery resources
78	11641	Oct. 23		Minning	CAGPL	Over-wintering of fish; spring feed river systems
79	11739-41	Nov. 3		Harlan	CAGPL	Studies to be carried out to determine overwintering areas and impact of chilled line on water flow
80	11883 11896	Nov. 4		McCart McCart	CAGPL	Upland rather than active flood plain for borrow sites preferable in terms of fish Circumstances where mining of gravel below water level in active flood plain should be prohibited; danger of ponding and entrapment of grayling
81	11920 11979	Nov. 5		Hemstock Clark	CAGPL CAGPL	Consideration of fish in harvesting of snow from lakes Contact of chilled line on ground water; reference to char overwintering area
	12101-14 12114-33			Williams McCart	CAGPL	Impact of ground water use on fish Siltation from borrow removal in braided rivers; impacts of dissolved oxygen
82	12197-99 12222-23 12271-75	Nov. 6		McCart McCart McCart		Impact of methanal disposal into rivers Populations to be maintained; restocking Priorities of concerns of potential risks to fish and aquatic organisms
83	12350 12424-38 12462-67 12471-73 12484-91	Nov. 7		Hemstock Scott Environmental Panel McCart Scott McCart Scott McCart Hemstock	MVPI CAGPL	Disturbance of aquatic life by borrow pit location Rat River, char, spawning areas, siltation; active flood plain mining, alternative sources Impact, gravel mining, North Slope rivers DOE's guidelines, borrow operations in river beds, consultation with Fisheries and Marine Availability, impact information, gravel mining site plans, riverbeds, North Slope; avoidance of mining when eggs present
84	12533-56 12558-79 12590-12609	Nov. 8		Anthony Environmental Panel Anthony McCart Hemstock Bayly McCart Williams	CARC CAGPL CAGPL COPE/ITC CAGPL	Sub-surface water flow, North Slope rivers; gravel pits; ice bridges; siltation, river crossings Effects of water withdrawal on populations; lake lowering; camp locations; CAGPL guidelines, recommendations; culverts Impact from water withdrawal, Komakuk Beach compressor station
85	12621-75 12719-37	Nov. 12		Bayly McCart Williams Harlan Scott Environmental Panel	CAGPL MVPI CAGPL	North Slope water withdrawal impact, overwintering, gravel mining, populations, river crossings, siltation, aquifers, critical areas, borrow operations River crossings, impact; water withdrawal, Firth River
85A	12741-90			Scott McCart		Impact of water withdrawal, Mackenzie Valley, North Slope; siltation
86	12806-08 12980-91	Nov. 13		McCart Lawrence	Foothills	Impact statements, river crossings Chlorine in sewage, sewage
88	13305-12	Nov. 17		Bouckhout Claridge	Foothills Foothills	River crossings, effects, siltation, water by-pass methods
88-A	13381-94	Nov. 17		McCart		Impact of pipeline, reports; siltation, oxygen levels, water sources, obstruction, sub-surface drainage, borrow sites, interior route, Fort Simpson route change, methanol
90	13637-38 13657 13735-64	Nov. 19		Dabbs McCart McCart McCart	CAGPL	Revegetation fertilizer in streams Impact of railroad; fill requirements, route inflexibility Stream catalogue; fish resilience; river crossing berms, water velocities, culverts, sedimentation, fish migration; impacts of oil pipeline, highway; sensitive rivers

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91	13767-844	Nov. 20	YK	McCart	CAGPL	Critical areas, route impact survey, route selection, site specific recommendations, monitoring; swimming performance; siltation; environmental inspector; river crossings, recommendations; springs; methanol effects; warm-water testing effects
92	13956-65 13972-88	Nov. 21		McCart		Studies; significant populations, impact of siltation
	13988-95			McCart		Population, resilience; over-fishing; destroying a population; studies; easier access for anglers-impact; Alyeska experience; potential overfishing if interior route chosen; Pointed Mountain line, increased siltation, impact on fish; difficult to assess impact
	14005-13			McCart		Culverts, fish swimming performance; design
	14018-19			Bayly	COPE/ITC	Studies, baseline data, extrapolation from one area to another; establishing reasons for decline in populations
	14021-59			Hemstock McCart	CAGPL	Fear of Tuk residents of potential impact on fish if harbour used as staging area
93	14076-101 14329-36	Dec. 1		McCart		Dr. Gunn's film; research methodology, how to set adequate and appropriate preventive measures; use of Alyeska for baseline data to measure potential impacts; protection methods for individual river crossings, monitoring siltation
	14329-36			Banfield McCart	CAGPL	Impact on fish, ice blasting
95	14445-51	Dec. 3		Hemstock Gunn McCart	CAGPL	Dempster Highway, lack of baseline studies; monitor aquatic environments during construction; river crossings
	14457			McCart		Assessment of pipeline, highways, oil pipelines; corridor concept; cumulative effects - Chick Lake test site; route selection
	14476			McCart		Effect of oil spills, lubricating fluids on fish
	14483-84			McCart		Disposal of methanol into the Mackenzie River
	14500-01			Banfield		Siltation, increased levels-impact on fish, eggs
96	14617-18	Dec. 4		McCart		Impact of North Sea development on fishing
97	14808	Dec. 5		Templeton	EPB	Fish concerns and impact from winter blasting on the Great Bear River
99	15119-23	Dec. 9		Hayden	Foothills	Overall impact on fish
	15184			Hayden		Avoidance of char areas, North Slope; importance of Delta; differences from CAGPL; studies; lateral routes studies
100	15216-22	Dec. 10		Hayden		Gathering information on community lateral routes
	15230			Bouckhout	Foothills	Future studies, locations; little-known species; fish handling, sampling
	15285-318			Scott Hayden	MVPI	Subjectivity of report conclusions
101	15395	Dec. 11		Hayden		Studies for river crossings, information required; siltation experiments; other possible experiments; impact of pipeline on fisheries, protective measures
	15429-32			Peterson	CARC	Deficiency in information re: winter ecology, coregonid species; winter siltation
103	15722	Dec. 15		Stein	CARC	Highly sensitive aquatic areas, important fishery areas, overwintering areas, Horseshoe Bend proposed as avoidance areas, Guideline #4
	15789			Millen	CARC	Require definition of major fish species in Mackenzie system, life histories, age composition
	15799			Bell	NWT IB/MA	Witness' background re: fish protection
	15801-40			Stein Marshall	CAGPL	Cross-examination of Stein re: East of Franklins Route - potential impact on fish
	15842			Bayly Stein	COPE/ITC CARC	Studies re: pipeline impact, Beaufort Sea Program, overview report, Mackenzie Highway Monitoring Project, Great Bear River hydro development; gravel removal guidelines; impact Edge of Shield Route on fish resource in Great Bear Lake, Great Slave Lake
105	15977-96	Dec. 17		Steigenberger Berger Stein	CARC	Intensive studies on Mackenzie re: methods, monitoring fish migration
						Fish in the Mackenzie
						Advantage of all-weather roads for protection of fisheries
						Spawning area removed as a gravel source

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105	15977-96	Dec. 17	YK	Hollingworth	Foothills	Increase of pressure on fishery resources by sport and commercial fisheries; difficulty of fishing control
				Stein		Use of fishing resources - fishing rights
	16001-50			Walker Stein Steigenberger	CARC	Fisheries Service program re: biology, physical aspects of resource, effects of environmental change, precautions and guidelines; habitat; protection re: monitoring and inspecting; critical overwintering areas
	16094-122			Ryder Stein Steigenberger	MVPI	McCart's stream catalogue re: use of stream by fish: spawning, rearing, overwintering; protection re: sedimentation control; baseline information re: species, abundance, habitat, migration routes and time, reaction of fish to dredge and berm, hydrological effects; eating habits; reaction to certain environmental impacts; support of fish re: gravel removal; blockage to fish passage re: ice bridges; monitoring re: fish migrations
106	16166-69	Dec. 18		Lent	CARC	Carson's report re: inclusion of fish biologist as government representative at field level, value of habitat to fish before construction, fish biologists, authority to halt construction
107	16296 16303-05	Jan. 12		McT-Cowan Berger	EPB	Favours the Prime route Char fishery in the Canning River Valley; ability to recover - number of species and sub-species
108	16457-58 16465-66	Jan. 12		Wilimovsky Wilimovsky	EPB	Effect of oil spills on fish Blasting - impact on fish; sensitivity to pressure; ice composition, blasting in arctic environments
	16428			McT-Cowan		Preference of coastal route
109	16627 16638-39	Jan. 14		McT-Cowan Wilimovsky		Fishing - by native peoples, construction worker; management of the resource Impact on fish; removal of gravel from active stream beds must be avoided
111	16977-78	Jan. 16		Davies	MVPI	Siltation impact on char as example of lack of information on system sensitivities
C-24	2397-99	Aug. 23	TL	E. Jumbo	Citizen	Impact of pipeline on fishing
112	17060-68 17074 17343	Jan. 20	IN	Bliss Bliss Mainland	GPC-D GPC-D-I	Difficulty of information-gathering; species found in Delta area; productivity of lakes; harvest in Delta area Comparison of habitat, species diversity, Arctic island lakes versus Delta area Studies being done at Big Horn Point
116	17684	Jan. 24		Appleton	GPC-D-G	Use of dispersants, toxicity of disturbance to fish and marine mammals
120	18326-27	Jan. 29		Martell	COPE	Distribution of fish in Delta
121	18397-400 1812-16 18430-38	Feb. 10		Grainger Percy Stein	COPE/ITC COPE/ITC COPE/ITC	Role of fish in Arctic marine ecosystem Impact of oil on physiology, behaviour of organisms in the water column Impact of drilling fluids, oil spills on fish resource
122	18569-70 18595 18601-06 18694-705	Feb. 11		Stein Percy Stein Stein Barty	COPE/ITC COPE/ITC	Recovery period after oil spill Sublethal effects of oil on fish Impact of dredging activities in Tuktoyaktuk Harbour on fish resource; fish utilization of Kugmallit Bay Impact of cross-Delta pipeline construction on fish migration, habitats; toxicity of drilling fluids to fish; critical coastal fish habitats re oil spillage
124	18971-73	Feb. 13		Milne	COPE/ITC	Recovery period for delta, coastal fish species subject to high oil-kill

FISH - GENERAL (ENVIRONMENTAL) (continued)

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125	19097-98	Feb. 14	IN	Pettigrew	COPE/ITC	Mackenzie River, coastal area fish habitats sensitive to petrochemical spills
126	19289-95	Feb. 16		Snow	COPE/ITC	Use of annual maximum discharge to enable removal of added sediment from river substrates as a criterion for protecting fish habitats, food supply
	19296-97			Snow		Cumulative impact of pipeline development on delta fish resource
127	19455-70	Feb. 17		Trudeau	COPE	Impact of explosives on fish; fish kills; protection
128	19496-98	Feb. 18		Trudeau		Impact of explosives on fish; scaring fish away from blasting
133	20130	Mar. 23	YK	Rowe	CAGPL	Impact, cross-Delta route
	20137-38			Rowe		Use of lakes, channels near Niglitngak supply line; monitoring impact
	20149-51			McCart	CAGPL	Impact of cross-Delta route
	20183-84			McCart		Comparison of impact of various cross-Delta routes
134	20210	Mar. 24		McCart		Preference for erosion control technique, west side, Shallow Bay crossing
	20279			McCart		Importance of constructing East Channel crossing quickly, Shallow Bay crossing can take longer; East Channel more important to fish
	20290-91			McCart		Fish food sources, Delta channels
	20346-47			McCart		Possible impacts of summer construction of cross-Delta and coastal routes
135	20458-59	Mar. 25		McCart		Importance of Mackenzie Delta channels
	20577-82			Sprague	MVPI	Impact of pollutants in water; experiments
	20596-600			Sprague		Impact of pollutants on fish
136	20613-14	Mar. 26		McCart		Effects of "DEW line route" on fish, North Slope
	20631-35			Sprague		Studies of effects of oil refinery wastes, siltation on fish
	20692-94			Peet	MVPI	Regulations governing fisheries in NWT
	20701			Peet		Species important to domestic fishing: "stress" on fish, effects
	20721			Peet		Evidence based partly on fishery report by Stein
	20735-42			Peet		Studies of fisheries
C-44	4177	Mar. 8	TUK	Nasogaluak	Citizen	Decrease in fish, poor quality
C-52	5393	May 13	CAL	C. Osborne	Citizen	Importance of northern habitat
C-59	6524-25	May 26	TOR	M. Edwards	Citizen	Oil spills, blowouts - evacuation from polluted areas; underwater sonic alarm and censor
C-67	7111	June 1	MTL	Boudrias	Citizen	Southern rivers polluted by industrial waste, fish dying whilst native people fight for their fishing rights
C-69	7942-45	July 17	KL	H. Simba	Citizen	Disapproval of study methods, fish biologists
194	30359-64	Oct. 6	YK	Hemstock	CAGPL	Impact of oil, gas pipeline construction expected to be minimal
197	31117	Oct. 13		Norton	MVPI	Impact of water taken from Sagavanirtok River

FISH - MIGRATION

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XX	2390-92	Mar. 18	YK	Clark	CAGPL	Construction berms at river crossings, impact on fish migration; water velocities
XXIV	2810-11	Apr. 7		Clark		Effect of increased water velocity (Great Bear River)
XXXVIII	4900-04	May 14		Lucas	CARC	Grayling migration downstream, Great Bear River
47	6160-61	June 3		Willimovsky	EPB	Movement through culverts, length of delay critical
67	9860	Sept. 23		Jarvis	Foothills	Impact of melt out of ice bridges and their debris on fish migrations

FISH - OVERWINTERING

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XX	2394	Mar.18	YK	Clark	CAGPL	Icings, depletion of water at overwintering areas
XXII	2624-27	Mar.20		Clark		River crossings, subsurface flow, ice dam problem
XXVIII	3460-63	Apr.11		Hollingshead Clark	CAGPL	Open water icings
	3493-96			Clark		Culverts, pipeline scheduling
XXXII	4122-23	Apr.18		Reid	CAGPL	Effect of methanol
XXXVIII	4854	May 14		Dau	CAGPL	Water sources for snow making
C-18	1824	Aug. 5	FGH	Rowe	CAGPL	Effects of Hare Indian River crossing
66	9822-27	Sept.22	YK	Jarvis	Foothills	Effects of snow removal from lakes causing freezing to bottom; impact
79	11738-41	Nov.3		Harlan	CAGPL	Spring between Firth and Malcolm Rivers supports large population of Arctic Char
80	11893	Nov.4		McCart	CAGPL	Grayling overwintering in Rapid Creek - recommendations to minimize impacts of borrow activities
81	12120-33	Nov.5		McCart		Most sites upstream from pipeline crossing; impacts
84	12606-08	Nov. 8		McCart		Spread "C" water withdrawal impact
85	12633-59	Nov. 12		Bayly Environmental Panel	COPE/ITC CAGPL	North Slope; populations, sites, gravel mining, sedimentation, river crossings, aquifers, crew fishing
	12734-37			McCart Williams	CAGPL	Impact of water withdrawal, Firth River
85A	12745-48			McCart		Vermilion Creek, River Between Two Mountains, Rat River, Donnelly River, Three Day Lake, Great Bear River and Lake
	12770			McCart		Water taken, overwintering pools, Sagavanirtok River
88-A	13391-93	Nov. 17		McCart		Interior route, Fort Simpson, realignment; methanol impact
90	13758-63	Nov. 19		McCart		Impact of river crossing berms, sensitive rivers
91	13769-844	Nov. 20		McCart		Critical areas, route impact survey, site-specific recommendations, siltation, river crossings, springs, methanol and warm-water test fluids
	13913-51			McCart		Present knowledge, various species, Mackenzie Valley, North Slope
92	14044-46	Nov. 21		McCart		Loon lake, river; overwintering populations; measuring siltation under ice
93	14068-76	Dec. 1		McCart		Disposal of methanol in the Mackenzie River; impact on overwintering fish
	14082-101			McCart		Impact of siltation, sedimentation; monitoring
94	14343-43	Dec. 2		McCart		Canning River Valley, Marsh Fork; critical area; interior route - preference for summer construction
98	14890-92	Dec. 8		Scott	MVPI	North Slope ponds, lakes
100	15216-22	Dec. 10		Hayden	Foothills	Future studies
	15239			Bayly	COPE/ITC	Little known about some species
103	15722	Dec. 15		Stein	CARC	Must locate, define overwintering areas re: Mackenzie system
	15748-54			Walker	CARC	Impact of construction re: Prime, Interior routes, Fort Yukon, Fairbanks corridors
	15757			Steigenberger	CARC	Route selection, timing of construction or abandonment
104	15849-70	Dec. 16		Bayly Stein		Intensive studies on the Mackenzie - species resiliency recommendations
	15874			Steigenberger		Site on Firth River requiring study
	15890-975			Stein Steigenberger Walker		Site variation; impact on aquatic resource at crossing sites; regulations on recreational fishing to protect sites; indirect reference re: permanent highway construction on North slope, methonal disposal, construction - on-site environmental protection authorities
105	16033-36	Dec. 17		Steigenberger		Specific critical areas impinged upon by pipeline; Stokes Point Lagoon, Beaufort Sea, Porcupine River
	16077-125			Stein Steigenberger		Need for winter studies; undetected overwintering areas; effect of sedimentation; McCart's stream catalogue; monitoring
114	17343	Jan.22	IN	Mainland	GPC-D-I	Big Horn Point, overwintering site for Arctic cisco

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82	12275	Nov.6	YK	McCart	CAGPL	Concern re: culverts and berms obstructing fish passage
85	12636-60	Nov. 12		Bayly McCart Harlan	COPE/ITC CAGPL	North Slope rivers, gravel mining, populations, modified construction methods
	12662-75			Bayly McCart Williams	CAGPL	North Slope rivers, channel migration, bed and bank erosion, gravel mining
90	13743-63	Nov. 19		McCart		Impact of increased water velocity due to river crossing berms, Great Bear River, Swimming Point
91	13813-18	Nov. 20		McCart		Swimming performance, siltation, critical areas
	13902-54			McCart		Reduced catch, domestic fisheries, Peel River; migration, Mackenzie River, Beaufort Sea coast, knowledge, various species, studies
92	13988-95	Nov. 21		McCart		Culvert design, fish swimming performance
93	14065-68	Dec. 1		McCart		Barriers to fish passage; impact of snowroads and bridges, permanent roads
	14077-78			McCart		Effect of blasting on congregating fish
99	15119-23	Dec. 9		Hayden	Foothills	Avoidance of char, North Slope; Mackenzie Delta; differences from CAGPL; studies; lateral lines; deficiencies in data
100	15258-61	Dec. 10		Hayden		Culverts, obstruction to movements
103	15722	Dec. 15		Stein	CARC	Major migratory routes require definition
	15757			Steigenberger	CARC	Avoidance of interruption during construction or abandonment; migration monitoring
	15795-98			Millen	CARC	Fisheries Act Regulations re: construction
104	15844-70	Dec. 16		Stein Bayly		Intensive studies on Mackenzie, methods, timing of fish migration, major routes; specie resiliency
	15879-952			Stein Walker Steigenberger	CARC	Fish feeding habits re: migration, utilization of Shallow Bay route, impact of dredging, river crossing
105	16001	Dec. 17		Walker		Inventory of indigenous and migratory fish stocks, qualitatively and quantitatively
	16055-56			Berger		Need to compliment re: McCart and panel's data on migrating places; further information required
	16100-101			Stein		Summer crossings re: migration routes and times; hydrological effects
	16113			Stein		Monitoring
106	16214	Dec. 18		Calef	CARC	Comparison re: caribou and salmon populations
116	17652	Jan.24	IN	Rempel	GPC-D-I	Culverts or bridges for unrestricted movement
117	17774	Jan. 26		Webb	GPC-D	Mackenzie Delta, migratory pathway
121	18424-B-29	Feb. 10		Stein	COPE/ITC	Migration routes of anadromous, marine, freshwater species in Mackenzie Delta
	18434			Stein		Shallow Bay migration corridor
122	18552-60	Feb. 11		Stein		Fish migrations - spawning, post-spawning in western part of Mackenzie Delta
	18605			Stein		Fish utilization of Kugmallit Bay
	18644-45			Stein		Monitoring fish migration during construction period
	18697-99			Stein		Impact of cross-delta route construction - dredging, siltation on fish
133	20150-52	Mar.23	YK	McCart		Impact of cross-Delta route
134	20226-31	Mar.24		McCart		Monitoring migration at Shallow Bay crossing; importance of Delta channels
	20302-05			McCart		Studies of Delta area, known information
135	20459-65	Mar.25		McCart		Delta channels; measures to reduce impact of crossings; monitoring at crossings
	20502			McCart		Possible impact of Vumak channel crossing, Niglintgak supply lateral
136	20709-11	Mar.26		Peet	MVPI	Possible impact of construction on fisheries
	20717			Peet		Makes quotas etc. difficult
169	26297	July 23		Ruttan	NWT IB/MA	Several species migrate long distances up Mackenzie River, impact of pipeline or other developments

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117	17760	Jan. 26	YK	Webb Rempel	GPC-D GPC-D-I	Overwintering covey at Big Horn Point, effect of sand withdrawal; fish studies in Harry Channel, difficulty of research techniques, plans for further assessments
	17774			Webb		Mackenzie Delta, overwintering area
121	18424-B-29	Feb. 10		Stein	COPE/ITC	Overwintering habits of anadromous, marine, freshwater species in Mackenzie Delta
	18434			Stein		Pollution sensitive overwintering areas in Delta area
132	20014	Mar. 18	YK	Williams	CAGPL	Studies still being done on lakes in Delta which may be used for snow harvest, water sources
134	20305-12	Mar. 24		McCart	CAGPL	Locations in Delta area, studies to be done; possible pipeline realignments
135	20467-80	Mar. 25		McCart		Impact of Delta channel crossings, measures to reduce impact
136	20613	Mar. 26		McCart		Possible impact of North Slope "DEW line route".
191	29809-11	Sept. 24		Bayly Evans	COPE/ITC MVPI	Need for study on impact of dredging
201	31780	Nov. 16		Marshall	CAGPL	Problems re pipeline cut-off of subsurface flow to overwintering areas on North Slope not expected

FISH - POPULATION

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93	14078-101	Dec. 1	YK	McCart	CAGPL	Resiliency of Arctic fish populations, growth rates, impact of route; fish as a resource, monitoring
	14134-36			Gunn	CAGPL	Study of lakes between Prudhoe Bay and the Delta; significance to fish and waterfowl populations; water withdrawal
96	14688-90	Dec. 4		McCart		Impact of blasting; migration of salmon
100	15216-22	Dec. 10		Hayden	Foothills	Future studies
	15288-318			Hayden		Information required before recommendations can be made on river crossings
103	15749-54	Dec. 15		Walker	CARC	Evaluation re: Prime, Interior routes, Fort Yukon, Fairbanks corridors
	15762			Steigenberger	CARC	River utilization along Prime route
104	15843-40	Dec. 16		Stein Bayly	CARC COPE/ITC	Intensive studies on Mackenzie; assumptions made re: fish population dynamics, species resiliency; recommendations
	15873-77			Steigenberger Walker		Fisheries recommendations - further studies in Northern Yukon re: Arctic char, Fish Creek, Malcolm River, Spring River, Old Crow River; chum salmon numeration, 1975
	15879-975			Stein Steigenberger Walker Millen	CARC	Restocking techniques on North slope, Cache Creek annual catch re: over-fishing; Porcupine River route, North Slope route re: impact on fish resource; definition of significant populations; feeding habits in Mackenzie; sedimentation impact on benthic organisms; piscivorous species; study assumptions made; Mackenzie Highway re: three stream crossings - impacts on fish; historical exploitation of fish resource in Northern Yukon Territory; commercial fisheries catch quotas
105	15984-88	Dec. 17	YK	Stein		Repercussions re: gravel removal from habitat; difficulty of fishing control
	16064-66			Walker		Resilience; population depression re: pressure on resources historically
	16108			Ryder	MVPI	Gravel removal re: fish support

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109	16695-701	Jan. 14	YK	Wilimovsky	EPB	Fish management, population dynamics, harvests; standards
	16708-10			Wilimovsky		Inventory of fish stocks; Mr. Steigenberger's testimony; management plans
121	18424-B-29	Feb. 10	IN	Stein	COPE/ITC	Populations, spawning, overwintering, migration habits of anadromous, marine, freshwater species in Mackenzie Delta
	18434			Stein		Fish populations in areas sensitive to pollutant contamination
136	20744-50	Mar. 26	YK	Peet	MVPI	Information for regulation of fisheries
	20760-61			Peet		Information to show commercial and domestic fishing possible in same areas

FISH - SPAWNING AND REARING

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XXXVIII	4901-02	May 14	YK	Lucas	CARC	White fish runs, Great Bear River
42	5511-14	May 21		Scott	MVPI	Donnelly River crossing area for spawning, rearing, grayling
47	6156-61	June 3		Wilimovsky	EPB	Increased siltation has effect
C-18	1824	Aug. 5	FGH	Rowe	CAGPL	Impact of Hare Indian River crossing
79	11704-11	Nov. 3	YK	McCart	CAGPL	Impacts of borrow operation using berm; channel cut by bulldozer on active flood plain in Alaska; siltation, sedimentation
81	12115-33	Nov. 5		McCart		Grayling spring spawners; char fall spawners; interference of siltation with incubation
84	12554	Nov. 8		McCart		Concern for sedimentation in streams where terrain unstable
85	12634-56	Nov. 12		Bayly McCart	COPE/ITC	North Slope rivers, gravel mining, crossings, sedimentation, Firth River, North Slope streams
	12667-75			Bayly McCart Williams Harlan	CAGPL CAGPL	North Slope rivers, gravel mining, channel migration, bed and bank erosion
	12730-37			McCart Williams		Impact of water withdrawal, Firth River
85A	12747-50			McCart		Mackenzie tributaries, Donnelly River, Three Day Lake, Great Bear Lake and River, locations populations
	12756-63			Scott McCart	MVPI	Water withdrawal effects on fish eggs
88	13306	Nov. 17		Ryder Bouckhout	MVPI Foothills	Siltation, effect on eggs
88-A	13381-94	Nov. 17		McCart		Impact of pipeline, siltation, oxygen levels, water sources, obstruction, sub-surface drainage, borrow sites, interior-route, Fort Simpson route change, methanol
90	13737-63	Nov. 19		McCart		Effects of siltation; impact from river crossing berms, Great Bear River, Swimming Point; impacts of oil pipeline, highway; sensitive rivers
91	13770-844	Nov. 20		McCart		Critical areas, site specific recommendations, siltation, methanol, warm-water testing fluids
	13838-43			McCart		Effects of methanol on reproduction
	13903-54			McCart		Present state of knowledge, Mackenzie Valley, Yukon coast
92	13986-88	Nov. 21		McCart		Impact of siltation from river crossings on spawning grounds, egg loss, fish populations
	14018-19			Bayly		Fear of Tuk residents of potential impact on fish if harbour used as staging area
93	14068-76	Dec. 1		McCart		Impact of methanol disposal into the Mackenzie River on fish populations
	14081-101			McCart		Life cycles of Arctic Char, impact of Interior and Coastal Routes, Canning River, fish as a resource, domestic fishing sites, impact of sedimentation, siltation
94	14342-43	Dec. 2		McCart		Canning River - important spawning and over-wintering area
96	14689-90	Dec. 4		McCart		Salmon in the Porcupine river; river crossing
99	15122-23	Dec. 9		Hayden	Foothills	Identifying spawning; rearing areas

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100	15218-22	Dec. 10	YK	Hayden		Locating spawning beds; fall spawning fish; co-ordinating with Fisheries Service
	15285-318			Hayden		Information required before making recommendations on river crossings
	15327-32			Hayden		Holmes Creek crossing relocation, reasons
103	15722	Dec. 15		Stein	CARC	Require location, definition of critical spawning, overwintering areas re: Mackenzie system
	15755			Steigenberger	CARC	Pipeline avoidance of Firth, Fishing Branch Rivers
	15794-97			Millen	CARC	Fishing Act Regulations re: fish protection for Yukon Territory & N.W.T.
	15809-13			Stein		Sites re: river crossings; variation in open water areas
104	15843-70	Dec. 16		Stein Bayly	COPE/ITC	Intensive studies on Mackenzie - methods, summary of results, specie resiliency; recommendations
	15890-975			Stein Walker Steigenberger	CARC	Documented, potential sites; impact on fish from crossing sites; regulations on recreational fishing to protect spawning sites; methanol disposal - potential impact; on-site environmental protection authority
105	15984-88	Dec. 17		Stein		Effect of gravel removal from spawning habitat
	16042-67			Steigenberger Stein		Ground water sources re: lack of fish; Joe Creek; water percolation through gravel; protection at crossing sites; identification of spawning areas effected by pipeline construction
	16101-22			Stein Millen		Stream crossings re: habitat analysis; fish runs blocked by late removal of ice bridges
109	16693-94	Jan. 14		Wilimovsky	EPB	Siltation, tolerance
C-38	3675	Feb.15		Koe	Citizen	Peel River migration route
112	17074	Jan.20	IN	Bliss	GPC-D	Delta area offers good habitat
117	17774	Jan. 26		Webb	GPC-D	Mackenzie Delta, spawning and rearing area
121	18424-B-29	Feb. 10		Stein	COPE/ITC	Spawning, rearing habits of anadromous, marine, freshwater species in Mackenzie Delta
122	18552-60	Feb. 11		Stein		Inconnu, Arctic cisco, broad whitefish, Lumpback whitefish spawning areas, use of Holmes Creek, Shallow Bay; Holmes Creek - measure to protect critical fish habitats from development
	18643-44			Stein		Whitefish, grayling spawning sites in Delta
133	20188	Mar.23	YK	McCart	CAGPL	Population of spawning least ciscos upstream of cross-Delta route
134	20228	Mar.24		McCart		Effects of delaying migration by cross-Delta river crossings
	20310-12			McCart		Possible realignment, cross-Delta route to minimize impact
135	20465-68	Mar.25		McCart		Impact on spawning beds of Delta channel crossing construction
	20590			Sprague	MVPI	Impact of siltation on fish eggs
136	20613	Mar.26		McCart		"DEW line route", North Slope, crosses downstream of grayling rearing areas
	20632-35			Sprague		Effects of oil refinery wastes on fish reproduction
	20667-69			Sprague		Sensitivity of fish to pollutants, siltation varies
	20709-11			Peet	MVPI	Possible impact on fisheries
169	26297	July 23		Ruttan	NWT IB/MA	Species spawning in Mackenzie river endangered by pipeline or other development
191	29809-11	Sept.24		Bayly Evans	COPE/ITC MVPI	Need for data on impact of dredging

FOOTHILLS - ORGANIZATION, FINANCING

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56	7892-09	Aug. 18	YK	Blair	Foothills	Ownership of AGTL and three major Canadian gas transmission systems; research; joining of companies into the Gas Arctic/North West Project Study Group; later withdrawal from Gas Arctic/ North West Project Study Group
57	7948-8004	Aug. 19		Blair	Foothills	Canadian participation in the North West Group; Canadian membership in AGTL; transmission services of Arctic Gas and Foothills involvement; reasons for withdrawal from Arctic Gas; gas sources; examination of the transmission practices of AGTL, West Coast; gas carried; destination; effective management control; Canadian owned companies; share holding in AGTL, West Coast; upper management personnel
	8006-13			Blair	Foothills	Canadian participation; Canadian investment; merger of companies; AGTL investment listing; share classification; application to N.E.B.; election of directors and members of the board
	8053-62			Blair	Foothills	Funding and appraisal of reserves; mortgage investments; bonds; government intervention in bonds and investments
	8107-14			Blair	Foothills	Gas transmission; capacity flows; spare capacity; tariffs; pipe size (48 versus 42 inch); delivery laterals
58	8211	Aug. 20		Blair	Foothills	Listing of dates as to Pan Alberta's termination of contract as to exploration of Canadian gas
	8214-16			Blair	Foothills	Personnel in Socio-economic studies and recommendation groups
58	8253-54	Aug. 20		Blair	Foothills	Reasons for withdrawal from Arctic Gas; Canadian interests
	8279-87			Blair	Foothills	Capital investments, cumulative investment; outside funds; shares
59	8334-35	Aug. 21		Mirosh	Foothills	Use of CAGPL material; AGTL data and information
	8397-3002	Aug. 21		Mirosh		Aims re: Canadian ownership; application to N.E.B.; Pan Arctic transmission
	8470-72			Mirosh		Method of research - past and on-going; personnel responsibilities
C-21	2187-90	Aug. 9	NW	Blair	Foothills	Policies toward local industry
65	9494-9511	Sept.19	YK	Panel 9	Foothills	Responsibilities of panel members within Foothills
66	9648-54	Sept.22		Mirosh Kosten	Foothills	Relationship between Foothills & advisors, contractors
99	15105-32	Dec. 9		Environmental panel	Foothills	Foothills environmental programme
100	15271-83	Dec. 10		Bouckhout Whitney	Foothills Foothills	Environmental studies, impact assessment; Lombard North; areas of concentration, scheduling of studies
C-25	2525-27	Sept. 8	FS	Rutherford	Foothills	Company ownership, financing
C-30	2894	Oct. 6	PP	Mirosh		Prime sponsoring companies
150	22994-95	May.4	YK	Hollingworth	Foothills	Speech by Kelly Gibson, Chairman of the Board
151	23185-86	May.5		Hollingworth		Suggestion by Blair that part of shares be owned by native groups
155	23691-93	June30		Hollingworth Watkins	NWT IB/MA	Blair, proposal for native participation, equity and ownership
C-56	6043-45	May 19	REG	P. Black	Citizen	Support of Foothills project if pipeline not operated by publicly owned corporation
C-62	6887	May 31	MTL	Poirier	Citizen	Federal Government has spent little money on research as compared to Foothills
159-A	24594-96	July 7	YK	Berger		Possible request for government backing, capital borrowings
165	25562-63	July 19		Burrell	Foothills	Opportunity for NWT residents to purchase equity ownership in Foothills project
174	27152-56	Aug 20		Blair	Foothills	Ownership of Foothills; Foothills Pipe Lines Yukon Limited, Westcoast Transmission, Northwest Pipeline

FOOTHILLS - UNDERTAKINGS

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57	8036-40	Aug. 19	YK	Blair	Foothills	To provide a copy of N.E.B. application; date of withdrawal of application
	8094-96			Blair		Provide information concerning the build-up of spare capacity; location of capacity; sources which allow for a spare capacity
58	8167	Aug. 20		Blair		To contact upper management personnel re: lessons which can be learned from the Alyeska situation with respect to firearm use, alcohol on construction sites
	8211			Gibbs	Foothills	To obtain the date of application to N.E.B.
	8281-83			Blair		To produce final statements pertaining to capital investment needed to build a pipeline and AGTL transmission pipelines
	8291-92			Blair		To produce figures and calculations as to the community gas saving
59	8388	Aug. 21		Gillespie	Foothills	To provide maps referred to in Gillespie's submissions
	8392			Mirosh	Foothills	To produce reports on the Fort Simpson route change
	8395			Bouckhout	Foothills	Provide data which influenced Travailant Lake and Thunder River route change
	8406			Gibbs		Finance figures to be forthcoming
	8420-25			Fawcett	Foothills	To provide a list of reports, studies; Foothills basic research material
	8445			Drew	Foothills	To provide a list of areas in which Foothills differed considerably from Dr. Mollard's analysis re: air photo interpretation
	8454			Hollingworth	Foothills	Respect to Goldie's request for the date of AGTL's application as filed
	8455			Fawcett		Changes in route made specifically because of terrain sensitivity
60	8492	Aug. 22		Scott Fawcett	MVPI MVPI	Map showing corridor selected by Foothills
	8501-02			Fawcett		Reports by consultants, Klohn Leonoff and Lombard North; route adjustments
	8510			Scott		List of adjustments in Foothills route made on a recommendation by Lombard North
	8513-14			Scott Hollingworth	Foothills	Production of reports by environmental consultants to Foothills
	8523			Scott		List of adjustments to the Foothills route around Norman Range
C-1A	1827	Aug. 5	FGH	Ellwood	Foothills	To provide details of borrow sites at Fort Good Hope
61	8676	Sept. 15		Gibbs Marshall	CAGPL	Foothills to produce an internal report pertaining to the location of compressor station number one; Parsons Lake lateral junction
	8696			Gibbs		Hydraulic studies used by Foothills to determine if chilling of a spur line would be necessary
62	8770-71	Sept. 16		Gibbs		To produce interim studies which compared Brooker's model as used by CAGPL to Dr. Coulter's model as used by Foothills; geotechnical evidence
	8786 C		YK	Berger		To produce report by Dr. Glockner
	8786 H			Gibbs Marshall		To provide a list of relevant reports and studies; Dr. Glockner's tests on stress gauges
	8805-06			Gibbs		Reports made by Foothills concerning the cross delta route to be produced
	8818			Gibbs		Foothills to submit to the Inquiry reports if and when they become available and finalized, as to meetings with D.P.W; bridge use
	8866			Scott Mirosh	MVPI	To prepare a prototype of the ditching and bending procedures; ditch specifications; contour of ditch as altered by padding & bedding

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63	9031	Sept.17	YK	Gibbs	Foothills	Sound survey data on compressor noise levels in Alberta		
	9061			Mirosh	Foothills	Sites where helicopter transport will be only mode		
	9062-63			Mirosh		To provide sites which will require exclusive use of snow roads for transport		
	9064-65			Mirosh		List of helicopter models Foothills intend to use		
	9087			Mirosh		Submit report by consultant on disposal of treated effluent in swampland		
	9;09			Beer	Foothills	Areas to be classed as noise sensitive for social or environmental reasons		
	9110			Beer		Name of Alberta compressor station and noise attenuation techniques applied referred to in direct evidence		
	9112			Beer		Consultants reports re ground concentration of exhaust emissions from compressors		
64	9240			Sept.18		Hushion	Foothills	To provide Inquiry with data from winter testing of coatings for corrosion prevention
	9362					Hwang	Foothills	Report on quantification of effects of consolidation
	9381	Mirosh				Alterations in route to be presented to the Inquiry		
	9388-89	Hollingworth	Foothills			To produce Claridge's recommendations on route revisions; and decisions re those recommendations		
	9413	Spafford	Foothills			To provide the name of the document which extends the EPB report on stream and river flow data		
	9423	Mirosh				To prepare list of rivers suitable as granular source		
	9432	Spafford				To present results of geothermal model data re moisture migration		
65	9565	Sept.19				Claridge	Foothills	Detailed report on sheet flow, drainage, run-off flow
66	9705	Sept.22		Hollingworth		Report on snow availability & ice load to be produced when complete		
	9800			Kosten Mirosh	Foothills	Operations & training manual to be submitted to Inquiry		
67	9962	Sept.23		Mirosh		To present configuration to show how curve of pipe is to be achieved		
	9971			Mirosh		Associated Engineering Report on sewage lagoons and incineration to be submitted		
	9992-94			Mirosh		Number and location of environmental inspectors		
	10014			Mirosh		Locations of beaches where fuel will be stored in barges		
	10111			Hushion	Foothills	Calculation of annual tonnage requirements for operations and maintenance		
71	10600-01			Oct. 14		Hollingworth		Presenting a report on ice scour of the east channel of the Mackenzie River below Tununuk Point
78	11599	Oct. 23		Hollingworth		Foothills statement re: compliance to expanded guidelines with regards to alternate routes and corridors, to be provided		
88-A	13352-53	Nov. 17		Gibbs	Foothills	Outstanding reports requested by other participants		
99	15007-08	Dec. 9		Hollingworth Marshall		Request by CAGPL for Foothills reports		
	15057			Hollingworth		Foothills list of documents has arrived		
100	15188	Dec. 10		Hollingworth		Will produce list of toxic substances to be used		
	15212			Whitney	Foothills	Considering study of Bluenose caribou herd moving into reindeer territory		
	15267			Whitney		Adding to list of potential mammal harassment phenomena		
	15316-18			Hayden Bouckhout	Foothills Foothills	Will inform Inquiry of refined protection measures for commercial, domestic fisheries; will supply research program for environmental work on community laterals		
	15325			Finney	Foothills	Will inform Inquiry of recommendation re location of Taglu gas scrubbing plant		
	15345			Bouckhout		Will supply realignment at Fort Good Hope, mile 280		
	15356			Whitney		Will supply information on Debach, author of Bluenose herd report		
	15361			Whitney		Will supply <u>Science</u> article on reindeer herding		
	15374			Whitney		Answer to Bayly's question re aerial harassment of mammals		

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101	15401-02	Dec. 11		Bouckhout	Foothills	Foothills to make summaries of their further studies, concepts, programs available to Inquiry
C-25	2569	Sept. 8	FS	Ellwood	Foothills	Co-operative effort - Foothills, Fort Simpson re: spur line, water line construction
131	19939	Mar. 17	YK	Gibbs	Foothills	Will supply studies of consideration of summer construction, Richards Island
146	22224-25	Apr. 27		Hollingworth	Foothills	Foothills filed material as previously requested: 1) report on drill stem hole south of Fort Simpson requested by CAGPL 2) plans on sewage disposal as requested by Scott 3) details on A.G.T.L. compressor station noises as requested by Scott 4) report entitled "Terrain Study and Thaw Settlement Analysis" requested by CAGPL 5) information on possible changes to the composition of material covering pipe and stream crossings, NEB deficiency letter answers, requested by COPE/ITC 6) Configuration on how looping would be achieved for a typical joint between spreads as requested by Scott
146	22225-26	Apr. 27	YK	Hollingworth		7) Report entitled "Winter Roads and Working Pads Operations and Scheduling" as requested by EPB 8) List of toxic substances to be used in testing and in operating compressor stations 9) Description in its initial stages of Foothills proposed orientation program 10) Research design relative to aquatic systems and a program anticipated for the laterals 11) Copy of an article that appeared in "Science" magazine 12) An account of the scope of the monitoring program envisaged by Foothills 13) A proposal for a critical path chart relative to emergency repair. Material still to be provided: 1) Experiments on pipe coating - material not available until the final stage 2) Geotechnical studies to be used as a basis to prepare estimates for where blasting concrete weights backfilled for buoyancy control as requested by CAGPL - material to be provided in final design stage 3) Construction workers procedures manual as requested by COPE/ITC - not available until time of construction 4) Information on Fort Good Hope relocation - still under discussion
148	22567	Apr. 29		Hollingworth		To determine source of number of trappers, whether Foothill figures originate from Gemini North Survey, 1972
C-67	7807	June 8		Hollingworth		Brody; to be sent copy of Exhibit 507, Brody's report as filed by Webb
165	25603	July 19		Jensen	Foothills	Will supply Reesor with exact reference in NWT Housing Corporation publication
	25620-21			Burrell	Foothills	Information on cost of converting from fuel oil to gas requested by Commission Counsel filed as part of Exhibit No. 226
166	25678	July 20	YK	Hollingworth		Document requested by Reesor, "Housing Program, Proposals for Home Operations and Home Acquisition Assistance"
199	31486-87	Oct. 15		Hollingworth		Has provided list of items to be purchased in North by Foothills, medical and first aid facilities at construction camps
200	31612	Nov. 15		Scott	MVPI	Submission of documents published on behalf of Foothills
201	31801	Nov. 16		Gibbs		To respond to Commission Counsel Report

FOREST INDUSTRIES

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XXXIII	4338	Apr. 21	YK	Dau	CAGPL	Marketable timber, rip-rap
47	6218-20	June 3		McT-Cowan	EPB	Logging alters wildlife habitat, recommendations
C-10	982-83	June 27	F.N.	J. Blonoon	Citizen	Land use permit, salvageable timber
C-11	1005	July 8	F. McP.	M. Kunnizzi	Citizen	Water resource people burning great deal of wood, Fort McPherson area
C-13	1261	July 10		J. Charlie	Citizen	Piling needed by CAGPL
C-14	1274-76	July 11	O.C.	P. Nukon	Citizen	Wood very important to people of Old Crow
	1285			P. Lord	Citizen	Timber, Old Crow area
67	9839-42	Sept. 23	YK	Bauer	Foothills	Disposal of timber after clearing by wood chipping or burning sleds
	9934-35			Mirosh	Foothills	Land clearing of marketable timber
79	11698	Nov. 3		Minning	CAGPL	Good commercial timber at Oscar Creek Gap borrow site
	11700			Minning		Timber harvested, stockpiled according to regulations
80	11939-45	Nov. 4		Williams	CAGPL	Merchantable timber to be stacked; fire hazard
90	13680-92	Nov. 19		Dabbs	CAGPL	Possible market for trees on right-of-way; control; use by gas producers
	13729-30			Dabbs		Rotting of unused timber from right-of-way
102	15583-85	Dec. 12		Zoltai	CARC	Harvesting trees in Delta for pilings; age, growth rate of trees
	15671			Novakowski	CARC	Cutting trees, Fort McPherson area
C-31	3020-22	Oct. 7	FR	Menez	Citizen	Historical development of sawmill industry, semi-portable sawmills and destructive practices
	3029-31			Menez		Fort Resolution - potential sawmill development; local materials utilization by applicant
112	17086-90	Jan. 20	IN	Bliss	GPC-D	Cutting trees, Delta area, for construction pilings, possible regeneration problems, alternative source
114	17290	Jan. 22		Mainland	GPC-D-I	Taglu gas field, timber for piles from Fort McPherson area.
	17359			Hollingworth	Foothills	Foothills will use wooden piles for wharves
	17385-86			Mainland Hollingworth		Taglu gas field, use of wooden piles, sources; Foothills pile requirements
115	17495	Jan. 23		Faulkner	GPC-D-S	Shell will not be directly involved in cutting timber for piles
	17573			Bayly Stamberg	COPE/ITC GPC-D-G	Parsons Lake gas field may use Fort McPherson timber for pilings.
146	22242-44	Apr. 27	YK	McCullum	NWT IB/MA	Logging development in Nass River valley of British Columbia
	22271-74			Jones	NWT IB/MA	Tree farm licences, multinational corporations; clear cutting effects on hunting, trapping
C-51	5111	May 12	VAN	T. Pearse	Citizen	Impact of logging on Terrace, B.C. and area
169	26309-13	July 23	YK	Ruttan	NWT IB/MA	Calculations of available timber, approximate, potential for mill at Fort Simpson, particularly associated with pipeline development
	26351			Ruttan		How pipeline construction would assist lumber industry
179	27776	Aug. 27		Lowing	MVPI	Use of local lumber products for housing construction
197	30991	Oct. 13		Bergasse	MVPI	An entrepreneurial opportunity, sawmill/pole yard
	31005-07			Bergasse		Role of Department of Economic Development to develop capacity to utilize resource; involvement with sawmill operations at Fort Resolution and Jean Marie River; furniture plant at Hay River
204	32346	Nov. 19		Parker	NWT Govt	Federal forest protection policy, protection of wildlife habitat

FOUNDATIONS AND PADS (continued)

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67	10045	Sept. 23	YK	Hushion	Foothills	Foothills requires less maintenance of pads at compressors
74	11006	Oct. 17		Williams	CAGPL	Snow pad parallel to haul road; gravel pad construction
75	11029-34	Oct. 20		Parker	CARC	Alyeska experience re: thin work pads, depth and gravel demands; abandonment
	11080			Weedon	CARC	Impact of a pad or river crossing on the flow of water, creation of a barrier
76	11162	Oct. 21		Parker		Use of a thin work pad; gravel shortage in Alaska; maintenance
	11185-86			Parker		Gravel needs; thin work pads
80	11819-20	Nov. 4		Clark	CAGPL	Use of piles in cases of excessive thaw settlement; economic aspects of inhibiting frost heave
81	12064	Nov. 5		Minning	CAGPL	Crushing machines to pulverize bed material
82	12284	Nov. 6		Clark		Concern that the operation of placing pipeline on piles to counteract heave after construction environmentally disruptive
83	12377-12406	Nov. 7		Scott Environmental Panel	MVPI CAGPL	Gravel requirements, Thunder River compressor station; quantities, qualities, scarcity of supply; storage on pad; gravel stockpiling on pad
98	14877-81	Dec. 8		Gunn	CAGPL	DEW line sites, North Slope
114	17283-91	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas field, drilling pad size, spacing of well heads; additional area for infill drilling; pads for other uses
	17322			Stewart Mainland	GPC-D-I	Taglu gas field, more gravel could be needed for infill drilling pad
	17345-46			Mainland		Construction of pad using sand core
	17389-95			Mainland		Taglu gas field, erosion of pads by flooding
	17433			Faulkner	GPC-D-S	Niglintgak gas field pad construction, size
131	19873-86	Mar. 17	YK	Williams	CAGPL	Depth of gravel, Delta installations; using styrofoam to save gravel; gravel requirements; excess pad gravel for backfill; gravel work pad required on ROW if no snow available
132	20108-09	Mar. 18		Williams		Work pads, wharves in Delta
	20145-46			Williams		Gravel used in pads on Delta; other materials used
134	20276-79	Mar. 24		Gunn Webb	CAGPL	Pads on either side of Shallow Bay to be constructed summer before crossing, impacts on birds, whales
194	30285-87	Oct. 6		Templeton	EPB	Foothills' proposed 50 mile gravel pad not a necessity for pipeline construction
195	30456-57	Oct. 7		Mirosh	Foothills	Granular pad to be employed on spread I
	30463-522			Bayly Mirosh	COPE/ITC	Use of Tuk to Inuvik permanent road instead of gravel pad; pad utilization for looping on North Slope; gravel road, pad compared; ability of construction equipment to perform during winter
	30550-55			Byers	Foothills	Position re pipeline construction on North Slope in summer using pad
	30574-78			Mirosh Kosten	Foothills	Blasting through gravel pad; drainage access concerns

FUELS AND OTHER TOXIC MATERIALS

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XIX	2198-2206	Mar. 17	YK	Williams	CAGPL	Sans Sault test site; fuel storage facilities
XX	2387-89	Mar. 18		Clark	CAGPL	Testing fluids, fuel, toxic materials, impact on aquatic ecosystems; methanol
XXII	2580-83	Mar. 20		Hardy	CAGPL	Chemical grouting - prevention of frost heave, jell-toxic
XXIX	3673-78	Apr. 14				Methanol-water testing, disposal-distillation, dilution
XXX	3733-34	Apr. 15		Kosimaki	CAGPL	Propane, diesel storage
	3762			Purcell	CAGPL	Methane, heavier hydrocarbon components

FOUNDATIONS AND PADS

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XIX	2205-06 2208	Mar.17	YK	Williams	CAGPL	Sans Sault test site Compacted snow over vegetation, ROW
XIXA	2265-70	Mar.17		Clark	CAGPL	Compressor stations; communications towers; wharves; non-permafrost and permafrost areas; air spaces; refrigerated piles; design, geothermal data; fill pads
XXIII	2677-78	Mar.21		Hollingshead	CAGPL	Borrow material for compressor stations & communications tower
XXIV	2862-65	Apr.7		Clark Hardy	CAGPL	Compressor stations - vibration - effect on permafrost
	2872-75			Clark		Design change - foundations
XXIX	3654	Apr.14		Purcell	CAGPL	Soil information to design foundations
XXXI	3887-88	Apr.16		Purcell		Compressor stations
XXXII	4039-40	Apr.18		Koskimaki	CAGPL	Compressor station foundation size
XXXIII	4368-69	Apr.21		Dau	CAGPL	Initial use of site as stockpile and camp sites
XXXIV	4401-02	Apr. 22		Dau		Compression stations, gravel pads
	4419			Dau		Pads used as base for construction camps
XXXVII	4759-60	May 13		Bayly	COPE/ITC	West Channel
41	5279	May 20		Fielder	CAGPL	U.S.S.R. pipelines are pile-mounted
43	5577	May 22		Williams		Gravel pads, compressor stations
60	8565-67	Aug. 22		Fawcett	Foothills	Site specific locations have yet to be decided for compressor stations
53	7082-91	Aug.13	WH	Williams		As aid in summer construction
	7088-90			Williams		Alyeska use of haul roads and pads
54	7535-36	Aug.14		Parker	CARC	Snow pads for winter construction; winter work pad to allow mobilization of heavy equipment; styrofoam insulation
	7546			Weedon	CARC	Snow required to construct snow roads and snow pads; water sources; Arctic gas to use snow roads and snow work pads during winter; El Paso to use snow pad to lay pipe
55	7636	Aug.15		Morlan	CARC	Construction and usage may destroy archaeological sites
61-A	8703	Sept.15	YK	Mirosh	Foothills	Ditch materials; ice content, soils; pipe supports
	8715-18			Bauer	Foothills	Frost heave areas; borrow materials; excavation materials; ditch depth; drainage requirements, revegetation; backfill material
	8723			Walker	Foothills	Work pads to be left in place to serve as future storage area for mainline construction requirements
62	8853	Sept.16		Mirosh		Pipe support structures
63	8996	Sept.17		Beer	Foothills	Gas turbines are light and compact thus compressor stations and foundations are smaller
	9011-19			Panel 7	Foothills	Size of pads insufficient if pipeline is looped
	9024			Mirosh		Environmental disruption caused by looping rather than preparing acreage required during initial construction of compressor sites
	9083			Mirosh Lazerte	Foothills	Pads & lining for sewage lagoons; problems in permafrost
64	9421	Sept.18		Spafford	Foothills	Use of spoil material from river crossings for work pads
65	9546-47	Sept.19		Davison	Foothills	Thaw settlement problems - pipe supports
	9608			Bauer		Mound to prevent frost penetration abnegates need of padding placement
66	9689-90	Sept.22		Mirosh		Borrow requirements for compressor station pad
	9759-63			Kosten	Foothills	Use of borrow & select backfill after blasting
	9772-76			Mirosh Bauer	Foothills	Bedding of the trench; amounts of fill & borrow required
67	9844-46	Sept.23		Mirosh		Scheduling of construction of pads
	9950-59			Bauer		Working surfaces along right-of-way; differences between CAGPL and Foothills plans
	9966-67			Kosten		Concrete weight fabrication to be done on construction pads; pads at compressors; drainage from pads; sewage lagoons at construction pads

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XXXI	3906	Apr. 15	YK	Purcell	CAGPL	Chemical pipe coating
	3933			Koskimaki		Engine lubricants, tri-ethylene glycol water, mixture-coolant
	3971-92			Reid	CAGPL	Methanol testing, storage
XXXII	4001-03	Apr. 18		Koskimaki		Catalogue of fuels, chemicals and lubricants
	4069-72			Reid		Methanol recovered and released
	4113-15			Purcell		Gas as fuel for compressor stations, alternatives
	4119-24			Reid		Methanol - spill, recovery, effect on vegetation
	4124-31			Reid		Distillation of methanol for disposal
XXXIII	4296	Apr. 21		Dau	CAGPL	Methanol, change in requirements
	4331-34			Dau		Construction fuel
XXXIV	4514-16	Apr. 22		O'Rourke	CAGPL	Fuel origin, requirements, transportation
XXXV	4590-91	Apr. 23		O'Rourke		Percentage of fuel barged for CAGPL
	4623			O'Rourke		Fuel for ditching machines
XXXIX	5062-64	May 15		Dau		Fuel requirements, transportation to storage tanks
40	5217-19	May 16		Hurd	CAGPL	Aircraft fuel storage, landing sites, helipads, propane storage
41	5335-37	May 20		Hurd		Synthetic lubricants, storage facilities
47	6164-65	June 3		Wilimovsky	EPB	Test fluids (methanol) and pollutants (spills)
	6171			McT-Cowan	EPB	Source of impact to birds
	6186-92			McT-Cowan		Pollution from spills into water bodies - impact on birds
47	6219-22	June 3		McT-Cowan	EPB	Oil spills, CWS research; recommendations
48	6410-13	June 4		Craik	EPB	Sewage and garbage to be rendered harmless
	6417-20			McT-Cowan		Spills danger to birds, mammals
50	6647	June 6		Marshall	CAGPL	List of chemicals, fuels and lubricants at compressor stations
C-4	203-208	May 28	Hay River	Horte	CAGPL	Costs of heating with propane, diesel fuel/natural gas
C-10	839	June 26	W.L.	J. Blondin	Citizen	Discovery of oil in N.W.T.
C-11	996-97	July 8	F.McP.	C. Koe	Citizen	Diesel fuel, oil found in lakes
C-12	1107-09	July 9		Elwood	Foothills	El Paso, composition of Alaska gas: poisonous gas, Alberta
C-13	1223	July 10		J. Semple	Citizen	Oil spills in Yukon River
C-14	1358-59	July 11	O.C.	A. Charlie	Citizen	Oil, gas from drums spilled on ground
C-15	1372-78	July 12		W. Moses	Citizen	Breaks in the line, spills
C-16	1520	July 13		A. Charlie	Citizen	Drums with oil or gas in them left behind, spills
C-17	1670	July 16	F.L.	J. Klondike	Citizen	Chemicals used by seismic crews
	1678-79			W. Sassie	Citizen	Oil seepage from capped wells
	1682-84			J. Savage	Citizen	Oil leak in Bovie Lake
	1686			F. Bertrand	Citizen	Chemicals used by seismic crews, killing wildlife
54	1751	July 17		McLeod	Citizen	Break in the line, impact on fish
	7433	Aug. 14	WH	Geist	CARC	Impact of oil spills and activities which are beyond the Applicant's control on the calving grounds
	7481-82			Weedon	CARC	Storage facilities; spills, frequency and impact
	7508			Weedon		Fuels, toxic substances or lubricants would have fatal effects on bird populations; storage sites re danger of spills; off-shore corridor
55	7650	Aug. 15		Banfield	CAGPL	Alyeska, Environmental Impact Assessment; worst case prediction for spills
C-18	1815-17	Aug. 5	FGH	C. Barnaby	Citizen	Oil spill near Norman Wells-Goose Island from tank for Canol line
C-20	2046	Aug. 7		W. Kelly	Citizen	Impact of spills; cause of fires
C-21	2156	Aug. 14	WH	C. Taylor	Citizen	Contribution of oil to change
63	8984	Sept. 17	YK	Lazerte	Foothills	Propane storage, propane units; compressor stations
	9050-59			Mirosh	Foothills	Disposal of incinerated wastes; pipeline condensates; lube oil additives
65	9599	Sept. 19		Mirosh		Greater requirements of CAGPL pose different problems in shipping and storage than Foothills faces
66	9777-80	Sept. 22		Mirosh		Fuel requirements of project

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67	9971-76	Sept. 23	YK	Mirosh Kosten	Foothills Foothills	Residues or oils resulting from bending; chemicals produced in testing; disposal
	10012-21			Mirosh		Storage of fuel in barges; dyking at stockpile sites
68	10109	Sept. 24		Hushion	Foothills	Use of chemical controls for revegetation
	10111			Hushion		Movement of fuel and parts by barge for maintenance
	10124-27			Mirosh		Transport of fuels by tanker to Tuk
	10200			Templeton	FPB	Possibility of oil spills; problems of an oil pipeline
75	11125-26	Oct. 20		Weedon	CARC	Spilling of toxic materials, damage to waterfowl; entrance into sub-surface drainage system and lower freezing temperatures of ground water affects frost bulb formation and pipeline integrity
76	11180	Oct. 21		Weedon		Waterfowl losses due to oil spills; migration season
	11224-28			Parker Weedon	CARC	Spills of petroleum products; effects on frost bulb; use of methanol; water quality, ground water system
80	11951	Nov. 4		Dabbs	CAGPL	Herbicides not to be used
81	11994-12000	Nov. 5		Williams	CAGPL	Contingency plans for spills; methods of re-fuelling; storage of chemicals
	12090-91			Hemstock	CAGPL	100,000 oil barrels buried at Norman Wells; CAGPL planning to use bulk storage tanks for oil
82	12150	Nov. 6		Dabbs		Storage and handling of nitrogen (fertilizer); impact of nitrogen and phosphorous
	12196			McCart	CAGPL	Disposal of methanol into Mackenzie and Porcupine rivers
83	12403	Nov. 7		Scott Williams	MVPI	Use of antifreeze on gravel piles, Thunder River
84	12571	Nov. 8		McCart		Danger of campsite near water bodies; fertilizer, chemicals
85	12675-88	Nov. 12		Bayly Hemstock Williams	COPE/ITC	Sewage treatment chemicals, pipe test fluid discharge, transportation storage, lubricants
85A	12792			Hemstock		Hydro-carbon liquids as compressor fuel
	12796-98			Scott		Spills, contingency plans
86	12979-82	Nov. 13		Lawrence	Foothills	Chlorine, water and sewage treatment
89	13561-65	Nov. 18		Dabbs		Effects of methanol on vegetation
90	13604-20	Nov. 19		Dabbs		Effects of methanol, fuel oil on vegetation, tests
	13660			Dabbs		Oil spills, effect on vegetation
	13760			McCart		Oil spill, impact on fish
91	13836-43	Nov. 20		McCart		Methanol, impact on fish, studies
	13945-52			McCart		Methanol, impact on benthos, fish, insects
92	13995-97	Nov. 21		McCart		Synergistic effect of high silt load and toxic chemicals on fish; contingency plans
	14011-15			McCart		Possible contamination of aquatic ecosystems by chemical spills; Torry Canyon disaster, clean-up techniques including chalk
	14019-27			McCart		Clean up of oil spills e.g. during transit; contingency equipment already in existence; methanol experiment
93	14068-76	Dec. 1		McCart		Effect of methanol waste on fish eggs; disposal of methanol in the Mackenzie River; spawning of fish in the Mackenzie
	14086			Hemstock		Location of wharves, probability of spills re: domestic fishing sites
95	14455-58	Dec. 3		McCart		Environmental concern, ancillary impacts; fish
	14474-76			McCart		Methanol - disposal; water systems; fish
96	14619	Dec. 4		Marshall	CAGPL	Possibility of providing fuels for construction needs minor if moved through Whitehorse and via the Dempster
98	14869-71	Dec. 8		Scott Gunn	MVPI CAGPL	Oil spills, impact on birds, safety measures
	14884-89			Gunn		Effects of oil spills on waterfowl
100	15186-88	Dec. 10		Bouckhout	Foothills	Taken into account in impact studies; list of substances
	15198-200			Finney	Foothills	Safeguards for fuel loading on barges; possible effects, spill Axe Point
	15301-06			Hayden	Foothills	Experiments, methanol, other toxic materials, effects on fish, benthic organisms

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102	15623	Dec. 12	YK	Novakowski	CARC	Potential impact on beavers of oil spill
	15672-74			Novakowski		Impact of oil spill on beaver, muskrat, ducks
103	15737-39	Dec. 15		Stein	CARC	Methanol usage in pipeline testing - impact on aquatic organisms
	15775-77			Steigenberger	CARC	Recommendations re: storage facilities and transport of refined petroleum
	15794-95			Millen	CARC	Fisheries Act Regulations for Yukon Territory & N.W.T.
	15827-30			Stein Marshall	CAGPL	Methanol toxicity to fish; recommendations
104	15871	Dec. 16		Stein		Further study recommendation
	15952-65			Stein Walker Steigenberger Millen	CARC CARC	Methanol in combination with pipeline substance re: pre-discharge analysis, disposal in lakes, systems, land
106	16261	Dec. 18		Lent	CARC	Fuel spills re: products used in camps
108	16457-58	Jan. 13		Wilimovsky	EPB	Impact of oil spills on fish, mammals and birds
	16532-33			McT-Cowan	EPB	An oil spill would be disastrous for the muskrat areas of Old Crow, Mackenzie Delta, Ramparts River area; Peel River especially if there were heavy onshore winds
109	16603	Jan. 14		Templeton	EPB	Oil spills; Alyeska; construction oil spills
C-25	2539-41	Sept. 8	FS	Berger R. Lamothe	Citizen Citizen	Oil pipeline - environmental impact
C-29	2868-69	Sept. 12	JMR	Antoine	Citizen	Damage to environment and animals re: beaver hide soaked with oil
C-33	3212-15	Oct. 9	FS	Lisk	Citizen	Oil spills re: destruction of land, fish; compensation
C-38	3666-71	Feb. 15	In	Berger Mirosh	Foothills	Potential for, impact of a Beaufort Sea oil well blowout; compensation to people affected by a pipeline well spillage
112	17105-07	Jan. 20		Bliss	GPC-D	Possible impact on horsetail population in Delta; studies of oil spill impact on vegetation
	17114-16			Bliss		Chemicals used in drilling process, possible effects on Arctic eco-systems
	17122			Bliss		Impact of spill on aquatic vegetation
114	17283-99	Jan. 22		Mainland	GPC-D-I	Taglu gas field, disposal of drilling solids, fluids; other materials carried in pipes; storage; handling at dock; materials barged in
	17306-07			Mainland		Taglu gas field, construction, fuel requirements
	17360-71			Mainland		Taglu gas field, fuel requirements for construction of plant; disposal sumps design, lining; contingency plans for handling toxics barged in; drilling materials disposal; list of drilling substances to be provided
114	17386-87	Jan. 22		Mainland		List of chemicals used in Taglu gas field not yet given to environmentalists; alternative chemicals possible
	17434-35			Faulkner	GPC-D-S	Niglintgak gas field, well flare equipment, liquids storage
115	17457-64	Jan. 23		Faulkner		Niglintgak gas field, disposal of drilling fluids, containment sumps; contingency plans for toxic chemical release
	17494			Faulkner		Niglintgak gas plant, liquid hydro-carbons will be used for fuel, no surplus for sale
	17500-01			Faulkner		Niglintgak gas field, use of methanol to depress hydrate formation in gas lines, disposal

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115	17514-17	Jan. 23	IN	Ballew Faulkner	GPC-D	Niglintgak, barging of fuel; breakdown of "100 tons miscellaneous drilling materials " in land tenure application support information
	17543			Stamberg	GPC-D-G	Parsons Lake gas field, storage of liquids
	17554-55			Stamberg		Parsons Lake, fuel requirements
	17569-72			Guyn	GPC-D-G	Parsons Lake; fuel storage
	17592-602			Marshall	CACPL	Admissibility, relevance of evidence of COPE/ITC witness D.R. Shaw, "Handling of hazardous materials in oil and gas field development in Alberta"
116	17624-27	Jan. 24		Scott Stamberg Guyn	GPC-D-G GPC-D-G GPC-D-G	Production of liquid hydro-carbons, diesel and naptha; prevention of fuel spills from barges and loading sites
	17655-56			Rempel	GPC-D-I	Contingency plans to minimize effects of accidental spills; oil industry co-operative to combat spills, "Delta Environmental Protection Unit," Clean - up equipment and material available
	17677			Rempel		Course on oil-spill clean-up at Petroleum Industry Training School
	17681-86			Rempel		Oil spills clean-up equipment; use of dispersants; toxicity of disturbance to fish and marine animals
	17698-701			Rempel		Oil spills on ice, under ice and in moving ice, clean-up procedures
	17709			Appleton	GPC-D-G	Environmental effects of sulphur dioxide
117	17819	Jan. 26		Rempel		Barge transport of fuel for DEW Line, Inuvik and oil industry
119	18143-80	Jan. 28		Shaw	COPE	Impact of oil industry on environment, effect on animals, fish; oil spill clean-up, prevention, restoration; sump fluid disposal; contingency plans
	18235			Pimlott	COPE	Environmental impact of hydrocarbon spills
	18248-51			Pimlott		Oil spills, characteristics, comparative rates of spills
121	18366-87	Feb. 10		Percy	COPE/ITC	Physical, biological factors influencing the spread characteristics and impact (physiological, behavioural) of spilled oil in Arctic marine ecosystems
	18395-402			Grainger	COPE/ITC	Crude oil - impact on rates of bacterial nitrogen fixation, denitrification, bacterial biodegradation potential, phytoplankton, seaweed productivity
	18405-24			Percy		Impact of crude oil on marine invertebrates in the intertidal, sub-ice, water column, sediment zones; crude oil weathering re toxicity; oil impact marine ecosystem studies required
	18430-38			Stein	COPE/ITC	Impact of drilling fluids, waste water; oil spills on aquatic resource; sensitive coastal areas near Delta; oil spill clean-up techniques, monitoring of impact areas
	18439-54			Barry	COPE/ITC	Oil spillage on ice surface-impact on migrant birds requiring open water leads; susceptibility of birds in moult to oil spill, coastal pollution; rehabilitation of oiled seabirds; prediction of oil spill impact
122	18490-91	Feb. 11		Sergeant	COPE/ITC	Effects of oil spills on white whale calving habits, sites

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122	18500	Feb. 11	IN	Smith	COPE/ITC	Study by Smith, Geraci, 1976 - effect of crude oil on captive ringed seals
	18504-14			Smith		Beaufort Sea seal studies - effects of immersion in, ingestion of oil; impact of oil exploration on seal migration; recommended studies - chronic effects of oil contact
	18550-51			Stirling	COPE/ITC	Need for studies on polychlorinated biphenyl (P.C.B.) contamination in seals, polar bears
	18562-72			Stein Barry Sergeant	COPE/ITC COPE/ITC COPE/ITC	Oil spillage - impact on, susceptibility of birds, recovery period for birds, fish after spill
	18592-97			Stein Barry Percy	COPE/ITC	Oil leakage into Blow, Babbage, Firth, Ramparts, Rat, Mackenzie Rivers - impact on waterfowl, fish habitats
	18609-10			Grainger		Inhibition of plant production in oil covered seas
	18617-19			Sergeant		Impact of oil spills on whales
	18640-41			Smith		Impact of oil spillage on seal birth lairs
	18640-41			Percy Stein Barry Grainger		Arctic marine ecosystem - duration of restoration period following oil spill; Balaena Bay under-ice oil spill; evaluation of mechanical, chemical dispersant techniques; time period required for further Beaufort Sea Studies; oil compounds - passage in food chains; pollution biology sublethal effects and behavioural responses
	18699-705			Stein		Toxicity of drilling fluids to fish
	18715-16			Smith Stirling		Mercury levels in seals in Holman area
122	18720	Feb.11	IN	Barry		Taglu oil spill
124	18900-04	Feb.13		Lewis	COPE/ITC	Oil movement to coastal segments, storm surges - delta inundation
	18921-22			Lewis		Near shore oil movements
	18925-33			Lewis		Conditions determining severity of blowout impact on environment; impact of oil on aquatic ecosystem (general); Canmar - counter-measures to deal with blowout
	18941-94			Milne	COPE/ITC	Underwater oil and gas well blowout scenario - possible transport of oil - winter (1976) to summer (1977) from 3 Beaufort Sea drill sites, effect of oil spillage on climate; relief well drilling - interruptions due to ice, oil cleanup escapement estimates, effects of oil on seasonal, resident Beaufort Sea biota population, recovery periods, oil contamination of coastal areas; probability of an oil blowout, existant technology - oil spill counter-measures - effectiveness
	18995-16			Veale Evans	CYI CARC	Environmental risks associated with Beaufort Sea drilling, relief well drilling - Arctic Island provisions; burning off of oil - difficulties in conducting cleanup operations; impact of oil blowout on climate
125	19020-23	Feb.14		Lewis Shearer	COPE/ITC	Coastal buried flowlines - problems - ground ice retreat, line exposure, pings
	19054-55			Lewis		Oil collection in sediment sinks; oil containment in breached lakes

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126	19088-118	Feb. 14	IN	Pettigrew	COPE/ITC	Potential spill sources; areas sensitive to petrochemical spills; recommendations on (a) information which should be incorporated into a comprehensive contingency plan and site specific action plans for toxic material spills, (b) response operations - discovery notification, containment and counter-measures clean-up and disposal, restoration and payment of damages, clean-up costs and fines
	19121-40			Snow	COPE/ITC	Studies - impact of oil spillage on benthic communities in lakes, rivers; ecosystem recovery; self cleaning ability of delta; ice conditions and spill clean-up; impact of oil on birds, fish habitats, beluga whales, aquatic invertebrates, benthic organisms - Caribou Bar Creek experiment; inefficiency of oil containment equipment; problems - gas plant fuel spills; use of surface curtains, dykes in oil containment; impact of methanol spillage; contingency plan recommendations
126	19143-89	Feb. 16		Pettigrew		Interprovincial Pipeline failure - summary of Interprovincial Contingency Plan; degree of success achieved in clean-up of major oil spills in aquatic environments; feasibility of burning oil - emulsification
	19194			Snow		Use of toxic chemicals at delta gas plants
	19204-46			Logan Pettigrew Snow	COPE/ITC	Quantification of oil spill size; application of recommended contingency plan to gas, oil, other materials; migration of oil through brine channels in ice; self cleansing ability of flat Arctic shorelines; efficiency of barge transport of toxic substances; containment of spills from storage tanks during pipeline pressure testing
	19256			Pettigrew		Annual number of pipeline failures in U.S.
	19272-88			Snow Logan		Use of sinkants, dispersants, underwater domes; toxicity of crude oil, refined petroleum products to benthic organisms; rates of oil weathering
132	20100-01	Mar. 18	YK	Williams Purcell	CAGPL CAGPL	Use of methanol test fluid on Delta
	20109			Williams		Dyking of fuel storage; storage on pads
133	20116-118	Mar. 23		Scott	MVPI	COPE/ITC's intention to present evidence on Mizushima oil spill; availability of CAGPL's report on oil spill contingency plans
	20147			Jakimchuk	CAGPL	Oil spills, danger to Delta beaver, muskrat
	20201			Jakimchuk		Potential impact of hot oil pipeline break, spill on mammals
134	20211-13	Mar. 24		Webb Gunn	CAGPL CAGPL	Possible impacts of oil pipeline failure on whales, birds, Shallow Bay
135	20482	Mar. 25	YK	McCart	CAGPL	Will review CAGPL's contingency plans for fuel spills
	20491-94			McCart		Danger to fish of oil spill from oil pipeline in corridor
	20550			Hemstock		Preference for Delta route with regard to oil spill risk if oil pipeline follows corridor
	20588-90			Sprague	MVPI	Impact of insecticide on aquatic systems; recommendation for spraying
	20595-601			Sprague		Regulations, standards for petroleum, sewage, temperature increase, methanol in waterbodies
136	20620	Mar. 26		Banfield	CAGPL	Oil spill risk at compressor stations, "DEW line route", North Slope
	20630-35			Sprague		Effects of oil refinery wastes on aquatic life
	20636-50			Sprague		Studies of effects of toxic materials on aquatic life
	20661-77			Sprague		Effluent discharge into water, regulations; insecticides impact on fish of pollutants; regulations re oil; drilling muds

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136	20710	Mar. 26	YK	Peet	MVPI	Possible impact on fishery
139	21170-72 21208-76	Apr. 7		Stephen Nicol	MVPI COPE/ITC	Athabasca River oil spill - attempts at containment Mizushima oil spill - summary of sequence of events, contingency plans, equipment, methods, environmental impact
140	21277-98 21356-68	Apr. 8		Nicol Allison	 COPE/ITC	Oil storage; dyke walls; Environment Emergency branch of DOE - role in contingency planning; efficiency of oil removal equipment; social conflict associated with oil spills; joint industry, government contingency planning Cape Parry, Balaena Bay oil spill experiments; Environmental Protection Service - proposed offshore oil spill studies
C-40	3842-43 3845 3866 3872	Feb. 23	AK	F. Elanik Rowe Berger Archie Rowe Greenland Kayutak	Citizen CAGPL Citizen Citizen Citizen	Prevention of leaks, repair Clean-up procedures Oil spill clean-up, time; impact of oil pollution on marine life Oil pollution in his trapping area by oil companies; clean-up crews polluting water
C-41	3926 3937 3943 3952-53	Mar. 3	HOL	Memoganak Pagotak Kataoyak Inuktalik	Citizen Citizen Citizen Citizen	Impact of oil spill on seals, cracks in ice as breathing holes Oil spills in ice water Impact of an oil spill on Holman Island Oil spread after blowout
C-42	4048-50 4093-108	Mar. 4	SACHS	Hnatiuk A. Carpenter Berger Hnatiuk	GPC-D-G Citizen	Clean-up procedures, relief wells, rubber skirts Clean-up of oil spills in ocean; opinions of Hnatiuk, Milne summarized; relief wells, burning; wildlife recovery from spill
C-43	4149-50	Mar. 7		Kimaksana	Citizen	Impact of blowout on animals, food chain broken
C-44	4163 4170 418P-89 4201-03 4218-19 4317-27 4333-36	Mar. 8	TJK	Koesak Nuyaviak J. Steen V. Steen Potiak V. Steen Hnatiuk Berger	Citizen Citizen Citizen Citizen Citizen GPC-D-G	Fear of blowout, harm to fish Animals will disappear because of oil smell Disaster of a blowout, effect of ocean currents; liquifiable hydrocarbons in gas burned off, air pollution Oil spill will destroy whales, seals, polar bears; Eskimo distrust of little damage to environment Threat to marine life Chances of a blowout, precautions, amount of oil spilled, thickness when spread, relief wells, burning oil off, beacons Dome's claims for oil spill clean-up, points of view re capability
C-45	4362-66 4367-70 4406-07	Mar. 10		V. Steen Norberg Kangegana	 Citizen Citizen	Uselessness of boom for blowout; question of oil trapped in ice, movement of heavy ice Movement of ice and oil spills, impossible to burn oil off Oil from blowout will kill wildlife
C-46	4428-32 4489-91 4496-502	Mar. 11	PAUL	G. Ruben Berger R. Kirby Hnatiuk	Citizen Citizen Citizen	Concern for oil spill on sea, impact on livelihood; crude oil discharge on Balaena Bay, does not trust clean-up procedures Risk of blowout in Beaufort Sea, contingency plans Burning oil on ice; problems with floating ice; winter experiments planned; burning oil at Balaena Bay, time to clean-up

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C-46	4512-17	Mar.11	PAHL	G. Ruben Hnatiuk R. Kirby	Citizen GPC-D-G Citizen	Impact of oil spill on animals, chances of a blowout; impact on seals; amount of oil involved in spill; experiments on oil in ice in summer
C-47	4556-61	Mar.13	ARR	N. Norbert Carter Beer Berger	Citizen CAGPL Foothills	Break in gas pipeline, smell, effect on animals; danger of forest fire; chances of break
C-49	4793	May 10	VAN	Gallon	Citizen	Oil spills, West coast
C-52	5392	May 13	CAL	C. Osborne	Citizen	Large oil spills, Chedabucto, etc.
C-54	5632-44	May 17	EDM	Swift	Citizen	Oil spills on House River, Athabasca River, Great Canadian Oil Sands pipeline
C-55	5873	May 18		L. Mulhall	Citizen	Concern about oil spills, offshore drilling, Beaufort Sea
	5914			P. Hayes	Citizen	Dangers of blowouts, leaks when drilling
C-56	6079-81	May 19	REG	P. Prebble	Citizen	Oil blowouts, offshore drilling
C-59	6413-16	May 26	TOR	N. Zlotkin	Citizen	Mercury contamination, English River - Winnipeg River systems, Wabigoon River
	6473-86			D. MacKay	Citizen	Oil and hazardous material spills - prevention measures, prediction of volumes, clean-up; gas blowouts; chronic oil emissions
	6524-25			M. Edwards	Citizen	Oil spills, blowouts; evacuation of fish from polluted areas; oil detecting sensors
C-64	7341-42	June 3	OTT	Van den Heuvel	Citizen	Speech by Trudeau, 1970, re damages caused by oil spills
C-77	8415	Aug. 26	DET	F. Erasmus	Citizen	Arsenic poisoning from mines, gets into water
	8227			A. Potfighter	Citizen	Arsenic kills water, fish, plants
193	30091-92	Oct.5	YK	Hernandez	EPB	Fuel storage areas should be set back 500 feet from water, dyked with impervious material to contain 125% of total tank capacity
194	30360	Oct.6		Hemstock	CAGPL	Impact of oil spills on rivers expected to be minimal
	30398-400			Hemstock		Formal discussions not yet held with oil spill contingency groups
199	31553-66	Oct.15		Zemansky	COPE	US government agencies concerned with oil handling during Alyeska construction, spill prevention, containment and clean-up; Happy Vally oil spill 1972, environmental impact; Toolik oil spill 1974; Galbraith oil spill 1975, lawsuit filed against Alyeska; Alyeska's mishandling of oil
	31588-99			Zemansky		Public awareness for oil spills, Galbraith oil spill; deliberate withholding of information; difficulty of obtaining information; regulatory authority recommended to ensure spills are cleaned up; development without environmental protection; ineffective clean-up measures, lack of priority
203	32082-83	Nov.18		Anthony	CARC	Impact of oil spill in Delta; environmental and socio-economic

FUTURE CHANGES (APPLICANTS¹)

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C-34	3286-87	Oct. 15	YK	Berger		Arctic Gas change re: river crossings, security of two pipes in case of failure
130	19736-38	Mar.16		Marshall	CAGPL	CAGPL's modifications to accommodate environmental, socio-economic concerns raised before Inquiry
131	19938	Mar.17		Gibbs	Foothills	Consideration of summer construction on Richards Island
138	20918	Apr.6		Hollingworth	Foothills	Alignment sheets, Foothills route, changes in wharf sites, Niglintgak extension, Parsons Lake lateral
195	30448-53	Oct.7		Hollingworth Mirosh	Foothills	Change to Foothills construction plan

GAME MANAGEMENT

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98	14987-15006	Dec. 8	YK	Environmental panel	CAGPL	Game management programme needed due to increased access
99	15033-34 15148-50	Dec. 9		Jakimchuk Bouckhout Finney	CAGPL Foothills Foothills	Surveillance of ROW Management included as part of policing of construction
100	15247-50 15317-18 15378-80	Dec. 10		Whitney Bouckhout Scott Hayden Whitney	Foothills Foothills	Consultation with Territorial Fish and Wildlife Service; importance of management; increased access Detailed knowledge of commercial, domestic fishing areas, harvests useful for developing management plans Information required for management plan more detailed than is being gathered
102	15624-29 15655-60 15660-63 15669-70 15674-83 15685 15698-705	Dec. 12		Novakowski Novakowski Novakowski Novakowski Novakowski Novakowski Novakowski	CARC	Harvesting furbearers; delineating fur trapping areas; rehabilitation schemes for furbearers; harvest by native people, furbearers, animals for food Recommendations, management and preservation of rare, endangered species Future management needs, effects of Foothills line Management of island ecosystems different from mainland Earlier start should have been made; reintroduction of rare or endangered species; animals' habituation to man; no wolf bounty in NWT Joint U.S. - Canada obligation to react to international oil spill to protect polar bears As tool to reduce consequences of pipeline; furbearer harvesting, rationalization of fur industry, trapping season changes
103	15823	Dec. 15		Stein	CARC	Failure to manage Big Fish River Arctic char removal
105	16090-91	Dec. 17		Stein		Legislative change to handle increase and conflict in fisheries
106	16167 16263-64	Dec. 18		Lent Lent	CARC	Evaluation team - biologists, fish and wildlife managing agencies and contractor - re: value of habitat to fish and wildlife resources Unrestricted hunting re: caribou; sale of caribou meat legal
107	16334-39	Jan. 12		McT-Cowan Wilimovsky	EPB EPB	Management of an aquatic resource, determining recreational pressure; all terrain vehicle, greater access, disturbance on wildlife; control of access; mitigative procedures - flight altitudes
108	16444-55 16458-60 16460 16509-10 16522	Jan. 13		McT-Cowan Gourdeau Bliss McT-Cowan McT-Cowan		Herd size dynamics - Porcupine herd; monitoring posting of a surety bond as to the survival of the Porcupine herd, for the construction only or for the life of the project Native peoples should play a larger role; land claims; Fort Chimo, Quebec; experience versus academic qualification Native management of the reindeer herd in the Delta Need for expansion in programs in the Yukon Use of the Porcupine Herd, accessibility
109	16618-29 16695-701 16708-10	Jan. 14		McT-Cowan Wilimovsky Wilimovsky		Responsibility for game management plans, bonds; access; participation of the developer, government, public, regulations - applicability; trapping, hunting and fishing rights; enforcement; refuge scheme in Alaska Program in the N.W.T. for fish; research - population dynamics, harvests; standards Fish management; research
110	16769-71 16773-75 16801-06 16829-30	Jan. 15		Bergerud Lent Bergerud Calef Lent Calef Bergerud	CARC CARC	Distribution and movement studies; population studies; post-calving aggregation, birth rates; age structure of those killed; status of the wolf population; need for international agreements; hunting rights, access; forest fires Caribou, migratory behaviour, unwariness, open use of habitat, aggregation makes management and regulation of hunting difficult Need for baseline data, predation, studies; native harvest, monitoring, non-native harvests; changes due to pipeline U.S. and Canadian management of the herd; Federal government versus the Territorial governments

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110	16863-65	Jan. 15	YK	Bergerud Calef	CARC CARC	Non-uniformity of hunting laws in the Territories; management of the Porcupine herd
111	16940-56	Jan. 16		Calef Lent	CARC	Wolf control practices connected with reindeer herd; agencies, enforcement in Alaska, problems; management of Canadian caribou; game harassment; plans completion timing
C-28	2839	Sept. 11	Wr	E. Nayally	Citizen	Game wardens re: protection of animals, effect on Dene hunting
122	18622-32	Feb.11	IN	Stirling	COPE/ITC	Polar bear management inside, outside of Canada
134	20214-19	Mar.24	YK	Jakimchuk	CAGPL	Including recommendations to CAGPL in management plan; handling bears
136	20692-97	Mar.26		Peet	MVPI	Regulations governing fisheries in NWT; recommendations to deal with impact of pipeline construction on fisheries
	20716			Peet		Domestic, commercial fisheries
	20730-31			Peet		Maintenance of fish populations
137	20888-96	Apr.5		Mossop	MVPI	Yukon Game Branch, responsibility; problems of sport hunting, fishing; contingency plans; monitoring wildlife populations during pipeline construction
138	21022-25	Apr.6		Mossop		Inadequate game management program, jurisdictional problem
	21044-69			Bayly Mossop Simmons Stephen Norton	COPE/ITC MVPI MVPI MVPI	Principles of enforcement from Hugh Trudeau's evidence
143	21817-20	Apr.14		Fumoleau	NWT IB/MA	Restrictions on Indians' right to hunt; problems with game laws, white trappers, 1900-20
	21830-35			Fumoleau		Depletion, game preserves; question of government jurisdiction; establishment of Wood Buffalo National Park
148	22638	Apr.29		Rushforth	NWT IB/MA	Caribou hunts supported by Game Management, NWT Government, Great Bear Lake region
149	22775	May 3		Ritter	NWT IB/MA	Peel River band, two sets of game officials and regulations due to location in or near Yukon territory
C-48	4704-34	Apr.30	FS	R. Brunt	Citizen	Game Office, inability to manage; buffalo population crisis
C-59	6518-23	May 26	TOR	M. Edwards	Citizen	Tele-stimulation, warding of animals from locations; costs of system; protection of endangered species
169	26302-13	July 23	YK	Ruttan	NWT IB/MA	Fur yields could be increased by more effective management

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78	11495	Oct.23	YK	Roed	CARC	Anderson River Bird Sanctuary; edge of the shield route
	11497			Roed		Thelon Game Sanctuary, Queen Mine Gulf Bird Sanctuary
	11530-32			Roed		Reindeer Grazing Reserve; east of the Franklins route
99	15065	Dec. 9		Scott	MVPI	Desirability of preserving wilderness areas
100	15207	Dec. 10		Whitney	Foothills	Calef's studies in Mackenzie Bison Sanctuary
	15210-12			Whitney		Reindeer Grazing Reserve, studies of herd
	15240-47			Whitney		Mackenzie Bison Sanctuary, CWS study included woodland caribou data; Elk Island Park set up to preserve wood bison; Reindeer Grazing Reserve defines herd range
	15269-70			Whitney		Overflight regulations, Mackenzie Bison Sanctuary
	15319-25			Finney	Foothills	Taglu gas plant in Kendall Island Bird Sanctuary, impact on birds; relocation of scrubbing plant
	15367-69			Whitney		Mackenzie Bison Sanctuary, impact on wood bison, woodland caribou of Yellowknife/Pine Point lateral
101	15446-47	Dec. 11		Peterson	CARC	Deep Bay Wood Bison Sanctuary, proposed IBP site

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102	15641-59	Dec. 12	YK	Novakowski	CARC	Aransas Refuge, Texas, Wood Buffalo National Park, whooping cranes; Mackenzie Bison Sanctuary, Elk Island National Park, wood bison; Vasso Lake National Wildlife area, California bighorn sheep; Thelon Game Sanctuary, muskoxen; general regulations for National Wildlife areas will be established
	15663-65			Novakowski		Intrusion of Foothills Yellowknife lateral into Mackenzie Bison Sanctuary
109	16659-61	Jan. 14		McT-Cowan	EPB	Wilderness areas, wildlife refuges; IBP sites
110	16774	Jan. 15		Lent	CARC	Kenai National Moose Range, Alaska
	16843			Calef	CARC	Wood Bison Sanctuary; Elk Island
112	17058	Jan. 20	IN	Bliss	GPC-D	Kendall Island Bird Sanctuary, boundaries
	17068			Bliss		Reindeer Preserve, spring, winter reindeer habitat
	17109-13			Bliss		Kendall Island Bird Sanctuary, boundaries; development activities in sanctuary; native use of birds
	17121-24			Bliss		Kendall Island Bird Sanctuary, snow geese feeding outside area in autumn; boundary changes
114	17431	Jan. 22		Faulkner	GPC-D-S	Kendall Island Bird Sanctuary, Niglintgak gas wells all within it; well movements restricted by government regulations
115	17492	Jan. 23		Bayly Faulkner	COPE/ITC GPC-D-S	Kendall Island Bird Sanctuary, all flights within will comply with CMS and land use procedures
116	17651-52	Jan. 24		Rempel	GPC-D-I	Kendall Island Migratory Bird Sanctuary
117	17763	Jan. 26		Bayly Wopnford Webb	COPE/ITC GPC-D-S GPC-D	Flying restrictions into sanctuary; Kendall Island Bird Sanctuary, change of shape, value as a buffer zone, sites within critical bird areas, stipulations on activities
	17783			Rempel	GPC-D-I	Kendall Island Bird Sanctuary, area of prohibited flying
	17787-90			Rempel Wopnford Webb		Kendall Island Bird Sanctuary, activity constraints, land use regulations; transportation into Sanctuary; snow goose nesting colony, disturbance by gas plants
	17794			Goudge	MVPI	Kendall Island Bird Sanctuary, impact of processing plant
121	18449-50	Feb. 10		Barry	COPE/ITC	Cape Parry migratory bird sanctuary - utilization by murre
	18454-55			Barry		Kendall Island re snow geese, whistling swan nesting grounds
	18458-61			Barry		Kendall Island - Taglu oil well study - effects of noise levels on wildlife
122	18494-97	Feb. 11		Sergeant	COPE/ITC	Definition of a whale reserve in western part of delta
	18520-22			Sergeant		Justification of measures defined in whale reserve proposal
	18575-78			Barry		Issuance of seismic, drilling permits of bird sanctuaries
	18581-84			Barry		Modification of Kendall Island Bird Sanctuary boundaries
	18615-17			Sergeant		Inuit hunting in proposed whale preserve
	18683-92			Sergeant		Mackenzie Delta whale reserve proposal
	18718-24			Barry		Expansion of Kendall Island Bird Sanctuary boundaries; aircraft control measures, enforcement in sanctuaries, delta

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129	19668-69	Feb. 19	IN	Speller	MVPI	Migratory Birds Sanctuary regulations, protection, enforcement
	19695			Speller		Kendall Island Migratory Bird Sanctuary, flight restrictions
132	20149-51	Mar. 18	YK	Williams	CAGPL	Niglintgak supply line in Kendall Island Bird Sanctuary; Kumak Channel crossing in summer
134	20250	Mar. 24		Berger		Dr. Sergeant's proposal for a whale sanctuary, Mackenzie Bay
	20262-66			Bayly Webb	COPE/ITC CAGPL	Dr. Sergeant's proposal for whale sanctuary may preclude industrial activities and hunting
135	20509-12	Mar. 25		Gunn	CAGPL	Niglintgak supply line passes through Kendall Island Bird Sanctuary; possible impacts on birds
	20516-17			Gunn		Kendall Island Bird Sanctuary, boundaries could be improved
138	21039-41	Apr. 6		Mossop Stephen	MVPI MVPI	Game sanctuaries under Yukon Game Ordinance, Kluane Park, McArthur; levels of protection; National Wildlife Area, game management
139	21097-110	Apr. 7		Stephen Simmons	MVPI	Policing of and violations of permit stipulations in bird sanctuaries, prosecutions
151	23101-03	May. 5		McClellan	CYI	Creation of Kluane Game Sanctuary
C-44	4225	Mar. 8	TUK	Potiak	Citizen	Exploration not allowed in sanctuaries when birds are there
C-67	7725	June 8	HAL	P. Keddy	Citizen	International Biological Program Ecological Reserves
193	30089-90	Oct. 5	YK	Hernandez	EPB	Activities inside Kendall Island Bird Sanctuary should require CWS approval inspection
201	31734-35	Nov. 16		Marshall	CAGPL	Fairbanks pipeline corridor - passage through Kluane Game Sanctuary
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43	5584	May 22	YK	Horte	CAGPL	Economics of gas supply, Fort Simpson
44	5767-83	May 23		Horte		No specific plans for lines to communities
	5847			Bayly Horte	COPE/ITC	Appropriate distance of pipeline from communities
45	5905-09	May 24		Bayly		Consultations with communities; gas service
50	6679-82	June 6		Horte		Supply to Old Crow economic? Routing affected?
C-1	16	Apr. 2	Aklavik	Furlong	Citizen	Concern that gas service will not be available
C-4	198-208	May 28	Hay River	Phillip	Citizen	Supply to some communities only
	258-259			Monroe	Citizen	Proximity of pipeline to communities
C-5	456-463	May 29		Carter Hushin	CAGPL Foothills	Lateral gas service lines, economic feasibility; Foothills position
C-13	1265	July 10	F. McP.	A. Stewart	Citizen	Gas service will be no benefit; government rental homes
C-16	1585-87	July 13	O.C.	R. Sharpe	Citizen	If gas brought to community, men working to supply wood would be unemployed
56	7937-38	Aug. 18	YK	Blair	Foothills	Use of Mackenzie Valley gas; rate policies
58	8131-37	Aug. 20		Blair	Foothills	Community supply laterals; transportation costs
	8231-32			Blair	Foothills	Introduction of a competitive element into community fuel prices; community use of gas
	8241-43			Blair	Foothills	Foothills consumer gas supply policy; reserves available for community and possible petrochemical industrial use; highest priority to community use
	8285-88			Blair	Foothills	Foothills community gas use policy
59	8340-41	Aug. 21	YK	Mirosh	Foothills	Foothills; field work to be done
	8352			Fawcett	Foothills	Summer field studies; supply laterals
	8358			Bouckhout	Foothills	Considerations, field studies; supply laterals
	8373			Drew	Foothills	Location studies; community supply laterals, terrain typing; areas not covered by Geologic Survey of Canada

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59	8408-09	Aug. 21	YK	Bouckhout	Foothills	Environmental studies; work completed; supply laterals
	8419			Fawcett	Foothills	Foothills initial review re location, environmental impact of community supply laterals
	8468-70			Mirosh	Foothills	Location of community supply laterals, study area of EPB; Yellowknife and Pine Point
60	8559-60	Aug. 22		Fawcett		Community supply lateral, Yellowknife, Pine Point
	8569-80			Fawcett Scott	MVPI	Longest community supply lateral to be between Yellowknife and Pine Point
	8582-88			Mirosh		Land use maps; north route through IBP areas; community supply laterals
51	6814-15	Aug. 11	WH	Hemstock	CAGPL	Potential gas supply to communities within economic reach of the pipeline; laterals and costs; Fairbanks, Fort Yukon pass near most major communities in Yukon
	6820			Hemstock		Mainline route to provide greatest benefits; northern and southern consumers
52	7015-20	Aug. 12		Veale	CYI	Availability of CAGPL gas to Whitehorse
C-21	2087-88	Aug. 9	NW	Burrell	Foothills	Gas supplies to Norman Wells
C-22	2276-50	Aug. 11	WH	Berger		Funding to Association of Municipalities to investigate feasibility
C-23	2276-50	Aug. 14		R. McCandless	Citizen	Recommendations to be mandatory
63	9125	Sept. 17	YK	Wetterberg	Foothills	Pipe requirements included in Foothills manufacturing estimates
65	9586-88	Sept. 19		Claridge Davison	Foothills Foothills	Geotechnical problems foreseen in unchilled laterals; differential settlement
	9593-94			Berger		Foothills directed to bring details of proposed community supply to South Slave hearings
68	10041	Sept. 24		Hushion	Foothills	Gas service to selected communities to be provided by Foothills (not by CAGPL)
77	11475	Oct. 22		Roed	CARC	Cost to construct feeder lines to Yellowknife, Pine Point, Hay River, Fort Smith, is less from an edge of the shield route
78	11522-23	Oct. 23		Roed		Edge of the shield route, logistics, costs
86	12821-22	Nov. 13		Drew	Foothills	Impact, community laterals on physical environment
	12895-98			Drew		Availability, granular material, laterals
87	13171	Nov. 14		Bouckhout	Foothills	Borrow requirements for laterals not included in estimates
99	15114-15	Dec. 9		Bouckhout		Surveys, community lateral routes
	15121-35			Hayden Finney Whitney	Foothills Foothills Foothills	Aquatic systems data, Yellowknife lateral, studies; birds, studies, problems; mammals, studies
	15137			Finney		Insufficient environmental information, Yellowknife/Pine Point lateral
	15172			Whitney		Lack of environmental data, Yellowknife lateral
	15180-85			Environmental panel	Foothills	Gathering environmental information on lateral routes
100	15215-16	Dec. 10		Finney		More environmental data on lateral routes needed
	15274-83	Dec. 10		Bouckhout Whitney		Length of community laterals; impact assessment concentrates on laterals; assessment completion schedule
	15351-52			Whitney		Impact of Yellowknife/Pine Point lateral on muskrat, beaver; mitigation
	15367-70			Whitney Finney		Yellowknife/Pine Point lateral, effects of wood bison, woodland caribou; whooping crane nesting, impact
101	15395	Dec. 11		Hayden		Deficiency in information re: Yellowknife-Pine Point lateral
102	15602	Dec. 12		Peterson	CARC	Proposed Hart Lake IBP site intersected by Foothills Pine Point lateral
	15645			Novakowski	CARC	Yellowknife/Pine Point lateral transects Mackenzie Bison Sanctuary
	15663-65			Novakowski		Intrusion of Yellowknife lateral into Mackenzie Bison Sanctuary
107	16301-02	Jan. 12		McT-Cowan	EPB	Lateral, to Old Crow, La Pierre House one to Mile 4
110	16840	Jan. 15		Calef	CARC	Wood bison habitat, Fort Providence herd; Foothills supply lateral through bison range

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C-25	2478	Sept 8	F.S.	Ellwood	Foothills	Pipeline lateral to serve Fort Simpson
	2564			Ivans	Citizen	Feeder lines to northern communities
	2567-69			Black	Citizen	Spur line to Fort Simpson
C-27	2727	Sept. 10		Cummings	Citizen	Fuel bill cut by pipeline
	2759-61			Erion	Citizen	Spur lines into communities -- more economic to subsidize traditional fuels
C-30	2893	Oct. 6	P.P.	Osing	Citizen	Community feeder line
	2895-97			Mirosh	Foothills	Feeder lateral, construction schedule, community distribution
	2899			Carter	CAGPL	Feeder line policy
	2935-38			Mirosh		Feeder line - construction schedule, fuel cost savings
	2939			Carter		CAGPL - feeder line policy
	2945-46			Reed	Citizen	Feeder lines re: supply of housing, industry
	2951-54			Chalmers Carter Mirosh	Citizen	Feeder line economics, fuel supply subsidies
	2959			Bolmer	Citizen	Present housing utilization of fuel oil - cost of conversion to gas
C-33	3171-76	Oct. 9	FS	Stevenson Mirosh	Citizen Foothills	Cost of hookups; Foothills policy re: cost of pipeline to communities, estimate of community use; CAGPL policy - gas supplied only if required, cost of converting from oil to gas
C-34	3270	Oct. 15	YK	Duesterhus	Citizen	Unnecessary money spent; conversion from oil to gas additional expense; suggestion of contract re: reduction in electricity and transportation costs, better compensation
	3302-05			Aylogt Mirosh Workman	Citizen CAGPL	Wants to benefit from pipeline re: use gas in home; use of fuel to provide power; Foothills policy re: industrial, commercial, residential use of gas in north; CAGPL will supply communities, if asked and if economical
	3369	Oct. 16		Pollock	Citizen	Trunk lines into communities regardless of economics
C-39	3711	Feb. 18	IN	Robertson	Citizen	Interest-free basis for distribution of gas in community
	3725-26			Hill	Citizen	Arrangements for gas delivery to communities; utilization of gas
115	17551-52	Jan. 23		Hollingworth	Foothills	Gas pressure in Foothills' community lateral lines
118	17990	Jan. 27		Goudge Sider	MVPI GPC-D-G	Gulf's plans to provide heating in Inuvik
	18097			Motyka	GPC-D-G	Heating gas and liquid products for use in communities
138	20988-89	Apr. 6	YK	Hollingworth Simmons	FOOTHILLS MVPI	Foothills proposal, lateral systems; animal surveys along route
158	24273-76	July 6		Trusty	CAGPL	CAGPL decision not to construct feeder lines to all communities; lines only to towngate
165	25548-52	July 19		Burrell	Foothills	Foothills' policy re provision of gas to northern communities; cost, "Traditional Utility Approach", selection of communities
	25609-15			Reesor Burrell Berger	NWT/AM	Available to commercial and residential users, excess to industrial consumers; cost; communities' option to have gas services or not
166	25763-67	July 20		Burrell		Price control of gas delivered to communities
C-68	7872-79	July 16	FP	Ellwood T. Malewski	Foothills Citizen	Lateral lines, pricing scheme; construction of lines
C-76	8354	Aug. 25	DET	Burrell	Foothills	Dimensions of pipe
173	27034-44	Aug 19	YK	Dalby	NWT/AM	The economics of gas distribution, costs

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174	27054-69	Aug 20	YK	Dalby Berger	NWT/AM	Need for more studies on impact of gas in northern communities; cost of natural gas, distribution system; benefits to community; economic service to communities based on geography, management of distribution
	27070-71			Hollingworth Dalby	Foothills	CAGSL amendment, feasible now to supply gas to Fort McPherson and Aklavik?
	27092-96			Dusel	NWT/AM	How to ensure that small communities get a fair deal on gas supply
	27100-03			Goudge Dalby	MVPI NWT/AM	Definition of economic community, supply gas only to economic communities, if gas does not exceed equivalent cost of oil
	27117-24			Dalby		Conversion of heating load customers to natural gas; savings over fuel oil; cost of converting to gas for customer
	27131-34			Goudge Dalby		Transmission of gas outside NWT unlikely
177	27488-92	Aug 25		Wood	NWT/AM	Compete, may reduce prices, distribution controlled by councils
	27493-96			Wood		Local control of distribution, insure public interest
	27497-99			Wood		Possibility of industry, employment opportunities
	27499-501			Wood		NWT or local control of supply, cost, control of spur lines
	27502-07			Wood Scott	MVPI	Creation of industry; control of distribution, efficiency of municipal and territorial, rejection of federal government as distributor
181	28209-10	Sept 8		McRae	MVPI	Communities should receive gas at at least head price
182	28386-87	Sept 9		Clarke	COPE/ITC	Provision of gas to communities issue must be resolved, NCPG should convert its generators
188	29231-32	Sept 21		Neakok	COPE	Development benefit in Alaska; access to natural gas to heat villages
191	29838-41	Sept 24		Hawryszko	MVPI	Demands on transportation system if feeder lines to communities; reduction of oil cargoes if gas distributed to communities

GAS - COMPOSITION (1)

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XXX	3787	Apr.15	YK	Purcell	CAGPL	Producers
	3789-99			Purcell Gibbs	Foothills	Prudhoe Bay/Richards Island gas streams, content, sweet/sour, rich/lean
XXXI	3906	Apr.16		Gibbs		Water content
45	5950-56	May 24		Horte	CAGPL	Solution gas, gas cap
49	6526-28	June 5		Horte		Gas cap and source gas, shrinkage
61	8635	Sept.15		Lazerte	Foothills	Gas quality specifications, chemical properties; sulphur content; removal of water and liquid hydrocarbon
63	8988	Sept.17		Lazerte		Chilling medium is propane; liquified petroleum gas
	9007-10			Beer	Foothills	Compressor emission; gas turbine exhaust composition
	9148-49			Holtsbaum	Foothills	Water in gas can cause internal corrosion; water content to be minimized
79	11680	Nov.3		Hemstock	CAGPL	Analysis of sulphur content in delta gas
85A	12791	Nov.12		Scott	MVPI	Sulphur concentrations higher in hydrocarbon liquids than natural gas
112	17100	Jan.20	IN	Bliss	GPC-D	Possible sulphur in Delta gas
114	17288	Jan.22		Mainland	GPC-D-I	Taglu gas field
	17333-34			Mainland		Taglu gas field
	17381-83			Mainland		Taglu gas field, possibility of hydrogen sulphide in gas, gas going sour
	17426-27			Faulkner	GPC-D-S	Niglintgak gas field
	17436			Faulkner		Niglintgak gas field field, no hydrogen sulphide in gas

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115	17454-57	Jan.23	IN	Faulkner	GPC-D-S	Niglintgak gas field
	17501-02			Faulkner		Niglintgak gas field, injection of methanol to depress hydrate formation temperature, left in gas
	17541-42			Stamberg	GPC-D-G	Parsons Lake gas field, gas processing operations
116	17613-14	Jan.24		Guyn Good	GPC-D-G GPC-D-G	Possibility of sulphur compounds, production
C-47	4627-28	Mar.13	ARR	W. Simon Beer Berger	Citizen Foothills	Difficult to detect, if leak; chances of asphyxiation

GAS - COST

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XV	1624	Mar.11	YK	Gibbs	Foothills	Service to Northern communities
	1761-72	Mar.12		Dau	CAGPL	Cost to the consumer
45	5921-23	May 24		Horte	CAGPL	Costs of environmental damage; repairs added to cost of gas to consumer
49	6457-6505	June 5		Horte		Capital cost, cost of service, Gibbs suggests Canadian consumers subsidize U.S. transportation costs
50	6688-90	June 6		Horte		Mcf mile method of rate calculation, zone gate method
C-4	201-209	May 28	HR	Horte		Size of demand of the community
	314-316			D.Dean	Citizen	Royalties, taxation
C-5	462-464	May 29		Burrell	Foothills	Cost of gas delivered to town gate, Hay River
	469-470			Wright	Foothills	Charge for gas at well head?
56	7822-35	Aug. 18	YK	Blair	Foothills	Cost recovered over the life of the project from ultimate consumers; transportation costs; comparison to El Paso gas costs; tariffs; liquefaction costs; cost differentials; calculation of costs; feed back into research
	7938-41			Blair	Foothills	Rate policies to equate northern and southern consumer prices
58	8132-37	Aug. 20		Blair		Cost of gas due to Foothills lateral pipelines to the communities; transportation costs; savings for the northern consumer
	8200-03			Blair		Community gas savings re: Foothills lateral pipelines; distribution for other parties; calculation of gas costs
60	8570-80	Aug. 22		Scott Mirosh	MVPI Foothills	Cost of gas in Yellowknife and other communities; community supply laterals
51	6839	Aug. 11	WH	Dau		Cost to the southern consumer; route lengths and eventual gas cost differences
53	7134	Aug. 13		Trusty	CAGPL	Prime route supply cheaper to south
C-21	2087-88	Aug.9	NW	Burrell	Foothills	Cost to Norman Wells from pipeline
	2113-21			Blair	Foothills	Project cost; reserves
	2211-12			W. Fraser	Citizen	Evaluate profits of oil companies
C-22	2262-68			Workman Hushion	CAGPL Foothills	Cost of gas supplied to communities
	2272-80	Aug.11	WH	Y. Jutrunich	Citizen	Benefits of cheap gas to northern mines
C-23	2337-39	Aug.14		R. McCandless	Citizen	Southern markets; recovery of secondary reserves
61	8648	Sept.15	YK	Hensch	Foothills	Safety factor increases cost of service; 42" pipe most economical pipe size
68	10191	Sept.24		Bell Templeton	NWTIB/MA EPB	Costs of delays and fines borne by consumers
73	10920	Oct. 16		Clark	CAGPL	Construction and project costs to affect gas costs; elevated pipeline
85A	12790-91	Nov. 12		Scott Hemstock	MVPI CAGPL	Cost increases make hydro-carbon liquids more desirable as compressor fuel
91	13860-92	Nov. 20		Dau		Factors related to costs
C-30	2937-38	Oct. 6	P.P.	Berger Mirosh	Foothills	Household fuel cost savings
	2939-40			Carter	CAGPL	Feeder line policy - gas costs, total project cost

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C-52	5302-05	May13	CAL	W. Milne	Citizen	Moving by airship, comparison with other methods	
155-A	23844-45	June.30	YK	Jelliss	NWT IB/MA	Price of Pointed Mountain gas; Westcoast Transmission selling undervalved gas to US	
	23884-90			Jelliss		Selling prices, Pointed Mountain gas, Amoco	
	23894-95			Jelliss		Increase selling price of gas, Westcoast, US Petroleum Company, Amoco, would shift rent distribution	
C-62	6927	May 31	MTL	Perras	Citizen	Price limit over which gas would become prohibitive for Sidbec - Dosco	
C-63	6999	June 1		Barbeau	Citizen	Industry will choose gas as an energy source if prices remain competitive with other sources	
C-64	7250-52	June 3	OTT	Birnie	Citizen	IGUA concerned that gas would be sold cheaper in U.S. than to eastern Canada	
166	25763-67	July 20	YK	Burrell	Foothills	Price control of gas delivered to communities	
C-68	7873-83	July 16	FP	Ellwood	Foothills	Lateral lines to communities, price for local consumers	
173	27030-47	Aug 19	YK	Dalby	NWT/AM	Equivalent cost of gas exceeding fuel oil in some places, comparative costs of gas, southern and northern Canada	
174	27056-65	Aug 20		Dalby Berger		Study of field cost; impact on economics of community service, on consumer; relationship with world inflation rate	
	27100-03			Goudge Dalby	MVPI	Definition of economic community, "Community pricing system"; gas supplied to communities where oil is not cheaper	
	27126-29			Dalby		As gas increases to market value, oil becomes more favourable; four parts of community pricing system	
177	27486-88	Aug 25		Wood	NWT/AM	No subsidy for north	
	27500-01			Wood		Who pays difference between consumer and actual cost in north, who pays for spur lines	
178	27647-47A	Aug 26		Merrett	MVPI	Price of construction stretch out to developer and consumer	

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1660-61	Mar.11	YK	Dau	CAGPL	Volume, need for measuring stations
1731-34			Dau		Pressure, relocation of compressor stations
1776-77	Mar.12		Dau		Volume, economic feasibility
1804-07			Dau		Volume, FUT compressor stations
2196 2200-03	Mar.17		Williams	CAGPL	Sans Sault test site; chilling of gas
2781-84	Apr.7		Williams		Volume increases through looping
3151 3193-94	Apr.9		Slusarchuk Slusarchuk	CAGPL	Replacement of frost susceptible soil, alternating flow in dual pipes Varying temperature effect at bulb
3578-80 3586-88	Apr.14		McRoberts Clark	CAGPL CAGPL	Compressive force cause of movement of pipe Test pressure in excess of gas pressure
3646 3650			Purcell	CAGPL	Projected gas volumes Design volume per year
3666-66A			Purcell		Gas temperature behaviour in large diameter pipe
3722	Apr.15		Price	CAGPL	Testing - 950 lbs.
3769-88			Purcell Gibbs	Foothills	Given volume of gas, composition
3803-05			Gibbs		Pressure 1,680 lbs/sq.in. gauge
3863-66			Purcell		Pressure, 42" alternative
3869-70			Purcell		Conventional operating pressure

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XXXI	3875-79	Apr. 7	YK	Gibbs	Foothills	Volume, Richards Island to Travaillant Lake
	3911			Purcell	CAGPL	Volume, lowest cost of service
	3930			Purcell		Pressure, 80 per cent minimum specified yield strength
XXXII	4021-29	Apr. 18		Purcell		Maximum volume before looping
	4031-37			Purcell		Optimum volume and gas temperature affect compressor station spacing
	4052-56			Purcell		Source/cap/solution gas
	4063-64			Purcell		Pressure restrained during rupture by permafrost
	4088-92			Purcell		Effect of pressure of gas on crack, arrestor bands
	4162			Purcell		Optimum volume for different pipe sizes
XXXIII	4246	Apr. 21		Dau	CAGPL	Compressor stations increase gas volume
XXXV	4578-79	Apr. 23		Dau		Pressure on Aleyeska line
40	5206	May 16		Hurd	CAGPL	Compressor stations, control temperature gas temperature
	5224-27	5224-27		Fielder	CAGPL	High pressure natural gas piping
41	5279-82	May 20		Fielder		U.S.S.R. pipelines, pressure, temperature
42	5432-37	May 21		Hurd		Purging pipeline sections, noise levels
	5544-45			Horte	CAGPL	Gas volumes, pipeline size
	5556-64			Horte		Capacity, 4 1/2 billion cubic foot/day
43	5655-58	May 22		Horte		Initial volumes per day
	5663-66			Horte		Looping, volumes
	5676			Gibbs	Foothills	Daily deliverability figures
45	5909-5925	May 24		Bayly	COPE/ITC	Chilling, effect on volume, temperature
49	6460-6504	June 5		Horte		Mcf mile method
	6525-34			Horte		Maximum throughput, gas as fuel
50	6670-74	June 6		Horte		Maximum capacity, looping
	6700			Horte		Compressor stations maintain pressure, possibility of looping
C-5	473-474	May 29	Hay River	Williams	CAGPL	Volume from Prudhoe Bay and Mackenzie Delta
C-16	1498-1500	July 13	O.C.	Rowe	CAGPL	Gas emissions in case of pipeline break
56	7828-35	Aug. 18	YK	Horte		Amount of energy lost in transportation
	7930-33			Blair	Foothills	Future available spare capacity in the AGTL system
57	8064-77	Aug. 19		Blair		Flow overtime of gas reserves in Foothills' pipes; 42 inch alternative
58	8116-27	Aug. 20		Blair		Flow of gas expected from Prudhoe Bay Supply; Richard's Island's supply; Travaillant Lake delivery; necessity of AGTL looping to take gas flow; future spare capacity
	8271-73			Blair		Foothills 42 inch pipe; CAGPL 48 inch pipe; Alaska gas reserves
	8279-81			Blair		Foothills eventual gas flow
59	8399-8401	Aug. 21		Mirosh	Foothills	Pipeline chilling; temperature at compressor station #14
51	6785-87	Aug. 11	WH	Hemstock	CAGPL	Maximum mainline system throughput
	6799-6800			Hemstock		Cost of pipeline associated to desired flow and capacity of the system
	6829-41			Dau	CAGPL	Available reserves to warrant pipe size;
				Gibbs	Foothills	Construction completion dates and total carrying capacity dates; carrying volumes; alternative corridors; mileage of pipe for each route and alternative corridor
	6850-71			Dau		Gas flow per route and alternative corridors; construction costs, tariffs, mileage differences, pipe size
53	7103-04	Aug. 13		Dau		Implications in spacing compressor stations
54	7501-05	Aug. 14		Weedon	CARC	Chilled pipe, off-shore corridor; varying temperatures in water and soil mediums; permafrost degradation on shore line; ice pressure
61	8626-51	Sept. 15	YK	Gibbs	Foothills	Less pressure in 42" pipe; difference in Foothills' and CAGPL's temperature, flow, volume, costs, efficiency; volume build up; pipeline start up; scheduling; average gas flow; temperature before and after entering compressor station

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61	8651-91	Sept. 15	YK	Marshall Panel 4	CAGPL	South of Fort Simpson area of discontinuous permafrost, pipeline temperature to be above 32 degrees; line suction; operate heater looping to increase flow and volume; discharge temperatures; excess capacity; Parsons Lake volumes; operating pressure; increased pressure versus looping and adding compression; chilling systems; speed of gas flow; opposite effect of Joule-Thompson heat exchanges
	8691-93			Bayly Panel 4	COPE/ITC	Cost of service flow during first year; cost when build-up flow is reached
	8693-99			Scott Panel 4	MVPI	Chilled pipe south of Fort Simpson; chilling of community supply laterals, small size pipe; environmental impact of non-chilled community supply laterals
61A	8701-29	Sept. 15		Panel 5	Foothills	Reduced operating pressure; stresses within the pipeline
	8729-55			Glockner	Foothills	Evaluation of stresses and strains, internal pressure; longitudinal stresses; bending stresses; settlement stresses; buoyancy; horizontal and vertical pipe movement, elastic deflection, stresses at the soil/pipe interface; frost heave pressure; overburden pressure
62	8786h-88	Sept. 16		Glockner		Test design; strain gauges; pressure; gas pressure and temperature differentials; yield moment; pressure changes
	8814-16			Mirosh		Spacing of compressor stations; flexibility in calculated horsepower units, temperature as related to compressor spacing; final design
	8856			Mirosh	Foothills	Block valves; safety features; CAGPL's use of block valves given larger pipe size
63	8971-9114	Sept. 17		Panel 7 Gibbs	Foothills Foothills	Temperature of gas at river crossing south side of the Mackenzie River at Fort Simpson; block valves, horsepower output; compressor stations re operation facilities, maintenance, environmental controls
	9026-32			Lazerte	Foothills	Anchors on compressors and chillers; force exerted on pipe; stress analysis
	9114-9206			Panel 8	Foothills	Metallurgy panel-direct evidence re specifications and supply of pipe to fit volumes and pressures prescribed. Differences between Arctic Gas and Foothills proposals
64	9218	Sept. 18		Hushion	Foothills	Effect of hydrostatic testing on stress level of pipe
	9252-65			Hushion		Operation at 69% of test decision to loop or add pressure; operation at 80% if market suitable
	9437-38			Claridge	Foothills	Last point of chilling, ice thaw and pressure development
65	9521-40	Sept. 19		Hwang	Foothills	Difference between CAGPL and Foothills southern point of chilling; prediction of heave distribution of permafrost
	9586-88			Claridge Davison	Foothills	Design and problems foreseen for unskilled community laterals
68	10041	Sept. 24		Hushion	Foothills	Use of spare system capacity and incrementing facilities to accommodate projected volume throughputs
	10045-46			Hushion		Gradual volume of build up schedules of Foothills compared to CAGPL
	10058-61			Hushion		Chilling station installation; concept of chilled line
	10083-84			Scott	MVPI	Description of specifications of Westcoast pipeline in B.C.
70	10508	Sept. 26		Owen	MVPI	Pointed Mountain line, temperature of a hot gas line
	10518			Owen		Westcoast hot gas pipeline
75	11087-90	Oct. 20		Weedon	CARC	Gas temperature, impact on active layer, ultimate operating temperature; frost bulb formation; depth of the active layer
90	13642-43	Nov. 19		Hemstock	CAGPL	Gas pipeline is cold

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91	13869-95 13893-98	Nov. 20	YK	Dau	CAGPL	Flows, years, sections Flow from Prudhoe Bay, Delta
98	14881	Dec. 8		Scott		Using old DEW line sites for compressor stations, pressures
C-25	2549	Sept. 8	F.S.	Ellwood	Foothills	Gas leakage detection re: pressure monitoring
112	17023-25	Jan.20	IN	Horsfield	GPC-D	Well-head pressure; "slug-flow"; flow- rate testing; production rate
114	17280 17326 17424	Jan.22		Mainland Mainland Faulkner	GPC-D-I GPC-D-S	Taglu gas field, well production estimation Taglu field, problems in conveying gas long distances to plant Niglintgak gas field gathering lines
115	17498-500 17536 17543 17551-53	Jan.23		Faulkner Stamberg Stamberg Stamberg Hollingworth	GPC-D-G GPC-D-G Foothills	Niglintgak gas field, pressure in gathering lines; safety pressure devices Parsons Lake gas field, production flow rates Parsons Lake gas plant, pressure, temperature of delivery gas Foothills' community lateral lines, pressure; gas production flow design, Parsons Lake gas field
130	19752 19804-14	Mar.16	YK	Purcell Gibbs Williams	CAGPL CAGPL	Determining pipe size of dual crossings to give same capacity as single 48 inch line, flows involved Pressure in two 36-inch pipes and one 48 inch used in crossings, insurance plan
131	19884-85 19977	Mar.17		Purcell Purcell	CAGPL	Use of twin 36-inch lines at Milepost 336 Effect on flow of moving compressor station CD-08, alternative plans to remove flow restriction
132	20038-39 20074-75 20112-26 20147	Mar.18		Purcell Clark Purcell Purcell	CAGPL	Even if no permafrost, pipeline would still be chilled so as to transmit large volumes Alternating flow in twin crossing pipes to restrict growth of frost bulbs, Delta channel crossings Effects on flow of moving compressor station CD-08 Supply pressure at compressor station MD-01

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XXVIII	2042-45	Mar. 14		Dau	CAGPL	Potential future sources, factor in route selection
XXIV	2780-84	Apr. 7		Williams	CAGPL	Decision to loop based on supply and demand
XXIX	3650	Apr. 14	YK	Purcell	CAGPL	Design
XXX	3770-88	Apr. 15		Purcell		Points, Prudhoe Bay
XXXI	3878-81	Apr. 16		Gibbs	FOOTHILLS	Travaillant Lake delivery line, 49 parallel
XXXII	4024-29	Apr. 18		Purcell	CAGPL	Increased gas volume depends on supply and demand
XXXIII	4234-36	Apr. 21		Dau	CAGPL	Schedule - gas from Delta and Prudhoe Bay
40	5200-02	May 16		Fielder	CAGPL	Transportation to western U.S.S.R.
41	5280	May 20		Fielder		U.S.S.R. gas reserves
42	5411-13 5494 5545-54 5557-64 5574	May 21		Fielder Hurd Horte Horte Berger	CAGPL CAGPL	U.S.S.R. gas reserves, fields Length of pipeline operation, potential reserves Volumes available, Mackenzie Delta and Prudhoe Bay Looping, supply available Prudhoe Bay reserves
43	5587 5648-58 5661-72 5676	May 22		Horte Horte Horte Berger		Dealt with by consultants to Arctic Gas U.S. midwest and eastern markets Looping, volumes, additional horsepower Questions of supply and demand

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44	5667-83	May 23	YK	Horte	CAGPL	No specific plans for lines to communities
	5790-97			Bell Horte	NWT IB/MA	Hydrocarbon developments
	5821-24			Bell		Gas discoveries
	5829-33			Bayly	COPE/ITC	Availability of Mackenzie Delta gas
45	5905-09	May 24		Bayly		Consultations with communities, gas service
	5915-19			Bayly		Capacity of 42 inch pipe vs 48 inch pipe
	5955-56			Horte		Prudhoe Bay reservoir
49	6456-6504	June 5	YK	Horte	CAGPL	Mcf measurement
	6525-34			Horte		Commitments to quantities, possibility of looping
	6585-88			Horte		Pipeline specifications - factors involved
50	6671-79	June 6		Horte		Potential to load line and loop, reserves backup financing
C-5	471-474	May 29	Hay River	Lantz	Citizen	Transportation of gas to Canadian and American markets
C-11	1048	July 8	F. McP.	Elwood	Foothills	Transportation of natural gas
56	7810-12	Aug. 18	YK	Horte		Northern Slope exploration is in initial stages
	7922-24			Blair	Foothills	Availability of reserves influences pipe size
	7942			Blair		Supply laterals; Foothills responsibility as a transmission company
57	7960	Aug. 19		Blair		Use by Foothills of AGTL and CNR as transmission companies; principally for Canadian markets; pipe size
	8053-55			Blair		Reserves necessary to make Foothills feasible; reserves proven and probable
58	8159-63	Aug. 20		Blair		Looping not needed initially; Alaskan gas transmission could require looping; potential gas supplies
	8187-90			Blair		Mackenzie Basin potential for gas discovery; Foothills reason for remaining in the Valley area; ranking of reserve areas
	8228-30			Berger Blair		Economic development following a pipeline route re: Alberta experience; location of petro-chemical plants and gas supply
	8293-96			Blair		Foothills joint venture with AGTL and Soquip; stronger position for obtaining future gas supplies; funds for drilling and exploration, distribution, participation
59	8297	Aug. 21		Blair		Foothills - Soquip; search for reserves in Quebec
	8305			Blair		Canadian need for gas; future reserves
60	8482-84	Aug. 22		Berger		Consideration of location, extent of gas field in Mackenzie Valley
51	6782-85	Aug. 11	WH	Hemstock	CAGPL	Gas reserves; routing of pipelines; Eagle Plain Basin; Mackenzie Delta-Beaufort Basin; potential gas supply, future development
	6820-23			Berger Hemstock		Potential hydro carbon areas; Peel Plain, Arctic Slope province; naval petroleum reserve, looping
	6829-41			Dau Gibbs	CAGPL Foothills	Reserves, pipe size and capacity, pipe mileage build-up time to capacity; looping required, daily throughout, costs to consumer
52	6925	Aug. 12		Berger		Information on U.S. Naval Petroleum Reserve #4
	6958-59			Dau		Connecting facilities between prime route and Fairbanks corridor
	6975-87			Dau O'Rourke	CAGPL	Cost comparison of alternate routes
	7022-48			Dau		Route selection considerations
53	7090-7100	Aug. 13		Williams Hemstock	CAGPL	Potential development of Beaufort Sea, Yukon Coastal plain
	7146-53			Hemstock		Reserves at Eagle Plain Basin, Mackenzie Delta Beaufort Basin and Banks Island
	7252-58			Wah-Shee	NWT IB/MA	Need for delta gas
	7270-72			Thompson	CARC	Petroleum leases in proposed Arctic Wildlife Range

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54	7467-69	Aug.14		Weedon	CARC	Potential reserves in the Beaufort Sea; Marsh Creek anticline; speculative reserves in Alaska
C-21	2109-21	Aug.9	NW	Blair	Foothills	Reserve estimates, Mackenzie Delta
C-22	2230-33	Aug.11	WH	C. Pearson	NWT/CC	Reasonable prices for local industry
	2261-70			Workman	CAGPL	Routing, gas to communities
				Hushion	Foothills	
	2271-80			V. Jutronich	Citizen	Prime route selection; benefits to North
C-23	2308	Aug.14		R. McKaymie	Citizen	Pollution devices; use of energy
	2335-41			R. McCandless	Citizen	Development of Yukon gas and oil
	2351-52			C. Taylor	Citizen	Yukon Conservation Society urges reduction of exports
61	8627-51	Sept.15	YK	Panel 4	Foothills	Reserves, study in Mackenzie, Beaufort Basin; pipeline start-up; volume, capability; average day flows in winter and summer
	8691-93			Bayly	COPE/ITC	Cost of service
				Mirosh	Foothills	
				Lazerte	Foothills	
61A	8756	Sept.15		Mirosh		Gas supply in event of pipeline breakage; single pipe vs dual pipe used at river crossings
				Marshall	CAGPL	
62	8794-808	Sept.16		Mirosh		Supply at Prudhoe Bay; carry of Alaskan gas; application to NEB; alternative routes; studies; looping
63	8974	Sept.17		Mirosh		Supply during first year of operation
64	9254-57	Sept.18		Hushion	Foothills	Operation of line at 80% if supply and demand warrant
	9347-49			Mirosh		Future delivery of gas from Banks and Victoria Islands through Foothills system; mode of delivery
66	9778-84	Sept.22		Mirosh		Energy required by construction, operation, compared to total energy output
75	11062-63	Oct. 20		Weedon	CARC	Gathering facilities required for the Marsh Creek Anticline and Eastern Beaufort Sea oil and gas deposits; Prudhoe Bay facilities
76	11261	Oct. 21		Weedon		Potential area for discovery is north of the Brooks Range area
78	11585	Oct.23		Roed	CARC	Location of potential gas bearing body
86	13058	Nov. 13		Berger		Petroleum industry predictions of gas supplies unreliable
88	13276-77	Nov. 17		Berger		Government will decide Canada's gas and pipeline requirements
88-A	13395-97	Nov. 17		Berger		Impact of looping
91	13851-92	Nov. 20		Dau	CAGPL	Pipeline length, diameter, gas costs, volumes
	13896-98			Dau		Reserves, Prudhoe Bay; looping to take gas into line carrying Prudhoe Bay gas only
95	14452	Dec. 3		Banfield	CAGPL	Routing and carrying of Alaskan gas
98	14963-64	Dec. 8		Berger		Shut down North slope, due to caribou presence, delaying pipeline; pipeline looping
C-25	2513-15	Sept. 8	F.S.	Black	Citizen	Delta gas reserves, potential for second pipeline
	2525-27			Workman	CAGPL	Nature of gas moved to U.S.
	2542-44			A.Lamothe	Citizen	Gas supply to northern communities
				Workman		
	2604-09			A.Lamothe		Amount of crude oil used for motor gasoline
C-26	2660	Sept. 9		Nahanni	Citizen	No need for gas, no proof re: sufficient reserve of gas
C-27	2746	Sept. 10		Erion	Citizen	Alaskan gas if insufficient gas in delta
C-29	2871	Sept. 12	JMR	Kazon	Citizen	U.S. demand for oil, gas
C-30	2955-57	Oct. 6	P.P.	Bolmer	Citizen	Diminishing domestic energy supplies, delivery costs; highway, railway extension along corridor
	2964-67			Mirosh	Foothills	Gas reserves Mackenzie - Beaufort Sea area, railroad gas transport
				Carter	CAGPL	
				Berger		
				Santos	Citizen	
C-31	3000-01	Oct. 7	F.R.	Mirosh		Feeder line service to Great Slave Lake communities
C-33	3109	Oct. 9	FS	Mirosh	Foothills	Canadian gas from Canadian Arctic; energy shortage
	3224-27			Mirosh		Studies re: total oil, gas, energy in Canada; rate of consumption of natural gas; gas reserves in Mackenzie - Beaufort area
				Brunt	Citizen	

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C-34	3289-94	Oct. 15	YK	Workman Mirosh	CAGPL	Threshold limits of gas supply; justification for pipeline, American gas from Alaska; exploration in Mackenzie-Beaufort area; early reserves in Alberta and British Columbia; Foothills willingness to carry Prudhoe Bay gas, if asked
	3296-97			Berger		Gas reserves in high Arctic, engineering problems of transportation, gas from Banks Island and Victoria Island, along Hudson's Bay coast
	3353-54	Oct. 16		Castille	Citizen	Prudhoe Bay firm El Paso draining resources
C-35	3388-89	Oct. 22	LI	Carter	CAGPL	CAGPL policy re: distruction of Canadian, American gas
	3391-92			Berger		Foothills policy re: feeder laterals
	3395-98			Irwin Berger	Citizen	Feeder lateral gas supply - northern cost benefits, lateral routes and communities served
C-36	3501	Jan. 29	In.	Burrell	Foothills	Community delivery
	3546			Workman		Revenue from gas delivery to United States
112	17015-34	Jan.20	IN	Horsfield	GPC-D	Geology of gas fields; seismic work; drilling; production; delivery; history of industry, Mackenzie Valley; future prospects, reserves
	17110-16			Bliss	GPC-D	Drilling sites in Kendall Island Bird Sanctuary; dangers from toxic chemicals in drilling process, impact on vegetation
	17116-21			Bliss		Impact of Delta gas field activities on reindeer; impact on goose feeding vegetation; development near Kendall Island Bird Sanctuary.
113	17169-72	Jan.21		Hobart	GPC-D	Number of natives employed in exploration work, Delta communities
	17185-86			Hobart		Economic effects of no further oil/gas development in Delta
	17216-25			Hobart		Native income generated in Delta areas; work readily available; Gulf in Coppermine
	17245	Jan.21		Hobart	GPC-D	Effectiveness in exploration work Coppermine, southern and Delta workers
114	17280-83	Jan.22		Mainland	GPC-D-I	Taglu field , reserves, production rates, drilling
	17320-21			Stewart	GPC-D-I	Taglu field, constant production rate techniques, infill drilling
	17346-58			Bayly Mainland	COPE/ITC	Borrow material from Campbell Lake for artificial offshore island in . . . Beaufort Sea; future potential les offshore; dredging sea floor for island material
	17422-26			Faulkner	GPC-D-S	Niglintgak gas field, reserves, production rate
	17436			Faulkner		Niglintgak gas field, production rate
115	17468-77	Jan.23		Faulkner		Niglintgak gas field, difficulty of gathering line crossing Kumak channel; defining field size; comparatively small field
	17461-85			Stewart	GPC-D-I	Estimated gas reserves in Delta area
	17521-29			Faulkner		Niglintgak gas field, feasibility of drilling, further work intended; Shell will not build lateral to gas plant up to carriers; reasons
	17535-37			Stamberg	GPC-D-G	Parsons Lake gas field, on stream by mid 1981; reserves, production rate, life of field

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115	17559-62	Jan.23	IN	Good Stamberg	GPC-D-G	Parsons Lake gas field, could lengthen productive life by feeding in gas from other fields; exploiting new finds outside present field; number of production wells
	17589-90			Scott	GPC-D-G	Parsons Lake drilling program not complete, reserve estimates not final
	17595-602			Bayly Berger Marshall	COPE/ITC CAGPL	Relevance of COPE/ITC witness Shaw's evidence "Handling of hazardous materials in oil and gas field development in Alberta" with regard to later gas development in North
116	17614	Jan.24		Bayly Good Guyn	GPC-D-G GPC-D-G	Marketable reservoirs of sulphur bearing hydrocarbons for production
	17646			Rempel	GPC-D-I	Plans and design concepts for development of Mackenzie Delta gas reserves
	17659			Webb	GPC-D	Effects of off-shore construction on whale distribution and behaviour, harvest rates of whales by natives
	17744			Motyka	Citizen	Relationship between gas reserves and water depth in Parsons Lake
117	17771	Jan.26		Appleton	GPC-D-G	Drilling disturbance to reindeer overwintering
	17789			Wopnford	GPC-D-S	Rigs moved by helicopter within Kendall Island Bird Sanctuary
118	17942	Jan.27		Wopnford		Gas drilling in critical areas, tradeoffs
	18014			Berger		Exploratory drilling in Delta and Beaufort Sea
119	18106-27	Jan.28		Shearer	COPE	Mackenzie Delta drilling record, proposed gas plants at Parsons Lake, Taglu and Niglintgak, offshore discoveries, possible permanent facilities, gas plant at King Point, gas at Prudhoe Bay
131	19996-98	Mar.17	YK	Williams	CAGPL	Ice scour problems, supply lines from off-shore wells
135	20401-25	Mar.25		Scott Marshall Hollingworth Bayly Bell	MVPI CAGPL Foothills COPE/ITC NWT IB/MA	Admissibility of COPE/ITC evidence on petroleum development, western Arctic
142	21532	Apr.13		Virtue	NORTRAN	Exploration, discovery in the NWT
C-40	3868	Feb.23	AK	Greenland	Citizen	Shell drilling without native approval on western side of Richardson Mountains
C-49	4784-87	May10	VAN	Scoten	Citizen	Arctic reserves to be developed to offset shortages predicted by NEB
	4811-16			Rankin	Citizen	Oil and gas reserves
C-50	4908-10	May11		Litterdale	Foothills	Gas reserves, Mackenzie Delta
	4924			St. Dennis	Citizen	Conflicting reports on gas reserves
	4999-5000			Antonides	Citizen	Gas supply secure for a minimum of 34 years, NEB estimation
C-51	5199-5200	May12	VAN	L. Berry	Citizen	Reserves, need for more precise estimates
C-52	5233-37	May13	CAL	J. Poyen	Citizen	Need for pipeline to encourage exploration, development
	5241-43			J. Poyen		Able to develop reserves to maintain supply
	5255-56			E. Reid	Citizen	Changes in figures, gas reserves
	5333-35			H. Buckmaster	Citizen	Government policy, encouragement of exploration, south of 60°
C-53	5445-53	May14	CAL	Pearce	Citizen	Question as to whether Arctic reserves will reach the south in time, before real shortages begin

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C-53	5458-59	May14	CAL	Donovan	Citizen	Should not rush into building the pipeline, may preclude pipeline to polar gas regions
	5467			Jonasson	Citizen	Reliance on estimations of gas reserves
	5500			Tyler	Citizen	Should reduce exports, increase Canadian deliveries
	5517-31			Nickle	Citizen	Gas should be brought down from the north as soon as possible
	5567-69			Blair	Foothills	Scheduling of first possible gas flow to the south
C-54	5601-02			Berlie	Citizen	Even with accelerated development, facing energy shortages by mid 1980's
	5672-73			Murray	Citizen	NEB predicting need for new gas supplies by 1980's
	5682-83	May17	EDM	Schommar	Citizen	Discrepancy in NEB figures of estimated gas reserves; selling to U.S. for mere profit, need to conserve our energy resources
	5685-87			Somervilk	Citizen	Northern gas can contribute to welfare of Canada by being available in other areas
	5689-98			Leeson	Citizen	Estimated gas in Mackenzie Valley Delta, 3.9 trillion cubic feet
	5703-09			Bannister	Citizen	Inland Comments consumption of gas, 6.1 billion cubic feet annually
C-55	5753-62	May18		J. Paschen	Citizen	Reserves, Mackenzie Delta; Canadian requirements; Delta drilling activity
	5807			B. Mardiros	Citizen	Proven reserves
	5874			L. Mulhall	Citizen	Sale of first gas discoveries, arrangements between pipelines and Imperial Oil
	5879-80			R. Steele	Citizen	Need for greater energy security; possible national energy shortfalls
	5922-24			J. Harvey	Citizen	Time factor, energy development; comment on statement by Blair, Foothills
	5952-53			A. Meyer	Citizen	Southern Canada in need of gas
	5994-99			L. Bujold	Citizen	Changes in estimates of reserves
C-56	6041-42	May19	REG	P. Black	Citizen	Future exports; need to meet Canada's requirements
	6050-53			R. Allan	Citizen	Rapid depletion, energy sources; proposed reduction, exports
	6061-66			J. Pilling	Citizen	Need for frontier gas supplies yet to be established; exports to United States
	6085-86			P. Prebble	Citizen	Estimated reserves; exports to United States
	6127-33			J. Roberts	Citizen	Multinationals, government; exports to United States
C-57	6158-60	May20	WIN	W. Norrie	Citizen	Greater Winnipeg Gas Company, natural gas shortages
	6180			J. Willis	Citizen	Impact of shortage of natural gas
	6195			R. Roteliuk	Citizen	Natural gas, energy in food production
	6214-17			J. Ryan	Citizen	Canadian Petroleum Association, natural gas supply
	6224-27			P. Young	Citizen	Sporadic availability of natural gas service
	6244-46			A. Rathke	Citizen	Greater Winnipeg Gas Company realizes gas shortage, need for pipeline
	6293-94			R. Johnstone	Citizen	Polar Gas Company exploring in Arctic Island north of Hudsons Bay, natives not aware of proposal
C-58	6328	May25	TOR	D. Duncan	Citizen	Problem of maintaining existing delivery levels, gas is needed
	6341-43			F. Fairchild	Citizen	Untapped, hidden reserves; development of Mackenzie Valley Pipeline is premature
155-A	23837	June 30	YK	Jelliss	NWT IB/MA	US consumers of Pointed Mountain gas
C-59	6403-06	May 26	TOR	W. Dalton	Citizen	Numbers, Canadian users; increases in consumption, need for Delta reserves
	6426-29			G. Caughey	Citizen	Delivery area, numbers of consumers; Union Gas territory

GAS - SUPPLY AND DELIVERY (continued)

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C-59	6437	May 26	TOR	S. Acheson	Citizen	Continental energy policy, strain on Canadian reserves
	6468-70			F. Jones	Citizen	Needed in production of sponge iron, for other industries
	6549-54			R. Lougheed	Citizen	Consumers Gas Company - area serviced, number of consumers; Delta 5, drilling in the Mackenzie Delta
	6560-65			G. Vandezande	Citizen	Projected supply to last 34 years; non-frontier gas reserves; exports to U.S.; Alberta 30-year supply
C-60	6622-24	May 27		E. Burton	Citizen	Short-fall 1980's, Canadian supplies, if delay of pipeline
	6633-34			R. Snyder	Citizen	Northern and Central Gas Corporation, service area, availability of gas; need for additional supplies
	6670-72			E. Welsh	Citizen	Supply situation, existing southern reserves, new discoveries, exports to U.S.
C-61	6830-32	May 28	TOR	H. Button	Citizen	Possibility of supply difficulties, Ontario, two to three years
	6860-62			Pimlott	CARC	Over emphasis on short term gas situation
C-62	6923-29	May 31	MTL	Perras	Citizen	Gas usage by Sidbec-Dosco, Quebec
	6958-59			Genest	CAGPL	Gas supplies important for Quebec
C-63	6985-87	June 1		Schiblie	Citizen	Inconsistency re prediction of gas reserves, NEB
	6990-97			Barbeau	Citizen	Gas Metropolitan, distribution of gas in Quebec
	7028-36			Ford	Citizen	Uncertainty over oil and gas reserves
	7091			Hughes	Citizen	Gas reserves must be used as only alternative at present to prevent economic hardships
C-64	7203-	June 3	OTT	Amagoalik	COPE/ITC	Inconsistency in predictions of gas reserves
	7227-29			Hatton	Citizen	Discrepancy between 1971-1974 statements re gas reserves; gas exports to U.S.; Alberta gas to eastern Canada
	7238-39			Proulx	Citizen	Fluctuations in estimates of oil and gas reserves
	7248-51			Birnie	Citizen	Concerns of IGUA re gas supplies to Eastern Canada
	7352-59			Wilder Rutherford	CAGPL Foothills	Gas supplies from north will reduce demand on Alberta
C-65	7400-01	June 4		L. Newell	Citizen	Evaluating gas supplies from Mackenzie Valley and alternative energy sources
	7435			A. Fisher	Citizen	Gas demands outstripping supplies, Stelco supporting pipeline
161	24778-80	July 12	YK	Trusty	CAGPL	Indirect employment generated by pipeline at gasfields, plants, transportation sector
165	25612-20	July 19		Berger Reesor Burrell	Foothills Foothills	Same savings for industrial users as residential and commercial users; criteria for deciding which communities should have lateral lines; cost to Jean Marie River, Tuktoyaktuk
166	25707	July 20		Burrell		Study by Foothills re supply requirements for natural gas
C-75	8339-41	Aug. 21	CL	J. T'Seleie Blair	Citizen Foothills	Exploration, find in Tedji Lake, hasn't been applied for yet
174	27129-31	Aug. 20	YK	Dalby	NWT/AM	Municipal and investor ownership
	27139-44			Blair	Foothills	Canada's dependency on natural gas, found in Mackenzie Delta; pressures for installation of pipeline
	27168-72			Steeves Blair	CAGPL	Involvement of Canada's gas supply with foreign regulatory proceedings
	27202-09			Blair		Differences between proposals of Foothills and Arctic Gas
177	27485-90	Aug. 25		Wood	NWT/AM	Community or territory control reduce costs
181	28127-28	Sept. 8		Reimer	MVPI	No guarantee of continuing activity
188	29195-98	Sept. 21		Neakok	COPE	Development of Barrow gas field; granting of approval to collect gas; benefits of gas development on Tyonek

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XXIX	3647	Apr.14	YK	Purcell	CAGPL	Compression and gas chilling equipment used	
	3666-66A			Purcell		Gas chilling not required for 36" and smaller pipe	
XXX	3769	Apr.15		Purcell		Minimum unit transportation costs, supply and delivery points	
	3863-64			Purcell		48" and 42" pipe alternatives, costs	
XXXII	4032-37	Apr.18		Purcell		Fuel gas for transportation affects optimum volume	
XXXIV	4404-05	Apr.22		Dau	CAGPL	Prudhoe Bay lateral; Mackenzie Delta	
43	5579-80	May 22		Horte	CAGPL	Selection of route, Mackenzie Valley	
	5621-36			Horte		Transportation costs, MCF, mile method	
49	6475-504	June 5		Horte		Pipeline project cost, rate setting method	
	6525-34			Horte		Contract carrier	
C-4	314-16	May 28	HR	Carter	CAGPL	Royalties, taxation mostly on producing companies, not transporting companies	
C-5	464-65	May 29		Burrell	Foothills	Foothills only transporting company, not producer	
56	7810-12	Aug.18		Horte		Service of north slope reserves; looping	
58	8235-36	Aug.20		Blair	Foothills	Movement of Alaskan gas; capital intensive; Foothills reservations; Foothills could transport partial Alaskan gas supplies	
	8270-74			Blair		Ownership of West Coat; policy not to carry Alaskan gas; AGTL, West Coat possible transmission of Alaskan gas; piggy-back gas carriers	
59	8396	Aug.21		Gibbs Marshall	Foothills CAGPL	Foothills and Alaskan gas	
54	7576-77	Aug.14	WH	Parker	CARC	Fuel consumption in the gas transportation system, Arctic Gas non liquefaction, re-gasification results in an advantage	
--	61	8626-98	Sept.15	YK	Gibbs Panel 4	Foothills Foothills	Foothills and CAGPL differences; chilling temperature, pressure, volume, pipe size; pipeline start-up; scheduling
C-27	2753-58	Sept. 10	FS	Rutherford	Foothills	A.G.T.L. Canada system, West coast TransCanada System re: expansion	
118	18034-35	Jan.27	IN	Horsfield	GPC-D-I	Transportation of raw production fluids, problems; shipping to plant or transporting by flowlines	
C-52	5299-06	May13	CAL	W. Milne	Citizen	Moving by airship; research by Shell	
165	25554-60	July 19	YK	Burrell	Foothills	Transmission lateral system	
C-71	8019	Aug. 10	RE	E. Lafferty	Citizen	Suggestion of railway to transport gas	

GAS AND OIL WELLS

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C-36	3513-19	Jan. 29	IN	Mainland	GPC-D	Well drilling patterns at Taglu, Niglintgak, Parsons Lake, air transport facilities, manpower requirements - construction, operation phases; new seismic techniques; Beaufort Sea environmental program re: offshore blowouts; island building-impact on whales; native employment at wells, expansion of training programs; worker working hours; community benefits from development
C-38	3637	Feb.12		Plum	Citizen	Oil field production at Leduc, Alberta
C-39	3726	Feb.18		Hill	Citizen	Offshore drilling in Beaufort Sea encouraged
	3743			Raynier	Citizen	Sufficient gas and oil reserves to pay for pipeline; Beaufort Sea
114	17281-86	Jan.22		Mainland		Taglu field, drilling techniques
	17312-27			Mainland		Taglu gas field, cluster drilling; infill drilling; less impact to have wells, plant at one location moving wells
	17374-81			Mainland		Taglu gas field, blowouts, reasons
	17386-87			Mainland		List of chemicals used in Taglu gas field not yet given to environmentalists; alternative chemicals possible
	17416			Mainland		Taglu field, refrigeration of top 60 feet around wells
	17427-35			Faulkner	GPC -D-S	Niglintgak gas field, drilling plans, sites, techniques, equipments, safeguards

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115	17470-79	Jan. 23	IN	Faulkner	GPC-D-S	Niglintgak gas field, wells on other side of Kamuk channel; drilling techniques; number, spacing of wells
	17482-84			Stewart	GPC-D-I	Imperial's ADGO discovery, estimated reserves, geology
	17537-39			Stamberg	GPC-D-G	Parsons Lake gas field, drilling schedule techniques
	17550-53			Stamberg		Parsons Lake gas field, capital cost of drilling; tonnage of drilling equipment, material
	17557-63			Stamberg Good	GPC-D-G	Parsons Lake gas field, drilling techniques, schedule, future developments, area required
	17589-90			Scott	GPC-D-G	Parsons Lake drilling program not yet complete
116	17616-18	Jan. 24		Stamberg		Back-filling rig sumps, exploratory and production rigs, land use permit for back-filling sumps, camp sump and flare pit
	17656			Rempel	GPC-D-I	Bar C, Camp Farewell, Swimming Point, Tuktoyaktuk, bases for Delta Environmental Protection Unit equipment
	17735			Ellwood	Foothills	Drilling activity after pipeline completed, employment
118	18017-19	Jan. 27		Bayly Horsfield Motyka	COPE/ITC GPC-D-I GPC-D-G	Reindeer F-36, Kumak K-09, Tiktalluck K-26, hydrate fires; prevention, monitoring
	18031-34			Czaja	GPC-D-S	Cluster system, single production well and feeder line system, Shell's change of plans
	18054-66			Bayly Horsfield		Relief wells, construction; steel islands, monopods; abandoned drilling at Emmerk
	18080-81			Horsfield Motyka Czaja		Hydrocarbon based secondary industries
119	18137-40	Jan. 28		Berger		Proposed deep water drilling by DOME, water depth
	18190-94			Shaw	COPE	Blow-outs, frequency, chance of injury
120	18283-308	Jan. 29		Pimlott	COPE	Drilling in moving ice, Sverdrup Basin; blowouts from drill ships, frequency; amount of gas and oil; blowouts on shore, frequency; need for back-up drilling platform; spills, enforcement of anti-spill regulations; high geo-pressure risks
128	19478-81	Feb. 18		Trudeau	COPE	Techniques of drilling, blasting
	19544-54			Milne Marshall	COPE CAGPL	Cause of well blowouts; relationship between well depth and reservoir pressure; nearshore drilling off Prudhoe Bay
	19572-78			Milne		Description of a drilling ship; Canmar drilling program; hot oil on cold water
131	19996-98	Mar. 17	YK	Williams	CAGPL	Danger to supply lines of off-shore wells from ice scour

GAS CONTROL CENTRE

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XXX	3729	Apr. 15	YK	Purcell	CAGPL	Compressor stations
	3750			McMullen	CAGPL	Communications system, microwave radio
XXXII	4147-50	Apr. 18		McMullen		Failure of communications towers - alternate circuits
40	5206	May 16		Hurd	CAGPL	Monitoring compressor stations
	5226-27			Hurd		Flow studies
	5240-42			Hurd		Charges in data, major break
41	5353	May 20		Fielder	CAGPL	Occurrence of line breaks

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42	5498	May 21	YK	Hurd	CAGPL	Alarm system for compressor stations, etc.
62	8901-02	Sept.16		Scrimas	Foothills	Coordinate operation and maintenance programs
	8923-26			Mirosh	Foothills	Control centres in Calgary and Yellowknife; communication centres
63	8975-78	Sept.17		Mirosh		Compressor stations, meter stations, manpower to operate; maintenance procedures
68	10042	Sept.24		Hushion	Foothills	Yellowknife as centre for Foothills

GAS PLANT AND GATHERING LINE FACILITIES

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XV	1739	Mar.11	YK	Berger		Relationship to cross-delta route
XVII	1987-88	Mar.13		Bayly Mollard	COPE/ITC CAGPL	Potential conflict for gravel resources
XXX	3789-97	Apr.15		Purcell	CAGPL	Prudhoe Bay/Richards Island streams, composition
	3803-05			Purcell		Gas pressure
XXXII	4113	Apr.18		Purcell		Liquids from Richards Island processing plant - energy
	4138-39			Purcell		Processing plant to detect and reduce sulphur
XXXIV	4375	Apr.22		Marshall	CAGPL	Delta producers facilities map, #117
XXXVI	4660	May 12		Lucas	CARC	Application of right-of-way
46	6093	June 2		Templeton	EPB	Possible effects not assessed
	6143			Bliss	EPB	Potential for excess emissions
57	8049-52	Aug.19		Blair Berger	Foothills	Facilities operated by AGTL; arrangements made by Foothills for gas plant and gathering lines
58	8163-64	Aug.20		Blair		Intentions as to future gathering line and facilities
	8175			Blair		Foothills view on pipe size; cross-delta gathering line
52	6896-97	Aug.12	WH	Banfield	CAGPL	Impact on the Mackenzie Delta
53	7091-7100	Aug.13		Hemstock	CAGPL	Potential development on North Slope
C-23	2338-39	Aug.14		R. McCandless	Citizen	Impact of arctic supply on BC producers
61	8627-51	Sept.15	YK	Panel 4	Foothills	Location and link-up; temperature, Taglu gas plant, major supply of gas, pipeline start-up, scheduling
63	9074-82	Sept.17		Berger		Evidence to be considered re impact on Delta at Inuvik hearings
67	9925-29	Sept.23		Mirosh	Foothills	Producers responsible for construction of Taglu lateral
	10021			Mirosh		Consultation with Delta Producers re logistics, barge capacity
	10102-04			Hushion	Foothills	Assumption that gas plant operators will build all weather roads from Inuvik
69	10403-04	Sept.25		Owen	MVPI	Construction of gathering system; soil and terrain conditions
76	11268-98	Oct. 21		Weedon	CARC	Off-shore reserves; impact of inter-connecting wells and trunk lines, Arctic National Wildlife Range would suffer invasion
77	11468-69	Oct. 22		Roed	CARC	McMurry Transportation Corridor; distribution centre at Brandon; re: Edge of the shield route
78	11549	Oct. 23		Roed		Delta distribution, the gathering system considered from a terrain standpoint
81	12047-52	Nov. 5		Hemstock Minning	CAGPL CAGPL	Committee formed with Delta Producers to investigate borrow re: source use in Delta
82	12136-38	Nov. 6		Hemstock		Borrow resources required by Delta Producers (2-3 million cu. yds.)
87	13059-60	Nov. 14		Bayly	COPE/ITC	Gravel shortages, Parsons Lake
	13122			Marshall	CAGPL	Information on Delta environmental protection unit
90	13681-92	Nov. 19		Dabbs	CAGPL	Possible use of timber on right-of-way for facilities
94	14198-203	Dec. 2		Marshall		Gulf plant proposed at Parson's Lake, Shell construction of a plant in the Delta; Imperial plant, Shell wells, Taglu plant
	14207-08			Gunn	CAGPL	Thought to location of a liquefaction of natural gas plant in the Babbage Bite area
98	14862-63	Dec. 8		Marshall		Submission of maps, gas plant lines, Shell in Delta, Gulf at Parsons Lake

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100	15211-12 15319-25	Dec. 10	YK	Bayly Scott Finney	COPE/ITC MVPI Foothills	Facilities on reindeer grazing areas Taglu Plant situated in Kendall Island Bird Sanctuary; possible relocation of scrubbing plant; owned by Imperial
101	15402	Dec. 11		Bouckhout	Foothills	Taglu plant; Foothills to raise queries at Inuvik
102	15551-52 15679-80	Dec. 12		Peterson Novakowski	CARC CARC	No studies done by Environmental-Social Committee related to gas plants Impact on Richards Island grizzly bear, habitat reduction
105	16146-52	Dec. 17		Lent	CARC	Feeder pipelines adjacent to gravel road pads form gathering system
106	16256-57 16278	Dec. 18		Bayly Marshall	 CAGPL	Regulation of processing, gathering and truck pipelines Filing to National Energy Board re: extension of line to Shell Plant and realignment near Parson's Lake
111	16938-45	Jan. 16		Lent Ryder	MVPI	Impact on Bluenose herd, reindeer herd; above-ground feeder pipes obstructing reindeer herding; impact on reindeer wintering range
C-37	3573	Feb.10	IN	Benson	GPC-D	Plants - output capacities, manpower requirements
C-39	3704 3706 3709	Feb.18		Robertson Robertson Robertson	Citizen	Gas plant work camps located near Inuvik Gulf's gas gathering plant as a satellite town to Inuvik Increased activity of power plants and generating equipment, cost to community
112	17003-07 17022-24 17077-78 17086-101	Jan.20		Berger Horsfield Bayly Bliss Bliss	 GPC-D COPE/ITC GPC-D	Inuvik hearings will deal with impacts, etc. in Delta Flow lines, collection points, gas/liquid separation facilities, testing facilities Transporting materials to Parsons Lake via important whale area, Liverpool Bay, Husky Lakes Cutting timber in Delta area for pilings for construction; timber regeneration problems possible; emissions from gas plants; heat used for greenhouses; avoiding certain vegetation areas in locating facilities; exclusion from certain areas, proposed IBP sites; development causing reduction in reindeer range; sulphur dioxide impact on lichens, sulphur removal from gas
113	17251-52	Jan.21		Hobart	GPC-D	Family accommodation - for natives at gas plants
114	17280-300 17302-07 17312-34 17422-24 17433-41	Jan.22		Mainland Mainland Mainland Faulkner Faulkner	GPC-D-I GPC-D-S	Imperials's Taglu gas field, in chief evidence Taglu gas field sewage systems, shipping equipment, construction scheduling Taglu field, area required; well site arrangement, feeder lines; plant location; alternative; emissions Niglintgak gas field Niglintgak gas field, wellhead facilities gathering lines, gas plant support facilities, operations
115	17448-49	Jan.23		Faulkner		Niglintgak gas plant, materials will be barged in; capital costs
114	17462 17473-79 17495-506	Jan.23		Faulkner Faulkner Faulkner		Niglintgak gas plant will be built on piles, surrounded by dykes Niglintgak gas field, difficulty of gathering line crossing Kumak channel; reliance on feeder lines to gas plant; Swan Hills as example of widely spaced wells and feeder lines; Niglintgak won't be same Niglintgak gas field, possibility of gathering line rupture due to flooding, river bank degradation; resulting fire; pressure in lines; methane to depress hydrate formation temperature; dismantling after abandonment

GAS PLANT AND GATHERING LINE FACILITIES

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115	17523-29	Jan.23	TN	Faulkner		Niglintgak gas field, Shell will not build lateral to gas plant, up to carriers; reasons	
	17535-53			Stamberg	GPC-D-G	Parsons Lake gas field, including support facilities	
	17559			Good	GPC-D-G	Parsons Lake gas field, life could be extended by feeder system from another field	
	17572-75			Stamberg		Parsons Lake pilings for elevated gathering lines	
116	17613	Jan.24		Stamberg		Alternative locations to Parsons Lake for gas processing facilities, Yaya Lake and Swimming Point	
	17624-25			Scott Stamberg Cwyn	GPC-D-G GPC-D-G	Possible production of liquid hydrocarbons in liquid topping plant	
	17630			Scott	GPC-D-G	Decision to build topping plant, government role	
	17648-50			Rempel	GPC-D-I	Gas plants, heat island effect, fog, ice fog; effects of emissions from processing	
	17653			Rempel		Traditional hunting areas not directly subject to gas plants	
	17701			Appleton	GPC-D-G	Transportation of fluids by barge to Parsons Lake gas plant	
117	17790	Jan.26		Rempel		Kendall Island snow goose nesting colony, disturbance by gas plant sound emission	
	17794			Goudge	MVPI	Development of processing plants on the Delta, ecological impact	
118	17972-74	Jan.27		Sider Wopnford	GPC-D-G GPC-D-S	Gulf's gas plant locals; Waterton gas plant unionized	
	17996			Czaja	GPC-D-S	Size of plant from size of reserve, Niglintgak	
	18005			Bayly Motyka	COPE/ITC GPC-D-G	Alternate gas plant sites	
	18084-88			Goudge Horsfield Motyka Czaja	GPC-D-I	Future gas fields after Taglu, Parsons Lake, Niglintgak	
	18094			Horsfield		Possibility of building gas plant on artificial island	
121	18460-61	Feb.10		Barry	COPE/ITC	Potential impact of gas plant construction related to Taglu oil well study	
122	18719-22	Feb.11		Barry		Movement of gas plants off delta	
123	18749-50	Feb.12		Yates Elkin	MVPI MVPI	Relationship between regional planning process and government consideration of plant, line facilities	
125	19133-34	Feb.14		Snow	COPE/ITC	Fuel spillage - containment, clean-up difficulties	
130	19736	Mar.16	YK	Marshall	CAGPL	Gunn's concern for location of plants in Delta, views shared by Barry (CWS)	
	19744			Williams	CAGPL	Locations of Niglintgak, Parsons Lake gas plants	
135	20518	Mar.25		Hemstock	CAGPL	Above-versus below - ground gas gathering lines	
140	21370-80	Apr.8		Usher	COPE/ITC	Summary - events associated with gas plant proposal, formation legitimacy of Mackenzie Delta Gas Assessment Group	
C-44	4348-50	Mar.9	TUK	Horsfield	GPC-D-I	Possibility of a stocking plant	
163	25185-86	July 14	YK	Trusty	CAGPL	Hope that eventually all employees, families will reside in Inuvik	
	25191			Trusty		Provision of housing, single status staff	
178	27627-28	Aug 26		Merrett Pritchard	MVPI MVPI	Impact in communities; cost; housing for employees.	

GAS PLANT AND GATHERINE LINE FACILITIES (continued)

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189	29281	Sept 22	YK	Berger Nickerson	NWT/AM	Levies on pipelines and ancillary facilities in Pointed Mountain area
193	30203	Oct 5		Templeton	EPB	Land use authority should review gas plant sitings

GAS PRODUCING COMPANIES - DELTA

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C-33	3113	Oct. 9	FS	Berger		Gulf, Shell, Imperial found oil in the Delta
C-34	3378	Oct. 16	YK	Berger		Gulf, Shell, Imperial re: ownership of gas
C-36	3511-19	Jan. 29	IN	Mainland	GPC-D	Plant sites -flow, capacity, design, well drilling patterns, air transport at sites, manpower requirements-construction, operation phases; new seismic techniques; Beaufort Sea environmental program - offshore blowouts; island building - impact on whales; native employment, expansion of training programs; workers - working hours; community benefits from development - business expansion
	3545			Mainland		Cleanliness of seismic operations
	3557-58			Mainland		Hiring, training practices
C-37	3573-75	Feb.10		Benson	GPC-D	Gas plant and gathering line facilities, manpower requirements construction schedule
C-39	3753	Feb.18		Berger		Gulf, Shell, Imperial, company established to build oil pipeline
112	17003-07	Jan.20		Berger		Companies will present evidence at hearings
	17007-09			Scott	MVPI	Companies will present evidence on behalf of MVPI
	17009-13			Ballem	GPC-D	Opening remarks about companies giving evidence, reports done, cross-examination, outline, of evidence etc.
	17014-34			Horsfield	GPC-D	Exploration, development of oil and gas; geology; seismic work; drilling; production; delivery; history of industry, Mackenzie Valley; future prospects, reserves.
	17036-70			Bliss	GPC-D	Overview of ecology of Mackenzie Delta, in chief
	17072			Ballem	GPC-D	Filing of Shell supporting documentation for land tenure agreement application to DIAND
	17072-116			Bliss		Cross-examination by Bayly re impact on Mackenzie Delta
	17078			Ballem		Reports By Slaney about beluga whale population, Liverpool Bay; information will be made available
	17107-08			Bliss		Research by producers on effects of toxic chemical spills
	17116-24			Bliss		Cross-examination by Scott re impact on Delta of gas field activities
113	17129-85	Jan.21		Hobart	GPC-D	Socio-Economic overview of Mackenzie Delta, in chief
	17185-86			Hobart		Cross-examination by Marshall re effects of no further oil/gas development in Delta
	17186-266			Hobart		Cross-examination by Bayly re socio economic situation in Delta
	17218			Hobart		Gulf employment of Coppermine residents, problems involved
	17267-76			Hobart		Cross-examination by Scott re socio-economic impact of development in Delta

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113	17267-71	Jan.21	IN	Hobart	GPC-D	Study done for Gulf re impact of exploration employment on Coppermine residents
114	17336	Jan.22		Mainland	GPC-D	Companies paid for borrow material survey of Delta area
115	17443	Jan.23		Ballem	GPC-D	Filing Delta socio-economic supplementary concerns
	17475			Faulkner	GPC-D-S	Difference between Gulf, Shell, Imperial gas fields
	17591			Ballem		GPC-D helped fund socio economic study of Mackenzie communities
116	17640-41	Jan.24		Ballem		Ice roads start-up date foe construction corrected
	17655-56			Rempel	GPC-D-I	Delta oil industry co-operative, "Delta Environmental Protection Unit," to combat spills
	17677			Rempel		Environmental protection courses for Taglu development
	17682			Bayly	COPE/ITC	Companies' policy re use of dispersants to clean up oil spills
117	17794	Jan.26		Goudge	MVPI	Processing plants on the Delta - possible proliferation, ecological impact
118	17974	Jan.27		Goudge		Unionized gas plants, Gulf, Imperial, Shell
122	18695-701	Feb.11		Stein	COPE/ITC	Impact of construction, drilling fluids on delta fish
126	19189-92	Feb.16		Snow	COPE/ITC	DIAND environmental assessment of gas plant proposals; use of toxic chemicals, sewage treatment
132	20142-43	Mar.18	YK	Minning	CAGPL	Borrow material requirements, Shell and Imperial
155-A	23841-43	June30		Jelliss	NWT IB/MA	Imperial Oil , Norman Wells, revenues and taxes
	23880-81			Jelliss		Information from Imperial Oil difficult to obtain
194	30435	Oct.6		Wylie	MVPI	Interests in Interprovincial, Transmountain Pipelines
204	32261-94	Nov.19		Ballem	GPC-D	Final Argument

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C-39	3705	Feb.18	IN	Robertson	Citizen	Proposal to build air strip near Inuvik
115	17530-50	Jan.23		Scott Stamberg Guyn Good	GPC-D-G GPC-D-G GPC-D-G GPC-D-G	Evidence in chief re Parsons Lake gas field development
	17551-55			Stamberg		Cross-examination by Hollingworth re Parsons Lake gas field development
	17555-90			Stamberg Scott Good Guyn		Cross-examination by Bayly re Parsons Lake gas field development
116	17605-31	Jan.24		Scott Stamberg Guyn Good		Cross-examination by Bayly
	17617-18			Stamberg		Land use permit application for back filling sumps
	17631-39			Scott Stamberg Guyn Good		Cross-examination by Scott
	17674-75			Appleton	GPC-D-G	Control of siltation in lakes
	17678-79			Appleton		Informal training program

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116	17692-95	Jan.24	IN	Adjun R. Pederson Kamingoak	Citizen Citizen Citizen	Employment in Coppermine, benefits to natives
	17744			Motyka	Citizen	Relationship between gas reserves and water depth in Parsons Lake
117	17766-70	Jan.26		Appleton	GPC-D-G	Multiple year use of snow roads, Swimming Point to Parsons Lake, damage to vegetation
	17785			Appleton		Flying constraints, designated flight pathways
	17801-02			Appleton		Monitoring for environmental impacts
118	17950	Jan.27		Sider	GPC-D-G	Total permanent work force in the Delta
129	19708-09	Feb.19		Inglis	MVPI	Local gravel sources will be used at Parsons Lake
130	19744	Mar.16	YK	Williams	CAGPL	Routing, length of Parsons Lake supply line, location of gas plant
C-42	4046-51	Mar. 4	SACHS	Hnatiuk	GPC-D-G	Drilling in Beaufort Sea, interest in a well; prevention of a blowout, clean-up procedure, experiments underway to see where ice moves; sensitive are as protected; decrease in seal population due to bad ice year in 1974
	4098-108	Mar. 5		Hnatiuk		Oil spill clean-up, chances of a blowout; impact on food chain; drilling a relief well, reliability, use of radio beacons
C-44	4316	Mar. 9	TUK	Raddi	Citizen	Gulf's plans to dredge Husky Lakes, impact on fish
	4317-26			Hnatiuk		Blowouts when drilling, contingency plans, relief wells, burning oil off, beacons
	4345-47			Hnatiuk		Oil clean-up capabilities; Gulf does not intend to dredge Husky Lakes; comment on Schwartz's evidence re joint industry-government research program
C-46	4483-86	Mar.11	PAUL	Hnatiuk		Permission to drill on land and offshore, application and approval needed; effect on land claims settlement
	4491-92			Hnatiuk		Risk of blowout, contingency plans
	4502-12			Hnatiuk		Testing of drill ships in Arctic Ocean, Gulf of Alaska, Beaufort Sea; ships around Point Barrow, risk of blowout, ratio
	4512-17			Hnatiuk		Impact of oil spill on animals, chances of a blowout; effect on seals; amount of oil involved in spill; experiments on oil in ice in summer
163	25130-33	July 14	YK	Hobart	CAGPL	Briefing of white, native recruits on history, culture of other group; use of "straw-boss" as liaison between supervisors, native employees
	25138-43			Hobart		Study by Hobart, length of white employment; high job turnover
	25454-59			Hobart		Hiring at Coppermine, orientation seminar for native work crews

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C-39	3776-77	Feb.18	IN	Alonik	Citizen	Job with Imperial Oil, hiring experience
114	17278-301	Jan.22		Mainland Stewart	GPC-D-I GPC-D-I	In chief evidence re gas reserves, drilling, construction, operation etc., Taglu gas field
	17302-07			Mainland		Cross-examination by Hollingworth re Taglu gas plant, sewage, barge traffic, construction scheduling
	17307-87			Mainland Stewart		Cross-examination by Bayly re Taglu gas field, drilling, gas plant, etc.

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114	17388-417	Jan.22	IN	Mainland Stewart	GPC-D-1 GPC-D-1	Cross-examination by Scott re Taglu gas field, drilling, gas plant etc.
115	17481-85	Jan.23		Berger Stewart		Estimated gas reserves, Delta area
116	17657	Jan.24		Rempel	GPC-D-I	Delta Environmental Protection Unit equipment available at Imperial staging areas
	17673-74			Rempel		Controls to prevent siltation of lakes
	17676-77			Rempel		Formalized environmental training programs for Arctic personnel
	17740-43			Rempel		Protection from polar bear attacks; bear monitors, game officers
117	17758	Jan.26		Ballem	GPC-D	Model of Imperial's contingency plans
	17770			Rempel		Multiple year use of snowroads
118	17947	Jan.27		Tod	GPC-D-I	Natives employed in Delta
	18041-49			Horsfield	GPC-D-I	Public information, policy; definition of "serious adverse effects to the ecosystem"; contingency plans, oil spills
119	18197	Jan.28		Shaw	COPE	Table of breakdown of components of raw gas stream to go through Taglu
	18217			Pimlott	COPE	Hindcast study to support artificial island building program
121	18458-61	Feb.10		Barry	COPE/ITC	Taglu oil well study - effects of noise levels on wildlife
122	18572-75	Feb.11		Barry		Gravel removal from Pelly, Garry Islands, Tuktoyaktuk Harbour
	18583-84			Barry		Discussions on boundaries of Kendall Island Bird Sanctuary
	18720-24			Barry		Oil spill at Taglu, dredging, shipping proposals related to Taglu, enforcement of aircraft controls
124	19003-05	Feb.13		Veale Lewis	CYI COPE/ITC	Construction of concrete aggregate plant at Babbage Bight
126	19189-200	Feb.16		Snow	COPE/ITC	Supply of data - aspect of fishery hydrology associated with Taglu development; use of toxic chemicals, sewage treatment at plant
130	19744	Mar.16	YK	Williams	CAGPL	New supply line from Shell's gas plant connects to Taglu plant
C-40	3874-76	Feb.23	AK	Rempel	GPC-D-I	Clean-up procedures, spills at Camp Farewell
C-44	4223	Mar.8	TUK	Potiak	Citizen	Road construction plugged creeks, fish could not get through
	4330-32	Mar.9		Horsfield	Citizen	Shut-off system if pressure is lost due to pipeline break; underwater pipelines to artificial islands, exploration work
	4348-50			Horsfield		Possibility of a stocking plant
C-51	5181	May12	VAN	P. Chataway	Citizen	Installation at Tuktoyaktuk
C-56	6066	May19	REG	J. Pilling	Citizen	Television commercials

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114	17313-16	Jan.22	IN	Bayly Mainland	COPE/ITC GPC-D-I	Comparison of Shell's and Imperial's drilling systems in Delta
	17418-42			Faulkner Serra	GPC-D-S GPC-D-S	Evidence in chief re Niglintgak gas field development

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115	17444-49	Jan.23	IN	Faulkner Serra	GPC-D-S GPC-D-S	Cross-examination by Hollingworth re Niglintgak gas field development
	17449-79			Faulkner Serra		Cross-examination by Bayly re Niglintgak gas field development
	17485-507			Faulkner Serra		Cross-examination by Bayly re Niglintgak gas field development
	17507-29			Faulkner Serra		Cross-examination by Scott re Niglintgak development
116	17679-80			Wopnford	GPC-D-S	Site specific training program
117	17770	Jan.26		Wopnford		Multiple use of temporary roads
	17789			Wopnford		Transportation within Kendall Island Bird Sanctuary, Canadian Wildlife Services constraint
	17801			Wopnford		Monitoring for environmental impacts
	17875			Wopnford		Study to determine effect of industrialization on health services
118	17925			Wopnford		Transportation plans for Tuktoyaktuk, lightering base
118	17950	Jan.26	IN	Wopnford	GPC-D-S	Total permanent work force in the delta
121	18460-61	Feb.10		Barry	COPE/ITC	Alternate siting of proposed gas plant
122	18576-78	Feb.11		Barry		Seismic drilling permits in bird sanctuaries
129	19717	Feb.19		Inglis	MVPI	Total gravel at Yaya esker
130	19744	Mar.16	YK	Williams	CACPL	Routing of Niglintgak supply line
C-40	3868-69	Feb.23	AK	Greenland	Citizen	Drilling without native approval, western side of Richardson Mountains
	3872			Kayutak	Citizen	Shell drilling in his trapping area, clean-up crews polluting water
	3881			Arey	Citizen	Road on Calais Channel interferes with trapping; impact of airstrip on muskrat trapping
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C-I	31	Apr. 2	Aklavik	Husky	Citizen	Crossing land of the native people
	60-63			Tardiff	Citizen	Witness does not wish to see the pipeline built
C-6	481-576	May 30	Hay River	Sonfrere	Citizen	Native people not ready to let pipeline go ahead
	577-596	May 31		Camsell	Citizen	Hearing, Hay River Indian Village
C-7	643-44	June 24	F.F.	Naedzo	Citizen	Native people, Fort Franklin
C-8	684-87	June 25		Touchou	Citizen	People in Fort Franklin against the pipeline
	733			P.Kodakin	Citizen	Witness against the pipeline
	750-52			G.Kodakin	Citizen	People in Fort Franklin against the pipeline
C-9	784-833	June 26		Batan	Citizen	Maintenance of traditional way of life
C-10	849-51	June 26	W.L.	E. Yakaleya	Citizen	Destruction of the land
	854-60			F. Wido G. Meneko	Citizens	Concern about environmental impact
	867-69	June 27	F.N.	T. Blonden	Citizen	Pipeline opposed by Dene people
	872-82			P. Andrew	Citizen	Native people do not want pipeline built
	883-85			R. Hardy	Citizen	Native people against any development
	891-98			V. Menico	Citizen	People against pipeline being built
	901			H. Gladu	Citizen	Concern for future generations
	903-05			P. Macaulay	Citizen	Native people agreed that they do not want pipeline
	909			J. Hitchinelle	Citizen	Witness against pipeline; suggests barging as alternative system
	915			D. Yakaleya	Citizen	Native people against the pipeline
	941			J. McEwan	Citizen	Pipeline too great a threat to Fort Norman
	944-50			E. Yakaleya	Citizen	Native people opposed to the pipeline

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C-10	951-53	June 27	FN	F. Andrew	Citizen	Concerned about destruction of the environment			
	960-61			Stewart	Citizen	Native people against any pipeline			
	965-80			L. Blondin	Citizen	Native people opposed to the pipeline			
C-11	992-93	July 8	F McF	M. Pascal	Citizen	Native people opposed to the pipeline			
	994			J. Simon	Citizen	Native people concerned about social impact			
	997			C. Koe	Citizen	Would like pipeline moved to other area			
	1002			M. Vittrewka	Citizen	Native people against the pipeline			
	1004			M. Kunnizzi	Citizen	Impact on native people's way of life			
	1008-11			J. Kay	Citizen	Concern about destruction of land			
	1016-17			W. Nerysoo	Citizen	Destruction of traplines			
	1018-19			A. Kunnizzi	Citizen	Native people against the pipeline			
	1021-22			B. Alexei	Citizen	Native people against the pipeline			
	1023-27			M. Firth	Citizen	Native people against the pipeline			
	1027-50			J. Blake	Citizen	Native people against the pipeline			
	C-12			1085-87	July 9		P. Blake	Citizen	Threat of violence
				1109-12			D. Itsi	Citizen	People of Fort McPherson against the pipeline
				1120-24			G. Luxie	Citizen	Destruction of land, way of life
				1127-28			M. Wilson	Citizen	Concern about environmental damage
1128-30		J. Thompson	Citizen	Concern about damage to land					
1134-36		M. Kendi	Citizen	Concern about future generations					
C-13	1153	July 10		L. Vaneltsi	Citizen	Native people opposed to pipeline			
	1164			A. George	Citizen	Native people opposed to pipeline			
	1166-67			M. Francis	Citizen	Native people opposed to pipeline			
	1171			M. Snowshoe	Citizen	Fort McPherson community against the pipeline			
	1188			R. Nerysoo	Citizen	Not kind of development native people wish to see			
	1235			C. Carmichael	Citizen	Will spoil land, bring problems			
	1253A			J. Charlie	Citizen	Land belongs to native people			
	1260			J. Charlie	Citizen	Too close to Fort McPherson			
	1265			A. Stewart	Citizen	Interference with wild life			
	C-14			1281	July 11	O.C.	J. Tizya	Citizen	Concern that pipeline will destroy land
1288		P. Lord	Citizen	Native people against pipeline					
1292		C. Charlie	Citizen	Concern for younger generations					
1337		J. Moses	Citizen	People make living from the land					
C-15	1368	July 12		M. Kaye	Citizen	Concern for younger generations			
	1386			J. Netro	Citizen	Will affect hunting, trapping, fishing, Old Crow area			
	1394			S. Able	Citizen	Will cause social problems			
	1403			R. Kaye	Citizen	Native people against the pipeline			
	1414-15			S. Frost	Citizen	Concern that pipeline will damage way of life			
	1427			A. Peters	Citizen	Will bring social problems, drinking			
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow			
C-17	1719	July 17	F.L.	H. Deneron	Citizen	Native people against the pipeline			
	1739			Father Mary	Citizen	Pipeline will only help those in the south			
	1742-43			J. Christian	Citizen	Dene people unanimous in rejecting the pipeline			
C-18	1768-79	Aug. 5	FGH	F. T'Selele	Citizen	Land claims must precede development			
	1779-82			G. Barnaby	Citizen	Fort Good Hope			
	1783-85			J. T'Selele	Citizen	Fort Good Hope			
	1787-89			Rabisca	Citizen	Fort Good Hope			
	1789			H. Cochon	Citizen	Fort Good Hope			
	1790-91			L. Caesar	Citizen	Fort Good Hope			
	1793-95			J. Louison	Citizen	Fort Good Hope			
	1796			A. Abalon	Citizen	Fort Good Hope			
	1802			J. Kakfwi	Citizen	Fort Good Hope			
	1803			M. Lafferty	Citizen	Fort Good Hope			
	1808			A. Wilson	Citizen	Fort Good Hope			
1814	J. Pierrot	Citizen	Fort Good Hope						

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C-18	1816-18	Aug. 5	FGH	C. Barnaby	Citizen	Fort Good Hope			
	1821-22			J. Caesar	Citizen	Fort Good Hope			
	1829-31			L. Boucan	Citizen	Fort Good Hope			
	1833			J. T'seleie	Citizen	Resumed, Fort Good Hope			
C-19	1836-37	Aug. 6		G. Kochon	Citizen	Fort Good Hope			
	1838-45			S. Kakfwi	Citizen	Fort Good Hope			
	1848-49			S. Gully	Citizen	Fort Good Hope			
	1870-71			Ch. T'seleie	Citizen	Fort Good Hope			
	1879-80			Fr. Labatt	Citizen	Fort Good Hope			
	1883			B. T'Seleie	Citizen	Fort Good Hope			
	1884-85			Edgi	Citizen	Fort Good Hope			
	1894-95			Ritias	Citizen	Fort Good Hope			
	1896-97			E. Lennie	Citizen	Fort Good Hope			
	1898-99			J. Grandjambe	Citizen	Fort Good Hope			
	1899-1900			L. Gully	Citizen	Fort Good Hope			
	1901			C. Tobac	Citizen	Fort Good Hope			
	C-20			1902-06	Aug. 7		M. Rabisca	Citizen	Fort Good Hope
1942-43		M.R. Drybone	Citizen	Fort Good Hope					
1955		P. Mountain	Citizen	Fort Good Hope					
1992		M. Grandjambe	Citizen	Fort Good Hope					
2001-02		T. Pierrot	Citizen	Fort Good Hope					
2004		A. Edgi	Citizen	Fort Good Hope					
2009		B. Shae	Citizen	Fort Good Hope					
2010		J. Turo	Citizen	Fort Good Hope					
2015		W. McNeely	Citizen	Fort Good Hope					
2023		L. Pierrot	Citizen	Fort Good Hope					
2034		J. Charney	Citizen	Fort Good Hope					
2038		E. Cook	Citizen	Fort Good Hope					
2044-45		B. Edgi	Citizen	Fort Good Hope					
2048		B. Erutse	Citizen	Fort Good Hope					
2069		J. T'Seleie	Citizen	Fort Good Hope					
C-21		2167-68	Aug. 9	NW			C. Harris	Citizen	Concern for future; land
		2199					E. Delbroucke	Citizen	Natives own land
	2202-2215	W. Fraser			Citizen	Natives in majority			
C-23	2303-05	Aug. 14	WH	D. Greg	Citizen	Cumulative and social impact			
	2326-28			B. Bachelor	Citizen	Community hearing, Whitehorse			
	2333			R. McCandless	Citizen	Opposition until land claims settled			
	2343-50			I. Warner	Citizen	Resources not needed			
C-24	2399	Aug. 23	TL	E. Jumbo	Citizen	Stop the pipeline, land settlement first			
	2400			T. Kushia	Citizen	We don't want the pipeline			
	2415			E. Jumbo		Pipeline to stay away from Trainer Lake and the creeks that run into Trout Lake			
C-25	2609-10	Sept. 8	FS	C. MacDonald	Citizen	Impact of development on community			
	2610-11			C. Cousineau	Citizen	Natives not prepared for pipeline, associated development			
C-26	2634	Sept. 9		Norwegian	Citizen	Land belongs to natives; land settlement			
	2651-53			Paullette	Citizen	Corruption for Dene people; land settlement			
	2660			Nahanni	Citizen	Destruction of Dene ways, values, culture			
C-28	2793-95	Sept. 10	Wr	M. Hardisty	Citizen	Effects on community re: higher cost of living; compressor station re: Wrigley region; reasons for changed proposal re: trapping			
	2798-99			G. Hardisty	Citizen	No benefit to Indian; damage to land; decrease in game			
	2804-05			Williams	Citizen	Damage to fish and waterfowl ; lack of employment after completion of pipeline; not in favour of pumping station at River Between Two Mountains			
	2811			Sale	Citizen	Danger of pipeline re: explosion			

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C-28	2815	Sept.10	WR	V. Hardisty	Citizen	Danger of forest fire; importance of animals to Dene; benefit to Dene
	2816			R. Moses	Citizen	Danger of storm re: lightening and explosion; destruction of people, change
	2819			P. Moses	Citizen	Pipeline will cause destruction
	2821			G. Nayally	Citizen	Unnecessary; no benefit to Dene; effect of noise on animals; culture change
	2821-22			B. Moses	Citizen	Destruction of land, old ways of life
	2824			F. Horesay	Citizen	Risk of crossing Mackenzie River re: ice breakup
	2826-27			S. Horesay	Citizen	Destruction of Dene land
	2839	Sept. 11		E. Nayally	Citizen	Impact on animal availability re: hunting; fear of Wrigley becoming like Simpson; danger of overflow cracking pipeline and spilling oil, destruction of fish and wildlife
	2846-47			H. Hardisty	Citizen	Danger of spring breakup in Mackenzie re: fish and drinking water; destruction of land and hunting grounds
C-29	2870	Sept. 12		Norwegian	Citizen	Fear of breakage, damage to beaver
C-31	2976-77	Oct. 7	FR	Sayine	Citizen	Concern - environmental, social impact
	2988-92			Bosley	Citizen	Concern - pipeline impact on fishing, hunting, trapping
C-32	3054	Oct. 8		Lockhart	Citizen	Fear of leak re: destruction of game and fish
C-34	3346	Oct. 16		McRae	Citizen	Issues settled re: land claims, environmental impact, need to develop resource, people want project, public control
	3379			Foster	Citizen	Natives' aboriginal political rights, land claims
C-35	3436-38	Oct. 22	LI	Watson	Citizen	A no pipeline proposal, development delay period
C-40	3831-32	Feb.23	AK	F. Elanik	Citizen	Importance of trapping, hunting, fishing to natives in Aklavik; impact of pipeline
	3879-80			Stewart	Citizen	Does not like pipeline; way of life changed
C-42	4132	Mar.5	SACHS	Lucas	Citizen	Opposed because of lack of jobs after pipeline is built, loss of hunting and trapping skills
	4134			S. Carpenter	Citizen	Opposed because young people will move away from settlements
C-45	4403-05	Mar.10	TJK	A. Noksana	Citizen	Opposed because of game loss, fear for children's future
C-47	4528-29	Mar.13	ARR	H. Andre	Citizen	Opposed because of inconsiderate white man, disregard for native land
	4531-32			J. Andre	Citizen	Danger of pipeline, fear of starvation, Mackenzie flooding, fish dying
	4550-51			T. Andre M. Bullock	Citizen Citizen	Do not want pipeline
	4577-78			J. Andre O. Coyen	Citizen Citizen	Opposed to pipeline; afraid of what happened in Alaska
	4579			A. Andre	Citizen	Does not want pipeline, wants land for future generations
	4587-89			G. Blurcoat	Citizen	Does not want pipeline, land cannot be given away
	4619			N. Andre	Citizen	Do not need pipeline, tired of empty promises
C-49	4820	May10	VAN	Guy	Citizen	B.C. Federation of Labor, fighting for native rights
C-50	4961	May11		Obedkoff	Citizen	Risks of pipeline construction too great
C-53	5442	May14	CAL	Mayer	Citizen	Protesting the proposed Pipeline, as a means to satisfy greedy leaders
	5512			Carter	Citizen	Opposition to development before settlement of land claims
C-54	5676	May17	EDM	Laboucane	Citizen	Stated native concerns to be heeded if pipeline to be constructed
	5721			Robertson	Citizen	Negative economic, social and environmental impact outweigh positive advantages

GENERAL OPPOSITION TO THE PIPELINE (continued)

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C-55	5765-66	May18	EDM	K. Charest	Citizen	Pipeline can do nothing but harm
	5768			E. Lucier	Citizen	Pipeline should be stopped
C-56	6082	May19	REG	P. Prebble	Citizen	Concern about social, economic consequences
	6123			J. Roberts	Citizen	Energy corridor
C-59	6539	May 26	TOR	G. Loeb	Citizen	Opposed to pipeline, any form of development
	6542			W. Gallop	Citizen	Need for land claim settlement; too many unanswered questions
	6611-12			C. Kalevar	Citizen	Too high costs, further emphasizes global inequalities
C-63	7105-09	June 1	MTL	Innocenti	Citizen	Opposing present and future pipeline construction
C-68	7836-37	July 16	FP	G. Gargan	Citizen	No future for upcoming generations if pipeline built
C-70	7972	Aug. 9	RE	S. Football	Citizen	Pipeline will not do them any good
	7979-80			L. Wellin	Citizen	Pipeline will spoil everything
	7982-84			J. Mackenzie	Citizen	Concerned for young people, how pipeline might affect them
	7991-92			E. Murphy	Citizen	Not in favour of pipeline
C-71	8006	Aug. 10		N. Black	Citizen	Opposed to pipeline, wants to keep animals
	8016			C. Football	Citizen	Will spoil land; jobs will be given to Southerners
	8020			E. Lafferty	Citizen	Does not want pipeline, but suggests a railway to transport gas
	8021			G. Blondin	Citizen	Wants to avoid impact felt in Alaska by pipeline
	8024-25			A. Lamouelle	Citizen	Native people should not agree with white man; gas should be transported via truck; native will not be employed on pipeline
	8030-31			P. Tlokka	Citizen	Dangers of a break, flooding of Mackenzie River, oil spill
	8035-36			G. Mackenzie	Citizen	Pipeline will kill natural environment, bring social destruction, loss of native rights
	8048-49			G. Blondin	Citizen	Does not support pipeline because of relationship between Dene and land
	8050			L. Weyallon	Citizen	Impact on hunting
C-72	8075	Aug. 11		Chief Charlo	Citizen	Nothing to be gained from pipeline
	8078-79			A. Arrowmaker	Citizen	Against pipeline because of what happened in Alaska
	8083			A. Arrowmaker		Fear of forest fire, thunderstorm, concerned for safety of pipeline
	8096			A. Lisk	Citizen	Afraid of pipe breaking, causing disaster; local people hired only to make it look good
	8118-20			S. Bruneau J. Erasmus	Citizen Citizen	Against pipeline; pipeline employees will bring alcohol and drugs into community
	8129-30			A. Eronchi	Citizen	Disagrees with pipeline, afraid it will burst
	8140			N. Black	Citizen	Pipeline will never feed him
	8149			P. Huskey	Citizen	Pipeline will hurt land, money, food, way of life
C-73	8164	Aug. 12	LLM	J. Rabesca	Citizen	Afraid pipeline will destroy their means of survival; pipeline companies taking too many chances
	8166			J. Roamie	Citizen	Must protect their land
	8174			J. Tsatchia	Citizen	Ground and soil will be destroyed
	8178-80			J.Z. Fish	Citizen	Their right to the land; fear of land being destroyed by oil spill
	8183-84			J. Nitsiza	Citizen	Pipeline will make situation worse for native people
	8186			P. Beaverho	Citizen	Danger of forest fire near pipeline
	8189			P. Beaverho		Helping each other oppose pipeline because of dependence on animals

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C-73	8192	Aug. 12	LLM	I. Nitsiza	Citizen	Saving land for new generation
	8195-97			P. Nitsiza	Citizen	Opposing pipeline because of fear of fire near pipeline; supporting other Dene in opposition
	8202-04			J. Nitsiza	Citizen	They depend on land for food and money; cannot support a pipeline, creation of disasters caused by pipeline
	8206-08			J. Moosenose	Citizen	
	8206-08			M. Mantla	Citizen	Pipeline will destroy animals, soil; chance of fire
	8211-12			C.P. Nitsiza	Citizen	High dependence on land; opposes pipeline but approves of railway
	8214-17			L. Moosenose	Citizen	
				M.J. Simpson	Citizen	Opposes pipeline for future generations; save resources for children; land will be destroyed, children will starve
				R.Z. Fish	Citizen	
				M.A. Rabesca	Citizen	
	8218-20			M.A. Simpson	Citizen	Does not want children to suffer
				A..Simpson	Citizen	
	8223			F. Zoe	Citizen	No support for pipeline; depend on land
				M.A. Zeremichica	Citizen	
	8227-30			M. Moosenose	Citizen	Government trying to take land from native people; importance of land to way of life
				A. Simpson	Citizen	
	8232-36			C. Jeremichica		Not interested in having a pipeline built; land destroyed by fire and lakes polluted, does not want pipeline
				M. Nitsiza	Citizen	
	8237-38			M. Tlokka	Citizen	Save land and life before it is destroyed; will not support pipeline
				L. Simpson	Citizen	
C-74	8253	Aug. 13	RL	Arrowmaker	Citizen	Opposed
	8254			P. Zoe	Citizen	Too close to native community
	8255-56			B. Apple	Citizen	Fear of fires, destroy native lifestyles
	8258			H. Simpson	Citizen	Future of children, inability to live off land
	8263			A. Tailbone	Citizen	Opposed
	8265-66			D. Chocolate	Citizen	Opposed
	8267			P. Drybone	Citizen	Opposed
	8269			A. Quitte	Citizen	Future of children
	8770-71			J. Wetarde	Citizen	Conservation, lifestyles
	8771-72			J. Woga	Citizen	Lifestyles, scarcity of animals
	8272-73			P. Mantla	Citizen	Maintain lifestyle
	8274-75			L. Wedewin	Citizen	Agree with others
				C. Gon	Citizen	
	8275-76			P. Apple	Citizen	Opposed
				A. Wedewin		
	8276-77			J. Wedewin	Citizen	Opposed, agree with others
				P. Mantla, Jr.	Citizen	
	8277-80			J. Quitte	Citizen	Pollution
				J. Mantla	Citizen	
	8282-83			R. Wetarde	Citizen	Future of children, preservation of lifestyles
				J. Black	Citizen	
	8283-84			M. Arrowmaker	Citizen	Future of children, agree with others
				J. Gon	Citizen	
				T. Wedewin	Citizen	Opposed, agree with others
	8285			E. Wetarde	Citizen	
	8286-87			D. Wedewin	Citizen	Opposed, agree with others
				M. Dragon	Citizen	
				J. Mantla	Citizen	
				M. Apple	Citizen	
				M. Quitte	Citizen	
	8287-88			B. Zoe	Citizen	Destroy lifestyle, agree with others
				T. Arrowmaker	Citizen	
	8289			C. Chocolate	Citizen	Opposed
	8290-91			J. Zoe	Citizen	Opposed, hearts will break
				A. Wetarde	Citizen	
				C. Wetarde	Citizen	
	8292-93			L. Mantla	Citizen	Opposed
				M.A. Wetarde	Citizen	Agree with others, oil spills, pollution
				M. Wetarde	Citizen	
				G. Tailbone	Citizen	
				L. Black	Citizen	

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C-74	8294-95	Aug. 13	RL	H. Mantla F. Quitte J. Wetarde	Citizen Citizen Citizen	Opposed, spoil land, need land
	8296-98			F. Arrowmaker A. Mantla C. Tailbone J. Tailbone	Citizen Citizen Citizen Citizen	Destroy land, animals leave, too close to hunting grounds, no food or drink
	8298			D. Gon T. Apple	Citizen Citizen	Agree with others
	8303-04			Arrowmaker	Citizen	Speak for group, destroy way of life
C-75	8310	Aug. 21	CL	I. Cuzon	Citizen	Disagree with whiteman, live off land
	8314			J. Eodz i	Citizen	Restrict freedom
	8315			E. Blancho L. Oudzi	Citizen Citizen	Opposed; live off land
	8317			V. Cuzon	Citizen	Ruin land, future of children
	8320			A. Orlias	Citizen	Opposed
	8337			C. Cuzon	Citizen	If forest fire pipeline might blow up
	8338-39			J. Martin	Citizen	Nothing good about it, disturb land
	8348			M. Cuzon	Citizen	Opposed
C-76	8356-62	Aug. 25	DET	Chief Charlo	Citizen	Want land unspoiled
	8366-67			A. Liske	Citizen	Will spoil land
	8370-71			I. Tsetta	Citizen	Things will be destroyed
	8375			M. Noel	Citizen	Opposed
C-77	8387	Aug. 26		F. Betsina	Citizen	Affect migration routes, lifestyles
	8422			A. Potfighter	Citizen	Opposed
	8423-24			G. Doctor	Citizen	Dangerous
	8426			N. Betsina	Citizen	Afraid will blow, fear of lives
	8428-30			H. Tobie	Citizen	Water pollution; dangers to people
	8433			I. Tsetta	Citizen	Opposed
	8434			F. Betsina	Citizen	Opposed
	8435			J. Tobie	Citizen	Opposed
	8436			Chief Charlo	Citizen	Bring disaster to line, fear of fire
	8410-12			V. Abel	Citizen	Destroy land and lifestyle
181	28184	Sept. 8	YK	Breckenridge	MVPI	Not required, environmental damage, strain on labour markets and social services, no benefits to residents

GEOTECHNICAL INFORMATION

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XIX	2167-89	Mar. 17	YK	Clark	CAGPL	Definition of geotechnical, soil mechanics; design-techniques; pipelines in permafrost; input of geothermal data re: design of river crossings, slope stability etc.
	2189-94			Clark		Environmental considerations; drainage & erosion, borrow materials
	2194-2217			Williams	CAGPL	Arctic test sites; Sans Sault test site
	2217-22			Clark		Test sites; drilling programs; ground water study
XLXA	2227	Mar. 17		Clark		
	2277-79			Clark		Interior route; seismic data
	2283-89			Hardy	CAGPL	Interior vs. coastal route; talus slopes; confidence in design
	2290			Clark		Fort Simpson route change
XX	2296-2312	Mar. 18		Clark		Responses, PAAG Report; chilled pipe; frost heave; differential and total heave
	2312-41			Slusarchuk	CAGPL	Slide presentation; frost, frost heave; chilled pipe; ground water in continuous and discontinuous permafrost; Calgary test site and facilities, equipment; depth of burial, overburden pressures; application of test results; predictions
XXIII	2705-06	Mar. 21		Clark		Fort Simpson route change, bore holes
XXIV	2768-78	Apr. 7		Clark		Cost of geotechnical problems - pile support method
XXIV-A	2888-97			Clark		Geotechnical solutions for preliminary design
XXV	2950-64	Apr. 8		Genest	CAGPL	Route changes - second alignment sheet

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XXVI	3134 3244-50	Apr. 9	YK	Slusarchuk Scott Slusarchuk	CAGPL MPVI	Soil susceptible to heave Stress history of a soil, consolidation testing, shear planes, water flow pressure relationship, shutoff pressure
XXVII	3292-96 3296-3308 3333 3365	Apr. 10		Williams Scott Slusarchuk ⁴	CAGPL	Test site facilities, location, range of soil conditions Soil types, thaw features, ice content, Sans Sault area Subsidence Thaw settlement, ice-rich permafrost
XXVIII	3491 3527-28 3537-39 3554	Apr. 11		Clark Morgenstern Morgenstern Morgenstern	CAGPL CAGPL	Methodology for deciding culvert size Degree of slope, sandwich technique Local conditions, slope characterization Geotechnical construction Personnel
XXIX	3634-35 3670	Apr. 14		McRoberts Purcell	CAGPL CAGPL	Ice wedge cracking Effects of tests, pipeline safely tested
XXXI	3994	Apr. 16		Purcell		Buried line
XXXII	4157-60 4075-80	Apr. 18		Purcell		Liquefaction due to earthquakes Interaction of engineers and designers
XXXVII	4783	May 13		Dau	CAGPL	Inspectors checking work of contractors
42	5428-30 5469-70 5483-92	May 21		Fielder Fielder Scott Hurd	CAGPL CAGPL MVPI CAGPL	Sans Sault Ground data chart Data bank of the trench
46	6073	June 2		Craik	EPB	EPB report #2 appendix IV - study of potential problems
59	8374-75 8378-82 8387-88	Aug. 21		Drew Gillespie Gillespie	Foothills Foothills Foothills	Foothills use of terrain typists; drill holes Past arctic studies, ground checks; test hole data Projects, winter drilling, river crossing location community servicing
	8401-06 8425-29 8445			Mirosh Mirosh Drew	Foothills Foothills Foothills	Studies re: areas of continuous and discontinuous permafrost; chilled pipeline; ground susceptibility; permafrost depths Drilling in sensitive areas; high ice content soils, river crossings; mathematical modeling of slope stability Terrain sensitivity interpretation; terrain typing and mosaics, terrain sensitivity rating
51	6790-91	Aug. 11	WH	Hemstock	CAGPL	Consideration similar for alternative routes as Mainline route; terrain conditions
52	6926-27 6943	Aug. 12		Clark Clark	CAGPL	Effects of looping Terrain sensitivity of various routes
55	76-7-24	Aug. 15		Hughes	CARC	Glacial deposits, permafrost and ground ice areas; thermokarst ponds and depressions
61	8684-90	Sept. 15	YK	Mirosh Hensch Lazerte	Foothills Foothills Foothills	Heat transfer to soil; gas temperature variations; outage down stream
61-A	8701-09 8720			Mirosh Walker		Studies; mathematical modeling; soil conditions, water table, frost heave; river crossings, soil data Studies, geotechnical and surface geology
62	8779-84			Walker Mirosh	Foothills	Studies, consultants; river crossings; drill hole information
64	9271-451 9273-82 9285-87 9289-98 9300-11 9328-34	Sept. 18		Panel 9 Yip Davison Claridge Spafford Mirosh	Foothills Foothills Foothills Foothills Foothills	Direct evidence of Foothills Geotechnical Panel Causes of frost heave; role of overburden pressure Terrain typing Slope stabilization; drainage and erosion control River crossings - scour, stream flow Number of compressor stations on permafrost
65	9452-594			Panel 9		Cross-examination of Foothills Geotechnical Panel
66	9656 9674-99	Sept. 22		Mirosh Bauer	Foothills	Geotechnical information classed as preparatory work More studies needed to determine sensitive areas to be avoided during clearing

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66	9775-76	Sept.22	YK	Mirosh	Foothills	Further studies required to determine amount of aggregate required for slope stabilization
67	9940-41	Sept.23		Mirosh		Studies of impact of grubbing one or two years in advance of construction
	9950-59			Bauer	Foothills	Cutting & filling to level surace; slope stabilization; angle of cuts to side slopes difference from CAGPL approach re snow roads
	10219-40			Templeton	EPB	Adams' report on snow roads; opinion of Dr. Thompson
70	10507	Sept.26		Owen	MVPI	Snow roads; survey work; areas of permafrost
	10523			Owen		Kotanelee River crossing; glacio-lacustrine deposits
79	11714-17	Nov.3		Dabbs	CAGPL	Determination of slope stability and erodibility rating of soils
80	11850-56	Nov.4		Hemstock	CAGPL	Terrain information available when route selected
87	13181-92	Nov. 14		Drew	Foothills	Terrain sensitivity ratings as environmental aid, not geotechnical
115	17465-68	Jan.23	IN	Serra	GPC-D-S	Niglintgak gas field, possibility of basin subsidence, prevention
	17545-46			Stamberg	GPC-D-G	Parsons Lake gas field, to find suitable location for gas plant
130	19787	Mar.16	YK	Marshall	CAGPL	Geotechnical aspects of Mackenzie Delta terrain from "Supplement to application" by Hurd in volume of cross-delta route studies
	19791	Mar.16		Williams	CAGPL	Excavation studies to determine stability
131	19849-51	Mar.17		Clark Williams	CAGPL	Loading required to prevent pipe movement if liquifaction occurs, Shallow Bay, other Delta crossings
	19857			Hollingshead	CAGPL	Ditching, Langley Channel crossing
	19865			Williams		Use of gravel on overland portions of cross-Delta route
	19878-80			Williams		Gravel requirements for cross-Delta route
	19959-60			Clark		Liquifaction tests of Delta river crossings show gravel back-fill of trenches unlikely
132	20034-35	Mar.18		Clark		More potential for frost heave on cross-Delta route
200	31618-23	Nov.15		Scott	MVPI	Establishment of Geotechnical Review Board
201	31763-64	Nov.16		Marshall	CAGPL	Cross-Delta, Circum-Delta routes compared
	31778-81			Marshall		Application of standard project flood design unduly conservative; subsurface flow of North Slope rivers; pipeline chilling - last point of cold flow
202	32042-48	Nov.17		Anthony	CARC	CAGPL remedial measures for frost heave, sub-surface drainage, river crossings, require re-evaluation; limit of chilling

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XIX	2170	Mar.17	YK	Slusarchuk	CAGPL	Geothermal analysis, definition
	2177-89			Clark	CAGPL	Changes in ground temperature; settlement, compressability, permeability; ground thermal regime; use of computers; river crossings, slope & valley stability; pipeline buoyancy; frost heave
	2194			Clark		Collection of geothermal data, Sans Sault test site
	2204-05			Williams	CAGPL	Sans Sault test site; temperature sensors & strings
	2209					Ditch Section - ice lenses, wedges
	2212-14					Ice thawing in summer
	2219			Clark		Test sites; geothermal models
XIXA	2227			Clark		
XX	2318-25	Mar.18		Slusarchuk		Slide presentations; instrumentation: thermistors, piezometers
	2337-38					heave gauge; prediction of position of frost bulb. Geothermal analysis used to predict depth of frost front

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XXI	2472-76	Mar.19	YK	Clark	CAGPL	Definition of convection and conduction; computer analysis re: ground thermal regime around chilled pipe
XXVI	3154-57 3186 3217-21 3273-75 3310-14 3360 3374-75 3376-3404	Apr.9		Slusarchuk Slusarchuk Clark Clark Slusarchuk Morgenstern Williams Scott	CAGPL CAGPL MVPI	Frost heave tests Interaction of frozen soil and pipe Vegetation clearing, pre-start up Ice lenses, driving gradients, thermo-gradients, Gibbs free energy. Testing, thaw, surface settlement, cold/warm/hot test sections Warm permafrost Thawing, winter roads Greenhouse effect, thawing, degradation, thermal conductivity, degree of accuracy, predictions Battell-Brooker
XXVII	3405-3426 3427-34	Apr.10		Slusarchuk Morgenstern McRoberts	CAGPL	Temperature prediction, one foot below surface Freeze/thaw, discontinuous/continuous Formation of ice wedges
XXVIII	3472 3513-17	Apr.11		Scott Scott	MVPI	Conversion, water flow, frost bulbs, permafrost Melting processes, permafrost
XXIX	3598-3610 3615-16 3687-94	Apr.14		Clark Holmberg	CAGPL CAGPL	Thermister strings, temperature probes Computer analysis - ground temperature regime Transition temperatures - brittle to ductile fractures
XXX	3725 3763	Apr.15		Price Purcell	CAGPL CAGPL	North of 60° , temperature range Above-ground pipeline, steel properties
XXXII	4115-23	Apr.18		Reid	CAGPL	32°F water discharged after testing, effect on ice
XXXIII	4320 40 41 42 46 50 61-A	Apr. 21 May 16 May 20 May 21 June 2 June 6 Sept.15		Williams Hurd Hurd Scott Adam Adam Horte Glockner	CAGPL CAGPL CAGPL EPB CAGPL Foothills	Thermister strings - snow roads trafficability Subsurface temperature - thermistors, diodes Revegetation; restoration of thermal balance Ground thermal require monitors Vegetation in natural insulation cause geomorphic changes Change as thermal barrier to permafrost degradation Thermistor installations, memo Studies and research; soil-pipe interface; ice lenses; permafrost and ground ice; frost bulbs; stresses, longitudinal; frost heave pressure; overburden pressure
62	8767-71 8848-54	Sept.16		Mirosh Mirosh	Foothills	Research, studies; Foothills consultants, test hole data Permafrost zones; temperature of pipe; thaw settlement; soil settlement problems
63	8987-89	Sept.17		Lazerte	Foothills	Soil temperatures, changes in soil temperatures
64	9273-451 9273-82 9281	Sept.18		Panel 9 Yip Yip	Foothills Foothills	Direct evidence of Foothills Geotechnical Panel Tests of ground temperature near Inuvik; causes of frost heave Effects of geothermal disturbance on slope stability; freezing and interruption of drainage patterns
65	9314-15			Hwang	Foothills	Object of geothermal analysis; differences in approach of CAGPL & Foothills
67	9452-94 9931-33 9945-59	Sept.23		Panel 9 Mirosh Bauer	Foothills Foothills Foothills	Cross-examination of geotechnical panel Study of thaw periods on terrain after clearing; Foothills geothermal modelling Questionable plan to use snow mound to prevent frost penetration of ditch
73	10840-970	Oct.16		Frost Heave Panel	CAGPL	Soil temperatures; flow of water in unfrozen soils; heaving pressure; shut off pressure; ice lenses
79	11719-22 11740-41	Nov.3		Dabbs Harlan	CAGPL CAGPL	Effect of vegetation on thermal regime Possibility of subsurface water freezing
80	11805-07 11846-47	Nov.4		Clark Clark	CAGPL CAGPL	Warmer permafrost areas in relation to cut slopes Geothermal considerations in determining level of cover,depth of scour at breaks

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80	11947-48 12062-63	Nov. 4	YK	Dabbs Clark	CAGPL CAGPL	Chilling and revegetation restoring permafrost regime Use of imported backfill for mound when ice-content high in ditched soil
82	12288	Nov. 6		Hemstock	CAGPL	Possibility of pipe popping out of ground when line abandoned due to thawing of frost bulb
85	12646-60	Nov. 12		Harlan		North Slope, river crossings, interruption of ground water flow
86	12853-55	Nov. 13		Vaartnou	Foothills	Revegetation restores soil temperature regime
90	13696-715	Nov. 19		Dabbs	CAGPL	Degradation of permafrost table due to clearing; recovery time
130	19757-58	Mar.16		Hollingshead	CAGPL	Studies of ground temperature in Delta area

GOVERNMENT - FEDERAL

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XVI	1853-58	Mar.12	YK	Williams	CAGPL	Input re: route selection, location
XVII	1888-95 2004-08	Mar.13		Williams Anthony	CAGPL CARC	Input re: route selection; May 1972 meeting Meeting May,1972 with Arctic Gas; availability of minutes
XXI	2413-14 2516-26	Mar.19		Anthony Mercredi	CAGPL Citizen	Availability of federal government reports Northern policies, research projects - 18 million dollars spent
XXIV	2763	Apr.7		Scott	MVPI	Supplemental list of government documents
XXIX	3611-14	Apr.14		Scott		D.P.W. highway criteria differs from pipeline
XXX	3748	Apr.15		McMullen	CAGPL	Department of Communications
XXXIII	4326	Apr. 21		Dau	CAGPL	D.P.W. - final site selection and design of wharves and stockpile sites
XXXVI	4655-68 4671-72 4674-77 4683 4692	May 12		Lucas Bell Genest Scott Berger	CARC NWT IB/MA CAGPL	Funding for environmental groups cut off Funding for environmental groups Funding decision is political - outside Berger's function Government responsible for funding environmentalists Funding of environmental groups
XXXVII	4701 4724-25 4766-69 4801	May 13		Scott O'Rourke Bayly O'Rourke	CAGPL COPE/ITC	Funding for Northern Assessment Group Involvement in dredging problem Territorial/federal jurisdiction over labour regulations Great Slave Lake Railroad
XXXVIII	4872-74 4933-35 4953-54	May 14		Lucas Lucas Williams		Territorial Lands Act, Northern Ireland Waters Act, certificate of public convenience and necessity Possible design review Control data, surveys
40	5191-98 5237	May 16		Fielder Hurd	CAGPL CAGPL	Department of Industry, Trade and Commerce Government water standards
41	5364-65	May 20		Lucas	CARC	Testing sewage effluent, government standards
42	5462-64	May 21		Hurd	CAGPL	Canadian Wildlife Service
43	5709-13	May 22		Templeton	EPB	Government bodies, regulatory functions
44	5729 5770 5839-40	May 23		Genest Horte Scott	CAGPL CAGPL MVPI	Monitoring agency set up by government Subsidization of fuel now servicing communities Policy witness discuss consultations with federal govt.
45	5933-37 5946-48	May 24		Bayly Berger	COPE/ITC	Government agencies inspecting pipeline project Governmental authority during construction
46	6033-37 6043-56 6057-58	June 2		Templeton Templeton Templeton		Regulatory framework Environmental protection level of performance Adequacy of government controls studied
47	6185-89 6235 6254	June 3		McT-Cowan Templeton Goudreau	EPB EPB EPB	Agreement re: mapping of bird nesting sites Oil and gas development policies Important role in support of natives
48	6315-24 6344-74 6378 6424-46	June 4		Craik Templeton and Panel Templeton Templeton	EPB EPB	Jurisdictional problems, enforcement, single department need for environmental protection Recommendations made e.g. land use plan, training program, single control agency Need adequate environmental regulations and enforcement Integral part of project, single agency needed

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49	6546-70 6600-04	June 5	YK	Horte	CAGPL	Meetings with CAGPL re: highway and pipeline routes Issue permit re: authority, regulations, etc.
C-I	2	Apr. 2	Aklavik	Berger		Set out the Guidelines for Northern Pipelines
C-II	68	Apr. 3		Greenland	Citizen	Bypassed peoples' wishes on development
C-4	195-196 267-272 273-282	May 28	Hay River	Berger		Inquiry Order-in-Council, examination of CAGPL application
				Lantz	Citizen	Control of resources
				S. Dean	Citizen	Requirements for bonding for government contracts
C-5	293-304	May 29	Hay River	Morin	Citizen	Freshwater Marketing Board, Crown Corporation
C-6	481-576 580-595	May 30 May 31		D. Sonfrere	Citizen	Signing of the treaty
C-7	600 622 643	June 24	F.F.	Camsell	Citizen	Relation to native people and CAGPL
				Kodakin	Citizen	Signing of the Treaty; money received
				Naedzo	Citizen	Poisoning wolves; effect on other animals
				Naedzo		Have broken the treaty signed in 1921
C-8	697-705 718-21 748-49	June 25		Tekzo	Citizen	Northwest Lands and Forest Service
				Nielly	Citizen	Control, royalties; position of the native people
				G. Kodakin	Citizen	Government activities; family allowances, old age pensions
C-9	800-06 827-29	June 26		R. Savi	Citizen	Treaty; changes necessary
				G. Kodakin	Citizen	Signing of treaty, 1921
C-10	838 876-82 894-98 965-70	June 26 June 27	W.L. F.N.	J. Blondin	Citizen	Priorities, relationship between northern people and development
				P. Andrew	Citizen	Indian Brotherhood, struggle for funding
				R. Clement	Citizen	Issue of land use permits against settlement council wishes
				L. Blondon	Citizen	Government unconcerned about native people
C-12	1133-34 1137-39	July 9	F. McP.	R. Peters	Citizen	Signing of treaty, 1921
				W. Nerysoo	Citizen	Treaty money
C-13	1179 1225 1251-51A	July 10		N. Colin	Citizen	Treaty, land claims
				J. Semple	Citizen	Treaty money
				J. Simon	Citizen	Government does not listen to views of the native people
C-15	1372 1450-51	July 11 July 12	O. C.	W. Moses	Citizen	Department of Fisheries, Fisheries Research Board
				B. Allen	Citizen	Member of Parliament should be present
C-16	1588	July 13		R. Sharpe	Citizen	DREE programs, attempts to generate activity in small communities
C-17	1697 1733-36 1752-56	July 16 July 17	F.L.	H. Deneron	Citizen	Request for loan to start a business
				Father Mary	Citizen	Housing available to whites, natives
				P. Nahanni	Citizen	Claims land as Crown land
56	7821 7870	Aug. 18	YK	Horte	CAGPL	Addressing by CAGPL re: construction of Mackenzie Highway to Fort Good Hope
				Horte		Cost sharing: aircraft landing sites
57	8028	Aug. 19		Blair	Foothills	Incorporation of Foothills by Department of Energy, Mines and Resources; consent by Department of Indian and Northern Affairs
58	8200-01	Aug. 20		Blair		Foothills believes that it is a government responsibility to decide on Canadian carry of Alaskan gas
52	6902-07 6954-56 6936-38	Aug. 12	WH	Dau	CAGPL	ACND Committee report on oil pipeline
				Hemstock	CAGPL	Communication re routing with CAGPL
				Dau		Comparison with U.S. - CAGPL routing discussions
53	7174-25	Aug. 13		Trusty	CAGPL	Strain on services due to pipeline
55	7626-27	Aug. 15		Morlan	CARC	National Museum of Man declared as sole federal agency responsible for prehistoric archaeology on federal crown land

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C-18	1780-87	Aug. 5	FGH	G. Barnaby	Citizen	Influence on native culture
	1793-94			J. Louison	Citizen	Corporate influence on government
	1787			F. Rabisca	Citizen	Treatment of native people as children
	1808			A. Wilson	Citizen	North controlled by Ottawa
C-19	1838-45	Aug. 6		S. Kakfwi	Citizen	Inability of government to enforce pipeline codes
C-20	1929-30	Aug. 7		G. Scott	Citizen	Development sets off native dependency on government
	1942-46			M.R. Drybone	Citizen	Government interference with Dene way of life
	2042-43			J. Moynihan	Citizen	Government should protect the land & human rights
	2064-69			F. Rabisca	Citizen	Treatment of Indian people
	2072			F. T'Seleie	Citizen	Negotiate land settlement
C-21	2096	Aug. 9	NW	G. Monuik	Citizen	Settlement of native land claims
	2125			C. Barnabe	Citizen	Subsidies to natives
	2175-77			R.Yakeleya	Citizen	Conflict between native & southern style government systems
	2182			R. Sinotte	Citizen	Committee of federal & territorial governments studying local industry participation in pipeline
	2194			J. Ross	Citizen	Benefits to natives
C-22	2227-30			C. Pearson	Chamber of Commerce	Role of government in pipeline planning
	2238			A. Wright	Citizen	Help in expediting pipeline
	2250-53			T. Nairn	Citizen	Responsibility for fire prevention along pipeline sites
	2260-63			R. McRobb	Citizen	Control of labour agreements - pipeline
	2275-80	Aug. 11	WH	V.Jutronica	Citizen	Decisions re Dempster, Skagway & hydrodams
C-23	2321-24	Aug. 14		Berger		Guidelines re oil pipeline
	2335-41			R. McCandless	Citizen	Energy treaty negotiations with U.S.A.; leasing policies
	2338-41			R. McCandless	Citizen	Mineral & petroleum leasing policies
	2343-50			I. Warner	Citizen	Mineral policy; abuses in the north
	2349-50			I. Warner		NCPD - proposals for dam sites
	2359-60			Berger		Policy towards the Inquiry
	2370-71			Berger		Empowered to accept or reject pipeline
	2374			R. Genelli	Citizen	N.C.P.C. hearings into dams
62	8932-34	Sept. 16	YK	Scrimmes	Foothills	CBC; services
	8963-65			Scrimmes		Rate structures as set by Department of Communications; tariffs
68	10197	Sept. 24		Templeton	EPB	Interdepartmental agency set up to regulate pipeline
	10213			Templeton		Regulatory powers
	10221-22			Templeton		Reporting structure of regulatory agency
70	10526	Sept. 26		Owen	MVPI	Other government departments involvement
	10534-38			Goudge	MVPI	Statement giving direction to civil servants appearing before the Berger Inquiry
71	10639	Oct. 14		Bayly	COPE/ITC	Construction operations and issuing of permits covered by other government departments
	10650-52			Bayly Longlitz	MVPI	Prosecution of permittees; permittees being government departments or Crown Corporations; Fisheries Act. section 33
	10667-70			Bayly Longlitz		Land use permits; consultation from other governmental departments
73	10894-98	Oct. 16		Slusarchuk	CAGPL	Frost heave research by Drs. Penner and Gold of the National Research Council of Canada;

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80	11863	Nov. 4	YK	Hemstock	CAGPL	Government suggestion to reroute at Fort Simpson	
82	12290-91	Nov. 6		Berger		Debate re: Miller report - involving Dept. of Justice	
	12292-93			Dabbs	CAGPL	Standards set down re: revegetation by Canada, Dept. of Agriculture	
83	12408-13	Nov. 7		Scott Minning	MVPI CAGPL	Borrow site development criteria	
85	12696-12700	Nov. 12		Bayly Hemstock	COPE/ITC	NCPC Great Bear hydro dam	
86	12971	Nov. 13		Bayly		Sewage equipment, bulk buying, applicant and communities	
	12987			Lawrence	Foothills	Camp Takhini, Whitehorse, sewage disposal	
87	13089	Nov. 14		Reeves	Foothills	Consultation re significant archaeological finds	
88	13276-77	Nov. 17		Berger		Government guidelines re Inquiry	
90	13646	Nov. 19		Hemstock		Licensing winter road building to Inuvik	
	13687			Hemstock		Permits needed to harvest trees for construction	
	13702			Dabbs		Dept. of Agriculture, test site in Inuvik, vegetation	
91	13788	Nov. 20		Berger		Will make recommendations to government	
	13937			McCart		Agreement with CAGPL to divide up study areas	
94	14318-20	Dec. 2		Berger		Eventual decision by the Government of Canada - impacts, route, etc.	
96	14667	Dec. 4		Hemstock		Government responsibility to do needed research, utilization of tax monies	
98	14994-15006	Dec. 8		Scott Marshall Berger	CAGPL	Game management programme needed, regulation of road building, pipeline area	
99	15099	Dec. 9		Scott	MVPI	Archaeological salvage operations and sequences, Cinquars proposal, adopted by provinces	
	15103-04			Scott Hemstock		Archaeological role for Museum of Man	
	15147-77			Environ. Panel	Foothills	Bodies regulating construction of pipeline	
101	15403-05	Dec. 11		Scott		Zoltai, employed by Federal government, but giving evidence for CARC on personal basis; Peterson not giving evidence re: Environmental-Social Program	
102	15655-56	Dec. 12		Novakowski	CARC	Canada Customs do not check exports, hard to regulate export of endangered species; trade regulated by Export and Import Permits Act of Dept. of Industry Trade and Commerce	
104	15943	Dec. 16		Steigenberger	CARC	Use of Archives as a data source re: historical exploitation of fish resource in Northern Yukon	
107	16317-39	Jan. 12		Wilimovsky Templeton Craik	EPB EPB EPB	Mackenzie Valley Pipeline Authority; government responsibilities re: research, environmental protection and assessment; coordination of all laws and acts	
	16377-78			Templeton		Government intervention with a pipeline authority	
108	16570	Jan. 12		Bergen		Federal Government has established National Parks	
109	16595	Jan. 14		Wilimovsky		Funding of an environmental auditor body	
	16709			Wilimovsky		Government funding, personnel re: inventory of fish stocks	
110	16770	Jan. 15		Bergerud	CARC	Government take responsibility for the Porcupine herd; create a refuge, join onto the Arctic National Wildlife Range	
	16829-30			Bergerud Calef	CARC	Federal government and Alaskan government, joint management of the Porcupine Herd	
	16863-64			Bergerud Calef		Management of the Porcupine Herd by the Federal Government versus the Yukon Territorial government	
111	16969-75	Jan. 16		Davies	MVPI	Environmental impact assessment process; differences from Ontario system; assessment report, impact statement	
C-24	2437-38	Aug. 23	NB	H. Deneron	Citizen	Consultation by government nil when boundary lines of the Park were being drawn up	
	2453			Father Mary	Citizen	Those working for Federal Government get advantages e.g. housing, facilities not available to the native community	
	2461-65			Nahanni	NWT IB/MA	Lack of concern for Dene peoples needs re: housing repairs, jobs, land uses	

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C-25	2507-08	Sept. 8	FS	Black	Citizen	Establishment of operational procedures between local/Federal Governments
	2516-17			Berger Workman	MVPI CAGPL	Pipeline guidelines, application re: second pipeline
C-26	2700	Sept. 9		Lamothe	Citizen	Institution of residential schools re: Bishop Grandez
C-27	2746-47	Sept. 10		Erion	Citizen	Financing of project by subsidizing the cost of line
	2751			Erion		Canadian government re: subsidization
	2767			Workman		Settlement re: land claims
	2775			Grnow	Citizen	Grants re: finances for programs
C-28	2780	Sept. 10	Wr	H. Hardisty	Citizen	Disputes with Wrigley re: Cominco and land use permit, Mackenzie Highway, New Town move and education
	2801			G. Hardisty	Citizen	Frustration of government meetings with natives
	2810			Sale	Citizen	Old age pension re: payment of bills and food
	2819			P. Moses	Citizen	Old age pension re: payment of light bills
C-29	2863-68	Sept. 12	JMR	Kazon	Citizen	Impact of development, concerns re: land settlement, native input, non-renewable resources, environmental danger, economy
	2870-71			Kazon		Bennett's Dam in B.C. re: no benefit to people
C-30	2890-91	Oct. 6	PP	Osing	Citizen	Home ownership
	2922-31			Berger McConnell	MVPI Citizen	Inquiries for further pipeline construction; energy, transportation corridor concept
	2951-53			Chalmers Carter	Citizen CAGPL	Pipeline nationalization; government subsidy of fuel supplies
	2956			Bolmer	Citizen	Pipeline construction decision - timing
	2961-63			Berger		Inquiry, NEB reports re: pipeline decision
	2968-71			Berger		Effort to hear views of northerners
C-31	2995-96	Oct. 7	FR	M. Beaulieu	Citizen	Recognition of Dene land ownership
C-32	3041-49	Oct. 8		Slavic	Citizen	Indian Association of Alberta request for native townsite at Syncrude Tar Sands, funding, training programs; native development company, funding; frustration of natives to participate in development
	3067-69			McConnell		Construction of Canadian Pacific Railroad, Dene land crossed; passenger service for Dene on railroad
C-33	3103	Oct. 9	FS	Evans	Citizen	Monitoring committee re: contractors
	3158-59			Mercredi	Citizen	War Measures Act; government development of north
	3160			Mercredi		Minister of Indian Affairs and Secretary of State re: funding of native organizations to inform people, failure of native organizations to represent or write native peoples
	3187			Applewhite	Citizen	Development at Coal Harbour, Fort Chimo, Fort Churchill, Frobisher Bay, Sudluk, Great Well River, Pine Point, Yellowknife Mines, Tulson Dam
C-34	3306-07	Oct. 15	YK	Aylogt Berger	Citizen	Treaty with American government re: use of gas and safe passage of gas within countries; whose natural resources if N.W.T. became a province?
C-35	3402	Oct. 22	LI	Wheeler	Citizen	Natives' desire to hear Federal plans for handling social problems
	3421-22			O'Connor	Citizen	Northern business men - ability to obtain federal contracts
	3434-35			Naylor	Citizen	Research policy re: alternate energy forms
C-36	3477	Jan. 28	In.	Stewart	Citizen	Functioning debt in NWT, Yukon
	3480-82			Kryne	Citizen	Community development input
	3487			B. Allen	Citizen	Regional Planning Committee - re: community planning
C-37	3583	Feb. 10		Berger		Distribution of income from gas royalties
	3589-90			Usher	Citizen	Control, pace, direction of northern development

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C-38	3632	Feb.12	IN	Berger		Decisions on pipeline construction
	3641-44			Burrell	Foothills	Responsibilities re land claims settlement
	3646-47			Berger		Applicant tax payments to Government re gas revenue from United States
	3650-51			Rowe Burrell	CAGPL	Resource ownership and royalty payment
C-39	3707-09	Feb.18		Robertson	Citizen	Recommendation that Solicitor General's Department or Department of Social Development put Half-way House in Inuvik; government funds for Impact Centre; co-ordination of government spending
	3717			Hill	Citizen	Guidelines for environmental protection, pollution control, Canadian participation and employment of northern residents
	3719			Hill		Government spending on north
	3729-30			Hill		Federal Government northern air policy
113	17147-49	Jan.21		Hobart	GPC-D	Introduction of programs in north
	17162-66			Hobart		Civil servant attitudes to natives; importance of some programs to natives; native dependence on welfare, 1960's Delta area
	17176			Hobart		Getting involved in education in NWT
	17206			Berger		Rise in White population in north due to more government activity
	17240-42			Hobart		Native dependence on government programs destructive
114	17326	Jan.22		Bayly Mainland	COPE/ITC GPC-D-I	Taglu gas field, possibility of tapping gas if government required facilities to be outside present area to be used
115	17507-08	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, application for land tenure agreement
116	17611	Jan.24		Scott	GPC-D-G	Cost responsibility for dredging Liverpool Bay or Husky Lakes
	17630			Scott Bayly	COPE/ITC	Decision to build tapping plant, role of government
	17657			Rempel	GPC-D-I	Inspection of Delta Environmental Protection Unit equipment
117	17901	Jan.26		Bayly Sider Wopnford	GPC-D-G GPC-D-S	Definition of a "northerner"
	17906			Berger Bayly		Employment of natives, unsuccessful
118	17997	Jan.27		Czaja	GPC-D-S	N.T.C.L. discussions with government, barge requirements
	18009			Bayly Horsfield	GPC-D-I	Seismic maps prepared by Longlitz of Federal Government
119	18241	Jan.28		Pimlott	COPE	Department of Energy, Mines and Resources, system tested before used in Arctic
120	18285-87	Jan.29		Pimlott		Exploratory development drilling, responsibility of industry or government
121	18458	Feb.10		Barry	COPE/ITC	Financing of Taglu oil well environmental impact study
122	18521	Feb.11		Berger		Pipeline guidelines related to whale reserve proposal
123	18795-96	Feb.12		Elkin	MVPI	Initiative for regional assessment process
127	19448	Feb.17		Trudeau	COPE	Department of Fisheries, involvement with commercial fishing
135	204117-18	Mar.25	YK	Berger		Failure of government to consult with local people, evidence heard in communities
	20584-86			Sprague	MVPI	Process of laying down water quality regulations; government inspection procedures

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	20663-64			Sprague		Government responsibility to set down specific water regulations
143	21766-67	Apr. 14		Manuel	N.I.B.	Representation of PEI in federal parliament; government incentives for the province; comparison to native status
	21810-14			Fumoleau	NWT IB/MA	1870 - Canadian government received control of land in the Northwest that was formerly under Hudson's Bay Co.; early Indian policies
	21831-35			Fumoleau		Question of federal or territorial jurisdiction over game management; investigation of conditions in Mackenzie District, 1928; big game hunting permits
143-A	21852-67	Apr. 14		Russell	NWT IB/MA	Negotiations with native people over devolution of decision making powers; continuing debate over land ownership, NWT; negotiations for land claim settlement; possible conflict between Dene Declaration and future provincial government for NWT
144	21921	Apr. 15		Sanders	NWT IB/MA	Jurisdiction over Indians and lands reserved for the Indians; response to demands of Riel's provisional government, 1870; half breed grants in Manitoba and the Northwest Territories before 1905
	21936-40			Sanders		Role in resolution of Metis land claims in Manitoba
	21944-45			Sanders		Question of ownership of reserve land; federal jurisdiction over Indian lands
	21947			Sanders		Question of veto power over disposition of lands
	21954-58			Sanders		Question of transferability, recognition and conversion of native title; reserve lands
	22015-16			Kurszewski	NWT IB/MA	Government should recognize native right to own political institutions
	22029-30			Bean	NWT IB/MA	Government participation in local councils
145	22106-13	Apr. 26		Brownstone	NWT IB/MA	Oxfam supporting NWT IB work which government refused to support; government policy on northern native people
	22138-40			Clarke	NWT IB/MA	Involvement in colonial patterns of resource development; promotion of Canadian based corporations investing in the Amazon basin
	22154-59			Clarke Draimin	NWT IB/MA	Government guarantees on pipeline completion
	22220-21			Berger		Possibility of government guarantee to cover any borrowings of CAGPL or Foothills needed to complete the pipeline
146	22239-40	Apr. 27		McCullum	NWT IB/MA	Federal money, supplying services for development of natural resources, northwestern British Columbia; funding partially provided by the Department of Regional and Economic Expansion
	22253-54			McCullum	NWT IB/MA	Commitment to a policy of extinguishing aboriginal title, James Bay
	22261-62			McCullum		Assurances from project proponents that government will deal with problems coming with development
	22281-82			Richardson	NWT IB/MA	Encouraged negotiations between Quebec government and native people, James Bay
	22318			Young	NWT IB/MA	Studies done by Federal-Provincial Study Board on Manitoba Hydro Project
	22327-47			Page	NWT IB/MA	Role in the building of the C.P.R.; response to Riel Rebellion
147	22354-57	Apr. 28		Page		Transfer of sovereignty of Northwest to Canada, 1870; Metis land claims
	22369-70			Page		Possible government guarantee of pipeline project
	22381-85			Jones	NWT IB/MA	Opinion on government participation, fish cannery at Port Edward, B.C.
	22390-95			McCullum		Witness opinion on the role of the MVPI
	22417-418			McCullum		Band councils emanating from the Federal government, Quebec concern over new municipal structures fitting in to provincial control
	22492			Nahanni	NWT IB/MA	Government restricted by private economic powers

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148	22698-700	Apr. 29	YK	Asch	NWT IB/MA	Despite governmental intervention in the economic and social life, continued reliance on traditional lifestyles, creating a dual economy
	22709-10			Asch		Problems created from government insensitivity, unkept promises
149	22808	May 3		Simpson	NWT IB/MA	International Development Research Center, federally funded agency
	22816			Simpson	NWT IB/MA	Government should recognize parallels of problems existing in Third World Countries
150	22881	May 4		Hills	NWT IB/MA	Jurisdiction over Indians, Inuit
	22888-90			Hills		Comparison with government of Brazil
	22979			Berger		Inuit land claims proposal made to Cabinet
	23005-06			Berger		Pipeline guidelines policy on native employment
	23025-32			Bean	NWT IB/MA	Cabinet, decisions by consensus
151	23125-26	May 5		Cruikshank	CYI	Discussion of International Highway in House of Commons
	23162			Jacquot	CYI	Funding for Yukon Association of Non-status Indians by Secretary of State
	23169-71			Smith	CYI	Problems with control of multinational corporations
	23189-94			Lueck	CYI	Negotiations with CYI for land claims settlement; not for public discussion
153	23409	May 7		Sharp	CYI	Federal Government and Anvil Mine signed agreement re native employment
	23414			Sharp		Roads to Resources Program, aiding development of Anvil Mine
C-40	3863-67	Feb. 23	AK	Greenland	Citizen	Delta Regional Planning Committee formed with Territorial government, pressure on native people; Gas-Water Advisory Committee, lack of native input; government playing games with natives
C-41	3975-76	Mar. 3	H OL	A. Goose	Citizen	Government acts without consulting natives; Arctic Waters Oil and Gas Committee, no native representative
C-44	4256-57	Mar. 9	TUK	Gruben	Citizen	Criticism of government spending, monitors lacking
C-45	4356-57	Mar. 10		Nasogaluak	Citizen	Misunderstanding between people, oil companies and government re importance of hunting geese in Tuk
C-47	4597-601	Mar. 13	ARR	A. Andre	Citizen	"Consulted" natives in foreign language; developed and controlled land; government planning, lack of thought
	4650-53			B. Natsie Berger	Citizen	Critical of government spending, pipeline decision is planned, will go through; Berger's comments on role of government
C-48	4755-58	Apr. 30	FS	Berger M. Beaulieu	Citizen	Drilling in Beaufort Sea, role of government and Inquiry
C-49	4775	May 10	VAN	Maultsaid	Citizen	Federal Government should wait for final report from Berger before any approval of the pipeline
	4840-50			Lewis	Citizen	Presenting report to Government; CBC financing coverage of Inquiry; government created Inquiry
C-50	4894-95	May 11		Stace-Smith	Citizen	Permission given to Dome Petroleum for offshore drilling, Beaufort Sea
C-51	5116-18	May 12		Berger		Establishment of Inquiry; funding for participants
	5139-43			J. Wight	Citizen	Role in protecting native rights; treaties 8 and 11 have not been honoured
C-53	5477-79	May 14	CAL	Cudby	Citizen	Indians thought government would look after their interests after Hudson's Bay sold the land
	5513-15			Carter	Citizen	Government not seen as helping the native cause
	5559-60			Small Legs	Citizen	Government failing native people
C-54	5584	May 17	EDM	Cavanagh	Citizen	Government should provide assistance to fast growth areas
	5727-32			Robertson	Citizen	One federal agency should be created to administer impact, regulations and supervision of pipeline

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C-55	5860	May18	EDM	J.McDougall	Citizen	Pipeline will provide tax revenues
	5887			H. Cardinal	Citizen	White Paper on Indian Affairs; discussions to help ensure native participation, Athabasca tar sands development; proposed Treaty Indian Training Corporation
	5962			K. Vandergrift	Citizen	Need for formulation, national energy policy
C-57	6263-64	May20	WINN	B. Teixeira	Citizen	Jurisdiction limits of Federal and Provincial Governments in Manitoba conflicts
C-58	6351-54	May25	TOR	Berger	Citizen	Establishment of Inquiry, mandate; studies of Mackenzie Valley; funding of Inquiry; decision - making process
154	23607-13	June29	YK	Watkins	NWT IB/MA	Pro-development policies; decision to proceed with pipeline before settlement
155-A	23839-42	June30		Jelliss	NWT IB/MA	Mining projects, NWT, payment of royalties through taxation, Norman Wells
	23854-60			Jelliss		Inadequacy of existing Federal Government rent collection, should be channeled to native economy
	23896-98			Jelliss		Monies spent by government in north
156	23910-11	July 1		Gillie	NWT IB/MA	Awakening of interest in far north, native people unprepared
	23945			Kakfusi	NWT IB/MA	Government seen as taking children away from family for education
	23958-60			Yazzie	NWT IB/MA	Transfer of educational jurisdiction from Federal Government to Territorial without Dene consultation
C-59	6415	May 26	TOR	N. Zlotkin	Citizen	Mercury Contamination, Northern Ontario, no response to native demands for compensation
	6577			L. Little Bear	Citizen	Jurisdiction over Indians, lands reserved for Indians
	6590-92			G. Akla	Citizen	Federal Energy Conservation Campaign; need for formal recognition, native land claims
C-60	6678-79	May 27		E. Welsh	Citizen	CAGPL request, assistance in financing
	6717-19			D. MacKenzie	Citizen	Tax write-offs, exploration costs; northern development and national sovereignty
	6763-65			S. Fox	Citizen	Decision to allow drilling, Beaufort Sea; statement of Buchanan re Dene Declaration
	6784-85			H. Mitchell	Citizen	Production of documents for Inquiry; drilling decision, Beaufort Sea
C-62	6887	May 31	MTL	Poirier	Citizen	Little spent on research by government as compared to Foothills
	6915-18			Delisle	Citizen	Inquiry conducted to ease Federal Government conscience
	6941-46			Ponting	Citizen	Public opinion of government role in protecting environment
C-63	6979	June 1		Morrisette	Citizen	Government should be happy that pipeline project has provoked Dene nation to unite
	7025			Mountjoy	Citizen	Recommend campaign on energy conservation, formulate clear energy policy
	7107-09			Innocenti	Citizen	Government should deal with the social welfare problems before aiding business concerned with profits
	7142-47			Langston	Citizen	Should be aware of faults discovered in Alyeska pipeline; should improve energy policy
	7185			Paulette	NWT IB/MA	Not the government of Dene
C-64	7360-64	June 3	OTT	Pimlott	CARC	Need to set up environmental policy
C-65	7493-94	June 4		B. Shead	Citizen	Number of native people employed by government, few
C-66	7636	June 7	CH	J. Butler	Citizen	PEI, development program, effect on economy
C-67	7724	June 8	HAL	P. Keddy	Citizen	Lack of concern for native rights and northern environment, abdication of responsibility

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157	24070-72	July 5	YK	Hobart	CAGPL	Partnership developmental approach between northern natives and white government
159	24354-56	July 7		Trusty	CAGPL	High level of participation, any activity in NWT; subsidization by affluent parts of Canada; need for planned growth; control of land; major initiator, customer for housing
	24614-19			Trusty		Comparison with control in Alaskan situation
167	25900	July 21		Usher	COPE/ITC	Filled breach left by failure of free market economy
	25940-52			Beakhust	COPE/ITC	History of responsibility for, financing of, government in the territories; establishment as a federal constituency; transfer of responsibility from federal to territorial government
	25968-70			Beakhust		NWT; one seat in House of Commons
C-70	7963-64	Aug. 9	RE	A. Charlo	Citizen	Broken promises, distrustful of government
C-71	8017	Aug. 10		C. Football	Citizen	Snare Hydro, employment of native people
	8028			P. Tlokka	Citizen	Supports NWT people with Old Age Pension, Family Allowance, Welfare
	8031-33			P. Tlokka		Caribou will not cross Snare Hydro line, effect on hunting; promises made by N.C.P.C. regarding Snare Hydro broken
	8053			P. Dryneck	Citizen	Hunting not good around Snare Hydro plant
C-72	8107-09	Aug. 11		E. Rabesca	Citizen	Broken promises with natives; laws made to accommodate white people i.e. game laws
C-74	8299	Aug. 13	RL	P. Zoe	Citizen	Should listen to natives
C-75	8322-24	Aug. 21	CL	D. Tabac	Citizen	Feels they have already made decision about pipeline, doubts if any aid provided after project
C-76	8358-60	Aug. 26	DET	Chief Charlo	Citizen	Expenditures on pipeline; alternatives, treaty
175	27252-53	Aug 23	YK	Ashton	NWT/CC	N.C.P.C.'s restriction of private enterprise expansion.
179	27735-39	Aut 27		Runge	MVPI	Programs for housing in NWT, financial aid given
	27742-44			Runge		National Housing Act, subsidies
	27752			Runge		Maximums set on capital for public housing by Central Mortgage and Housing Corporation
	27272-73			Runge		Home ownership, assistance plans
	27783-86			Runge		Involvement of Central Mortgage and Housing Corporation in funding and planning in NWT
	27804-06			Runge		Housing, standards of construction, units built by NWT Housing Corporation do not meet Central Mortgage and Housing Corporation standards
	27810-12			Runge		Central Mortgage and Housing Corporation, special subsidy programs for NWT
180	27839-40	Sept 7		Hodson	MVPI	Canada Manpower Adult Training Program, lack of funds to finance training programs, discontinued
181	28118-19	Sept 8		Reimer	MVPI	Need for energy policy, pipeline decision affect future of whole country
	28125			Reimer		Need for economic planning
	28153-56			Bayly Reimer	COPE/ITC	Should adopt economic policies to mitigate instabilities in north, price controls, taxation
	28158-59			Reimer		Government should intervene in northern economy
	28195-96			McRae	MVPI	Problems of present labour relations legislation and jurisdiction of government
182	28295	Sept 9		Forth	MHA/NWT	Delivery of mental health services to NWT, responsibility of Department of National Health and Welfare, Community health policies formulated by Federal Government
	28316-17			Forth		Transfer of mental health services from Federal to Territorial Government brings services closer to people
	28367-68			Clarke	COPE /ITC	Staff housing in NWT
184	28505-07	Sept 14		Kehoe	COPE/ITC	Provision and financing of health services
	28525-26			Atcheson	COPE/ITC	Should settle land claims; natives should distrust
	28532-34			Kehoe		Should sponsor permanent commission; shares in pipeline

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186	28948-49	Sept 16	YK	Snowden	COPE/ITC	Western Northland's program of DREE
189	29351-52	Sept 22		Berger Hill Sigler Scott	NWT/AM NWT/AM MVPI	Residency requirement to vote in a Federal election
	29386			Robertson	NWT/AM	Lack of funding for approved funding programs of Territorial government
	29414-17			Scott Smith	NWT/AM	Grants in lieu of taxes, those exempted under Federal Grant Statute; Northern Canada Power Commission's taxation yield to Inuvik a year
190	29579			Ganske	NWT/AM	Mackenzie Highway Program, Environmental - Social Program, requests for special funding for planning program
193	30206-26	Oct 5		Templeton	EPB	Should undertake initial land use plan, corridor concept and land freeze approach
198	31304-09 31374-75A	Oct. 14		Forth Sterling Forth	MVPI MVPI	Northern Careers program Target objective for numbers of native people employed by federal government in North; federal positions now occupied by native people
201	31861-62	Nov. 16		MacQuarrie	MHA/NWT	Transfer of NWT health service responsibilities of Health and Welfare Canada to NWT Government
202	32031-34	Nov. 17		Anthony	CARC	Carrothers Commission - recommendations, development of government in NWT; closing of ranks by government and industry

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77	11411 11418	Oct. 22	YK	Rutter Rutter	CARC	Study of peat plateaus; Wrigley area Research re east of Franklins route, terrain analysis; Department of Agriculture in Winnipeg; mapping terrain units given a set of conditions i.e. latitude, climate drainage etc. variables
82	12292-93	Nov. 6		Dabbs	CAGPL	Standards set down re revegetation by Department of Agriculture
86	12971 12987	Nov. 13		Bayly Lawrence	COPE/ITC Foothills	Sewage equipment, bulk buying, applicant and communities Camp Takhini, Whitehorse, sewage disposal
87	13089	Nov. 14		Reeves	Foothills	Consultation re significant archaeological finds
89	13569-70	Nov. 18		Dabbs		Seed testing, licensing

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XXIX	3617	Apr. 14	YK	Clark	CAGPL	Terrain typing GSC surficial geology work
42	5551	May 21		Horte	CAGPL	Reserves estimated by G.S.C.
44	5757	May 23		Genest	CAGPL	Regulations put out by the department, environmental considerations
52	7038	Aug. 12	WH	Templeton	EPB	Involvement of G.S.C. in Department of Interior environmental impact study of Mackenzie Valley
55	7606-08 7630	Aug. 15		Hughes Morlan	CARC CARC	Studies and research completed under the Environmental Social Program Geological Survey of Canada support of Yukon Refugium Project re: archaeological research
68	10196	Sept. 24		Templeton		Interest in becoming regulatory agency over pipeline
72	10771-72	Oct. 15		Lewis	MVPI	Reports, studies; terrain information re: Blow and Malcolm Rivers
76	11309	Oct. 21		Hughes	CARC	Geological Survey work, re: soil analysis, drilling, ice content soils
77	11349 11387-93 11402-03 11416	Oct. 22		Rutter Rutter Rutter Rutter	CARC	Environmental Social Program study, Geological Survey of Canada Geological Survey of Canada re: research and mapping of terrain in the area east of the Franklins route Geological Survey of Canada, open file report, maps Air photos and maps available at Geological Survey of Canada

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77	11418	Oct. 22	YK	Rutter	CARC	Geological Survey of Canada; air photo interpretation, staff and researchers; reports, and mapping
	11440-41			Rutter		Geological Survey of Canada; drill hole data; subsurface data
78	11518	Oct. 23		Roed	CARC	Department of Mines and Technical Surveys; pieometric surveys of Great Bear and Great Slave Lakes
80	11850	Nov. 4	YK	Hemstock	CAGPL	Geological Survey reports re terrain
101	15411-12	Dec. 11		Peterson	CARC	EMR input into E-S Program
	15422-23			Peterson		EMR input into 1972 Pipeline Guidelines
102	15652-53	Dec. 12		Novakowski	CARC	IBP Sites committee, some members chosen from EMR
C-24	2447-48	Aug. 23	NB	Berger H. Deneron	Citizen	Camp set up by Geology Survey re: land use permit application for a piece of land called Blue Fish Creek
C-30	2888-89	Oct. 6	PP	Osing	Citizen	Geological survey re: deposits; railway construction into Pine Point
145	22141	Apr. 26	YK	Clarke	NWT IB/MA	Geological Survey study being done in Brazil
C-52	5261-62	May 13	CAL	A.D. Brown	Citizen	Publication, "An Energy Strategy for Canada" 1973, energy policy for self, sufficiency
	5321-22			R. Potts	Citizen	
C-63	7028-34	June 1	MTL	Ford	Citizen	Extracts from "An Energy Policy for Canada"
181	28132-33	Sept. 8	YK	Reimer	MVPI	Need for energy policies

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XVI	1745	Mar. 12	YK	Genest	CAGPL	Filing of Application, 42" pipe
XXI	2517-26	Mar. 19		Mercredi	Citizen	Priorities - "People first", need for research of natural resources
XXV	3008	Apr. 8		Scott	MVPI	Pointed Mountain report-reparation of erosion
XXXV	4649	Apr. 23		Washee	NWT IB/MA	Budget for participation in Inquiry
XXXVI	4659-63	May 12		Lucas	CARC	Funding of public interest groups
	4669			Bell	NWT IB/MA	Buchanan - telex re: additional funds
XXXVII	4701	May 13		Scott		Budget of pipeline inquiry
XXXVIII	4871-74	May 14		Lucas		Regulatory approvals, ROW
	4929			Lucas		Right-of-way permit
XXXIX	5063	May 15		Lucas		Responsible for oil spill contingencies
42	5551	May 21		Genest		Application to the Minister
	5571			Genest		New application for additional ROW, looping
44	5739-43	May 23		Bell		Northwest Lands and Forest Services
45	5907-09	May 24		Bayly	COPE/ITC	Guidelines and gas supply to communities in the Mackenzie Valley
46	6036-37	June 2		Templeton	EPB	Social responsibility
48	6322-25	June 4		Craik	EPB	Violation of Land Use Regulations; Northern administration - potential conflict of interest
	6367-71			Craik		Administration of environmental matters
	6433-36			Templeton		Chretien's speech 1974; land use planning
C-4	212	May 28	Hay River	D. Dean	Citizen	Resource extraction subsidized by people of the north
C-5	356	May 29		E. Dean	Citizen	Pays taxes of some municipalities
C-8	687	June 25	F.F.	Denis	Citizen	Importance, priorities
C-11	985-89	July 8	F. McP.	Berger		Letter received from Minister Buchanan, Foothills Application referred to the Inquiry
C-13	1247	July 10		J. Martin	Citizen	No support for land claims
C-16	1528	July 13	O.C.	H. Netro	Citizen	Only supplies help with housing
C-17	1756-58	July 17	F.L.	B. Mewikosh	Citizen	"Social, Economic Impact of the Painted Mountain Gas Field", Michael Scott, 1973, p. 37
56	7837	Aug. 18	YK	Horte	CAGPL	Consultation as to Parks Canada plans for national parks, national landmarks; national historic waterways
57	8005-06	Aug. 19		Blair	Foothills	Need to hear Foothills submissions with CAGPL submissions

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58	8154-55	Aug. 20	YK	Blair	Foothills	Foothills application for a pipeline
59	8329-31	Aug. 21		Scott	MVPI	Reports prepared by D.O.E. are forwarded to DIAND; Foothills Exhibit #222 to be sent to DIAND
51	6747	Aug. 11	WH	Berger		Application of the gas companies to the Minister of DIAND for a right-of-way
52	6902-07	Aug. 12		Dau	CAGPL	ACND projections re an oil pipeline
	6954-56			Hemstock	CAGPL	Communication re routing with CAGPL
53	7184	Aug. 13		Joe	CYI	Communication between Chretien, Buchanan and Old Crow
	7189-90			Joe		Report on social impact of mine - Ross River; insensitivity of social programs
	7249-58			Wah-Shee	NWT IB/MA	Land claims and alternate routes
	7273-77			Thompson	CARC	Letter from D. Hunt re Wildlife Range in Yukon
54	7434-35	Aug. 12		Geizt	CARC	Support by Minister of DIAND re: proposed IBP sites; committees set-up
	7434-35	Aug. 14		Geist	CARC	Support by Minister of DIAND re: proposed IBP sites; committees set-up
C-20	1909	Aug. 7	FGH	Blair	Foothills	Time involved before decision made re gas pipeline
C-21	2138	Aug. 9	NW	C. Towrangea	Citizen	Effects of treaties
C-23	2367	Aug. 14	WH	A. Cuvret	Citizen	Inquiry's terms of reference limited
63	9071-73	Sept. 17	YK	Berger		CAGPL evidence on Cross-Delta route charge submitted by DIAND to Berger for appraisal
65	9506	Sept. 19		Berger		Permit for right-of-way to be granted by Minister
68	10194	Sept. 24		Bayly	COPE/ITC	Channel for communities to lodge complaints re pipeline apart from DIAND
	10209			Templeton	EPB	Permit required for pipeline north of 60° issued by DIAND
69	10445-53	Sept. 25		Owen	MVPI	Land use regulations - Owen's involvement
	10456-60			Owen		Land use permits; indenture agreement with Westcoast Transmission re: Pointed Mountain; reports; rehabilitation of right-of-way
	10486-87			Owen		Reports by Owen to be published by DIAND re: Pointed Mt.
70	10503A-05	Sept. 26		Owen		Job terms of reference; Westcoast co-operation
	10508-16			Owen		Enforcement of land use permits; Pointed Mountain Line; R.M.O. officer at Fort Liard
	10516			Owen		Opening up of borrow pits re: stump burial
	10522			Owen		Prediction as to effect of a hot gas pipeline through permafrost
	10524-25			Owen		Removal of gravel; responsibilities of officials; land use permits; Westcoast
	10535-38			Goudge	MVPI	Statement prepared by DIAND concerning the testimony given by civil servants to the Berger Inquiry
71	10601-611	Oct. 14		Templeton		Inspection tours re: use of snow roads and ice bridges
	10616-88			Bayly Longlitz	COPE/ITC MVPI	Inspection of construction projects; land use regulations re: enforcement and authorization; consultation and communication with other departments and communities; prosecution of permittees; default of the permittee; legislation and regulations involved in the land use regulations; enforcement and inspection; workings of the body which enforces land use permits
72	10692-711	Oct. 15		Bayly Longlitz		Land use regulations; hiring and training programs provided
77	11370	Oct. 22		Berger		Filing application re: alternative route proposals; no consideration to east of Franklins
80	11850-52	Nov. 4		Hemstock	CAGPL	Consultation with Parks Canada re: terrain sensitivity

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80	11874-79	Nov. 4	YK	Minning	CAGPL	Consultation re: granular sources, guidelines for developing sites, location of sites
	11891			Minning		CAGPL to comply with DIAND regulations re: borrow
81	12020	Nov. 5		Minning		Development plans for borrow sites to be submitted to DIAND
	12026			Minning		Volumes and grades of material required by CAGPL to be submitted to DIAND
	12040			Minning Clark	CAGPL	DIAND granular inventory phased in community and general needs
	12054			Minning		Estimates of borrow requirements submitted to DIAND
82	12157-62	Nov. 6		Scott	MVPI	Debate re: release of report by George W. Miller in Ross River "The Economic Acculturation of an Indian Band" prepared as a in-department paper for DIAND
83	12361	Nov. 7		Scott Minning	MVPI CAGPL	CAGPL concentrates on DIAND classification of granular material grades
	12377			Scott Minning		DIAND classification of gravel
85	12696-12700	Nov. 12		Bayly Hemstock	COPE/ITC CAGPL	Great Bear hydro dam, NCPD
	12729			Scott		Regulations, impact assessment, Mackenzie Highway
86	12891	Nov. 13		Bouckhout	Foothills	Borrow studies based on DIAND inventory
	12914-15			Davison	Foothills	Gravel inventory
87	13061-72	Nov. 14		Bouckhout Davison Drew	Foothills	Granular inventory study
88	13313	Nov. 17		Davison	Foothills	Borrow sources identified by DIAND, Parson's Lake
89	13432	Nov. 18		Gunn	CAGPL	Pipeline guidelines, pipeline can conform ornithologically
90	13662-65	Nov. 19		Banfield Berger	CAGPL	Information on highway impacts unavailable; more attempts
91	13953	Nov. 20		Berger		Obtaining impact reports, Dempster Highway
94	14328-29	Dec. 2		Gunn		Need to examine policies on access; human disturbance
95	14533-39	Dec. 3		Veale Scott	CYI	Miller's report on the Ross River; release by DIAND
101	15409-31	Dec. 11		Peterson	CARC	Joint DIAND/DOE research, Land Use Information Map series; Environmental-Social Program: composition, terms of reference, research programs, recommendations, 1972 Pipeline Guidelines; PAAG; geographic coverage of E-S P reports; Guideline No. 4, avoidance areas; National Landmarks
	15437-38			Peterson		Seven IBP applications submitted to Minister, Sept. 16, 1975
	15509			Peterson		Pipeline guidelines released by DIAND minister
102	15561	Dec. 12		Peterson		Applications for proposed IBP sites, Firth River, Old Crow Flats, would consider pipeline incompatible with intended purpose of sites
	15567			Peterson		IBP site applications required to identify all competing land uses of areas
	15590-97			Peterson		Proposed IBP site applications made to DIAND
	15616-20			Novakowski	CARC	DIAND manages resources other than wildlife
	15652-53			Novakowski		Supplies some members of IBP Sites Committee; discussions of sites to go through M.J. Ruel
	15686-89			Novakowski		Approval process for proposed IBP sites, land withdrawal
104	15942	Dec. 16		Steigenberger	CARC	Data source re: historical domestic fish catch in North Yukon
108	16565	Jan. 13		Templeton	EPB	Parks Canada - selection of a park area
109	16583-89	Jan. 14		Templeton		Intention to do broad land use planning

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C-24	2455	Aug. 23	NB	Father Mary	Citizen	Pressure to move into the settlement, children sent to a boarding school at Fort Simpson
	2455-56			J. Antoine	Citizen	Movement of people into the settlement; housing built; no consulting with the people involved
	2463-65			Nahanni	NWT IB/MA	Land use permits re: Cadillac Mines; Parks Canada; community participation and approval
C-26	2649	Sept. 9	FS	Paullette	Citizen	Indian agents in latter part of 1950's
C-27	2768-69	Sept. 10		Berger		Procedure for oil pipeline re: right-of-way through NWT
C-28	2805-08	Sept. 10	Wr	H. Hardisty J. Antoine	Citizen Citizen	Minister of Indian Affairs radio statement re: Dene nation proposal and declaration; response to statement; land settlement
C-30	2955	Oct. 6	PP	Bolmer	Citizen	Pipeline construction
C-35	3418-19	Oct. 22	LI	O'Connor	Citizen	Development of a viable economic framework in Canada's Northern Territories
114	17335	Jan.22	IN	Mainland	GPC-D-I	Surveys of borrow material in Delta area not undertaken, no budget
	17340-47			Mainland		Has APOA gravel report; Delta producers going through environmental assessment review process; doing test drilling at Yaya esker; letter to DIAND from Imperial re rip rap for for offshore artificial island
	17383			Mainland	GPC-D-I	Working on drilling fluid disposal guidelines with DIAND
	17428-29			Faulkner	GPC-D-S	Niglintgak gas field, DIAND will examine Kumak channel crossing before permit issued; Farewell staging area held on 5 year lease
115	17444	Jan.23		Faulkner		Filing sewage treatment design of Niglintgak facilities with DIAND
	17504			Faulkner		Niglintgak gas field, getting land use permits in time to keep to present schedule
	17521-22			Faulkner		Niglintgak gas field, river crossing design must be approved by DIAND before construction permit issued
	17588			Berger		Parsons Lake construction schedule appears to rely on DIAND approval of pipeline in fall of 1976
116	17617	Jan.24.		Stamberg	GPC-D-G	Application to Northwest Lands and Forests for land use permit
	17646-47			Rempel	GPC-D-I	F.F. Slaney and Company environmental program reviewed with Department of Indian Affairs and Northern Development
	17703			Appleton	GPC-D-G	Acceptable products to transport by barge to Parsons Lake
117	17816	Jan.26		Berger		Their responsibility to consider applications to build gas plants
	17858			Berger		Government policy in the north
	18070			Motyka	GPC-D-G	Letter of intent to DIAND, preferred employment to northerners policy
122	18488	Feb.11		Carter	CAGPL	Filing of amendments to CAGPL application
	18631			Stirling	COPE/ITC	Enforcement of international agreement on polar bear management
123	18735-51	Feb.12		Yates Elkin	MVPI MVPI	Definition of regional planning approach employed in Mackenzie Delta
	18769			Yates		Authorization for drilling in Beaufort Sea
125	19114-18	Feb.14		Pettigrew	COPE/ITC	Role in operational leadership and management of spills
127	19390	Feb.17		Monaghan	COPE	Impact of seismic on wildlife, role of DIAND

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128	19499	Feb.18	IN	Trudeau	COPE	Land Use Act, formation of Land Use Advisory Committee
	19521			Trudeau		Status of recommendation to DIAND
129	19719-21	Feb.19		Inglis		Role of Land Management Section, gravel resources of NWT
135	20417	Mar.25	YK	Berger		Yates of DIAND concedes lack of consultation with natives in northern planning
136	20760	Mar.26		Peet	MVPI	Economic surveys of commercial fisheries
140	21312-55	Apr.8		Usher	COPE/ITC	Summary of DIAND activities during the Banks Island conflict
	21370-88			Usher		Summary - DIAND activities re GPC-D proposal, formation of Mackenzie Delta Gas Assessment Group
143	21816-21	Apr.14		Fumoleau	NWT IB/MA	Negotiations for Treaties 8 and 11; terms established before negotiations began
	21828-34			Fumoleau		Size of education budget; conflict over governmental jurisdictions
144	21928-30	Apr.15		Sanders	NWT IB/MA	Carrothers Commission review of NWT government - little attention paid to DIAND
	21947-48			Sanders		No veto power over disposition of native lands
	21934			Bean	NWT IB/MA	Chiefs originally chosen by DIAND
145	22111-12	Apr.26		Brownstone	NWT IB/MA	Mandate to extinguish the Dene aboriginal title
	22144			Clarke	NWT IB/MA	Conflict of interest - protecting native interests while promoting northern development
146	22234-35	Apr.27		McCullum	NWT IB/MA	Statement by Minister of DIAND on Indian land expropriations, claims
	22245-49			McCullum		Minister responsible for lands reserved for Indians
	22252-55			McCullum		James Bay development, land claims case; extinguishment of all claims, compensation
	22308			Richardson	NWT IB/MA	Possible withdrawal of funding for court cases, native people, James Bay project
	22335			Page	NWT IB/MA	John A. MacDonald, Superintendent - General of Indian Affairs until 1887
147	22467-69	Apr. 28		Young	NWT IB/MA	DIAND and Manitoba government prepared to put claim settlements to arbitration
	22478			Nahanni	NWT IB/MA	Statement by Indian Affairs agent, 1899
	22487			Nahanni		Comment on role and existence of DIAND
	22492-504			Nahanni		Land use and Occupancy Research, data on traditional land use, hunting, trapping
	22521-22			Nahanni		Statement by the Minister regarding Dene preparation for land claims, implied that little had been done
148	22692-94	Apr. 29		Asch	NWT IB/MA	Establishment of New Education Program for N.W.T.
150	22886	May 4		Hills	NWT IB/MA	Officials sent in past years to observe native situation, rights, in Brazil
	22909-11			Simpson	NWT IB/MA	Government official, proposed economic development, Muncey Oneida Reserve, Ontario
	22917			Simpson		Hiring of natives, northerners, possible pre-condition
	23012			Cheezie		Hope to see Dene leaders elected by voting rather than by consensus decision
151	23055	May 5		Irving	CYI	Jacques Cinq-Mars, "Preliminary Archaeological Study of the Mackenzie Corridor," Final Report, 1976 - DIAND land use study
	23102			McClellan	CYI	Quotation from fur supervisor, time of creation of Klwane Game Sanctuary
	23107			McClellan		Supply of family allowance cheques for native people
	23194			Lueck	CYI	Negotiations with CYI for land claims settlement; agreement - in - principle
153	23432	May 7		Sharp	CYI	DIAND established a Chief and Council at Ross River, 1966, not well organized
	23455-57			Sharp		Social changes created by housing provided by DIAND and Territorial government
	23484-86			Sharp		"Employment Clauses in Agreements with Northern Development"

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C-40	3817	Feb.23	AK	Usher	COPE/ITC	Maps of traditional areas of hunting, trapping, fishing; project sponsored by DIAND and ITC
C-47	4631-35	Mar.13	ARR	W. Simon	Citizen	Buchanan on white side; government and natives should settle land claims quickly
C-40	3818	Feb.23	AK	Usher		Construction of Inuvik and DEW Line altered patterns of land use by Inuit
C-44	4179-83	Mar.8	TUK	J. Steen	Citizen	DEW line, major development; impact on natives, employment, adjustment to schedules, living conditions; lack of control from employers; training courses for natives
	4206-08			Schwartz	Citizen	DEW line, impact on Tuktoyaktuk; personal experiences with DEW line
	4238	Mar.9		C. Gruben	Citizen	House moved for DEW line while he was away
C-46	4427-28	Mar.11	PAUL	G. Gruben	Citizen	Working on DEW Line, move back to the land
C-49	4781	May10	VAN	Deroo	Citizen	After negotiating agreement with Dene, DIAND gave out 68 new exploration permits without their consultation
	4794			Gallon	Citizen	DIAND divested of its dual responsibilities
C-50	4887	May11	VAN	Stace-Smith	Citizen	Statement by Buchanan: should prove more significant resources in Beaufort Sea before final decision on pipeline
C-52	5268-69	May13	CAL	Chief Snow	Citizen Citizen	Land claim negotiation, Big Horn Band of Stoneys, Kootenay Plains
	5276-78			Chief Snow		Need for one cabinet minister, solely responsible for Indian Affairs
	5322-23			R. Potts	Citizen	Conflict, dual function
	5403-06			J. Ryan	Citizen	Permit to Dome Petroleum, offshore drilling; total number of employees, Indian Affairs branch
C-53	5425-31	May14		Getty	Citizen	Many Indian people not believing DIAND is acting on their behalf
	5501-07			Tyler	Citizen	Government substitutes for lost land use inadequate
	5540-42			Littlechief	Citizen	Discontent over twin role of DIAND
	5560			Small Legs	Citizen	Attitude of Buchanan towards Dene Declaration
C-54	5689	May17	EDM	Leeson	Citizen	Doubt of Buchanan whether pipeline is in Canada's best interest, due to estimated gas reserves of only 3.9 trillion cubic feet in Mackenzie Valley Delta
C-55	5869-75	May18		L. Mulhall	Citizen	Northern policy statement; quotation from Judd Buchanan, Yellowknife, 1976
	5895-904			H. Cardinal	Citizen	Joint pilot project proposed, Treaty Indian Training Corporation; filing of caveat by Indians of Alberta, claiming areas in Northern Alberta; interim agreement between department and Syncrude Canada; funding for training programs
	5908			A. Moberly	Citizen	Statement by Buchanan about Dene Declaration
	5939-42			B. Farrell	Citizen	Conflict of interest, responsibility for both natives and northern development
C-59	6238-41	May20	WINN	M. Haave	Citizen	Policy of assimilation; pipeline will not be delayed over land claims settlement; natives not consulted
155-A	23850-59	June 30	YK	Jelliss	NWT IB/MA	Study "The Socio-Economic Impact of the Pointed Mountain gas Field" by M. Scott
	23858			Jelliss		"Northern Objectives" as stated by Jean Chretien, 1972
	23865			Jelliss		Using data on development costs of Amoco's exploration in Pointed Mountain area, given by DIAND
156	23910	July 1		Gillie	NWY IB/MA	Native people unprepared for impact caused by development, building of DEW line
C-59	6431-33	May 26	TOR	S. Acheson	Citizen	Buchanan, statements on land claims
C-60	6649-50	May 27		Berger		No application to the Minister, proposed pipeline for Fairbanks route
	6729-31			W. Dunning	Citizen	Natives, wards of department; Hawthorn - Tremblay, recruitment of employees

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C-60	6766	May 27	TOR	H. McLean	Citizen	J. Buchanan, Minister, attempts to create division, Dene and Inuit people
C-62	6918	May 31	MTL	Delisle	Citizen	When native people want to govern themselves, must have permission from government, James Bay
C-63	7030	June 1	MTL	Ford	Citizen	Report done for DIAND, "Draft Report on the Evaluation of the Impact of a Northern Canadian Gas Pipeline", 1972
	7041-42			Ford		Statements by DIAND re pipeline building
	7098-104			Boudries Gardner	Citizen Citizen	Understanding, respecting Dene Declaration
	7186			Paulette	NWT IB/MA	DIAND should give Dene more time to come up with an agreement, proposal
C-64	7263-64	June 3	OTT	Mosquin	Citizen	Government should designate a Canadian Arctic Wildlife Range Under the Yukon Territorial Lands Act, Canada Wildlife Act
	2767-68			Pimlott	CARC	Roles of DIAND, conflicting interests
	7299			Manual	Citizen	More time should be given for land claim settlement
C-67	7761-63	June 8	HAL	M. Bradford	Citizen	Hypocritical attitude towards north
167	25945-51	July 21	YK	Beakhust	COPE/ITC	Creation as separate department, 1953; increase in number of employees in the north
168	26095-98	July 22		Usher	COPE/ITC	Industrial Division, attempts to revitalize traditional economy
C-69	7924-26	July 17	KL	H. Simba	Citizen	Indian agent, attempts to move local people to Fort Providence; provision of materials for housing
C-77	8391-92	Aug. 26	DET	J. Tobie	Citizen	Do not consult Dene, were not invited to meeting with minister
175	27234-35	Aug 23	YK	MacLeod	NWT/CC	Recommended that Task Force be established to review employee benefits, to receive briefs on proposed methods of subsidization, to prepare subsidy guidelines
178	27713	Aug 26		Runge	MVPI	Migration and growth estimates
	27718-20			Runge		Houses built; population growth estimates
181	28200-01	Sept. 8		McRae Breckenridge	MVPI MVPI	Want territories to cease being one of their 'subsidiaries'
186	28820-21	Sept. 16		Basham Scott	MVPI MVPI	Funding of "Trade Unions in Canada and the Northern Resident"
	28889-98			Snowden	COPE	"The Industrial Division" 1950's and 60's northern resource development policy; Division, Indian Affairs' development policies in opposition
196	30783-84	Oct.12		Skinnerland	CARC	Use of existing agencies to implement Mackenzie Valley Pipeline stipulations; mandates; at present has no organization to implement stipulations
199	31515-45	Oct.15		Beakhust	COPE	Northern program; Land Use Advisory Committee dominated by DINA; question of administrative justice re land use regulations

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142	21538	Apr.13	YK	Virtue	NORTRAN	Recruitment of trainees for Nortran by Canada Manpower
	21541-51			Virtue Giroux	NORTRAN	Assistance for Nortran trainees
	21560-62			Virtue Bayly	COPE/ITC	Manpower Delivery System
	21574			Virtue		Manpower criteria for educational assistance
	21616-18			Virtue		Financial assistance for the Nortran program
143	21668-69	Apr.14		Virtue		Estimates of number of unemployed, Mackenzie Valley
155	23674-75	June 30		Hollingworth Watkins	Foothills NWT IB/MA	Canada Manpower, compilation of statistics, unemployment

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C-55	5892	May 18	EDM	H. Cardinal	Citizen	Proposed pilot project, training for native people, Northern Alberta; Treaty Indian Training Corporation; problems with co-ordinating efforts between various levels of government
162	24976-40	July 12	YY	Hollands	CAGPL	Use of Canada Manpower as part of Manpower Delivery System
161	28180-81	Sept. 8		Mitchell	MVPI	Outreach Programme, native job counsellors, places people in training and jobs
186	28865-66	Sept. 16		Basham	MVPI	Participation in Manpower Delivery System
198	31157-71	Oct. 14	YK	Gates	MVPI	Implementation of Manpower program in NWT; Canada Manpower Training Program: membership of Joint Federal Territorial Manpower Needs Committee, functions; capital and operating costs; costs of apprenticeship training; Students' Summer Employment Assistance Program; Native Employment Division; creation of Local Initiative Program (LIP) and Local Employment Assistance Program (LEAP)
	31175-77			Gates		Immigration program of Department; response to increased job opportunities in the North
	31242-43			Witty	MVPI	Working relationship between territorial government and Canada Manpower
	31385-88			Forth	MVPI	Work visas; United States workers in Yellowknife; affiliation with union

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XVIII	2013	Mar. 14	YK	Dau	CAGPL	Dew Line weather information
XXXVII	4738	May 13		Dau		Dew Line, weather records
41	5370-71	May 20		Bayly	COPE/ITC	Dew Line, air flights
C-I	47	Apr. 2	Aklavik	Ross	Citizen	Witness worked on the Dew Line
	61-63			Tardiff	Citizen	Dew Line, takeover of land
C-II	101	Apr. 3		Gordon	Citizen	Dew Line
	110-112			J. Sittichinli	Citizen	Employment on Dew Line
C-13	1171-72	July 10	F. McP.	M. Snowshoe	Citizen	DEW line construction
55	7647-50	Aug. 15	WH	Banfield	CAGPL	Re: Weedon's testimony; DEW line facilities
C-19	1874	Aug. 6	FGH	Father Labatt	Citizen	DEW Line - first experience of impact
75	11113	Oct. 20	YK	Parker	CARC	Aircraft flights along the coast into Kaktovik to serve DEW Line Stations
76	11170	Oct. 21		Weedon	CARC	North Slope route; DEW line activities
78	11643	Oct. 23		Minning	CAGPL	DEW Line Stations at Shingle Point, Komakuk Beach
84	12592-93	Nov. 8		Williams	CAGPL	Komakuk Beach, DEW Line site water source
85	12618-19	Nov. 12		Williams		Komakuk Beach, DEW Line site sewage into sea
94	14206	Dec. 2		Gunn	CAGPL	Dew line sites; reduction in number of staging sites
97	14859	Dec. 5		Gunn		Beaufort Lagoon near old DEW line site
98	14872-84	Dec. 8		Gunn		Use of old DEW line sites for compressor stations
	14958			Jakimchuk	CAGPL	Caribou coping with DEW line stations
99	15055	Dec. 9		Scott	MVPI	Yukon coast, impact of DEW line sites on wilderness values
	15068-71			Banfield		DEW Line sites detract from North Slope wilderness values
102	15616-20	Dec. 12		Novakowski	CARC	DEW line construction regulations
106	16250-52	Dec. 18	YK	Lent	CARC	Arctic Wildlife Range wilderness status re: DEW line sites
109	16588	Jan. 14		McT-Cowan	EPB	DEW line sites, the rationale for using these disturbed sites as wharf and stockpile sites
	16663			Templeton	EPB	DEW line stations on North Slope
111	16934-35	Jan. 16		Bergerud	CARC	Wolf population, Mid-Canada line site
C- 25	2479	Sept. 8	FS	Erion	NWT CC	DEW line construction - impact on northerners

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C-34	3333	Oct. 16	YK	Henne	Citizen	DEW line re: impact of construction on ecology; money spent and wasted
	3373			Stephansson	Citizen	DEW line sites re: effects on people of Cambridge Bay and Frobisher Bay
C-39	3804	Feb.18	IN	Day	Citizen	Work or DEW Line, impact on community
113	17252	Jan.21		Hobart	GPC-D	Family accommodation for native workers DEW line sites
114	17354	Jan.22		Mainland	GPC-D-I	Decision needed from DIAND before Imperial buy equipment to get borrow material at Campbell Lake
117	17819	Jan.26		Rempel	GPC-D-I	Barge transport of fuel for DEW Line
118	17944-45	Jan.27		Bayly	COPE/ITC	DEW Line camp food shipped from south
121	18457-58	Feb.10		Barry	COPE/ITC	Utilization of DEW Line sites along Prudhoe Bay supply line to minimize environmental disturbance
122	18566	Feb.11		Barry	COPE/ITC	DEW Line fuel cache at Cape Parry
	18584-85			Barry		Use of DEW Line sites for compressor stations
130	19749	Mar.16	YK	Williams	CAGPL	Use of DEW Line sites for compressor station sites
132	200444-45	Mar.18		Williams		Use of DEW line sites as compressor stations, problems
136	20608	Mar.26		Marshall	CAGPL	Using DEW line sites on North Slope for compressor stations
C-46	4427-28	Mar.11	PAUL	G. Ruben	Citizen	Working on DEW line, move back to the land
C-55	5780	May18	EDM	J. Barry	Citizen	Dew Line, construction by caterpillar tractors
156	23910-	July 1	YK	Gillie	NWT IB/MA	Native people unprepared for impact caused by development, building of DEW Line.
180	27886-87	Sept. 7		Nessel	MVPI	DEW line, only local people because no one else could get there to work

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C-19	1891-93	Aug. 6	FGH	Heming	NHW	Health conditions in Fort Good Hope
68	10074	Sept. 24	YK	Hushion	Foothills	Consultation with Foothills re needs for medical services with influx of pipeline workers
185	28643-54	Sept. 15		Noble	COPE	Responsibility for health services divided between Federal and Territorial governments, conflict and confusion, attempts to make Territorial government responsible only; decision to close T.B. ward of Charles Camsell Hospital
196	30819	Oct.12		MacLeod	CARC	Sanitary standards for sewage disposal; water quality standards for drinking water; Petroleum Products Ordinance, Gasoline Handling Ordinance, control of oil spills; Pesticides Ordinance, use of pesticides
198	31394-95	Oct.14		Carnew	MVPI	Dental therapy program at Fort Smith under Northern Health Services

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XV	1704	Mar.11	YK	Mollard	CAGPL	7,000 drill holes
XVI	1835	Mar.12		Anthony	CARC	7,000 drill holes
	1849-54			Dau	CAGPL	Location of proposed Mackenzie Highway
XVII	1890	Mar.13		Williams	CAGPL	Proposed location of the Mackenzie highway
XXIX	3611-14	Apr.14		Scott	MVPI	DPW highway criteria differs from pipeline
XXXIII	4326	Apr.21		Dau		DPW - final site selection and design of wharves and stockpile sites

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XXXIV	4376	Apr.22	YK	Marshall	CAGPL	Mosaic sheets, Milepost 297 to 729
XXXVIII	4858-60	May 14		Dau		Consulted for final decision on sites
	4863			Lucas	CARC	All weather access roads
44	5859	May 23		Genest	CAGPL	Meetings; discussion about avoiding crossing the highway
50	6639-40	June 6		Horte	CAGPL	Drilling information used by CAGPL.
C-13	1255	July 10	F. McP.	J. Itsi	Citizen	Need recreation hall in Fort McPherson; fire regulations
59	8337	Aug. 21	YK	Mirosh	Foothills	Foothills meeting with DPW concerning proposed Mackenzie Highway route
60	8556-60	Aug. 22		Fawcett	Foothills	Location of pipeline in relation to Mackenzie Highway
52	6936	aug. 17	WH	Dau		Meetings with CAGPL re highway location
C-18	1827	Aug. 5	FGH	Ellwood	Foothills	Information source to Foothills re borrow sites near Fort Good Hope
C-22	2232-38	Aug.11	WH	A. Wright	Citizen	Building of the Dempster, Mackenzie Highways
61	8621	Sept.15	YK	Gibbs	Foothills	DPW altered the location of the Mackenzie highway to avoid grave site area at Fort Alexander
62	8818	Sept.16		Mirosh		Foothills and DPW communication re use of existing bridges
68	10104	Sept.24	YK	Hushion	Foothills	Conversation with DPW re Delta Producers' plans for all-weather roads to Inuvik from plants
72	10759-63	Oct. 15		Lewis	MVPI	Government interested in a shipping channel; stabilizing of coastal cliffs; Tuk Peninsula; Babbage Bight; siltation; Tuk harbour
78	11549	Oct. 23		Roed	CARC	D.P.W. borrow pit at Inuvik, crest of a drumlin, ice rich materials
86	12915	Nov. 13		Davison	Foothills	Gravel information
	13045			Williams	CAGPL	Held up by open water, crossing near Fort Simpson
87	13064	Nov. 14		Bouckhout	Foothills	Granular sources indicated by DPW
90	13665	Nov. 19		Berger		Try to obtain highway impact studies
91	13953	Nov. 20		Berger		Obtaining reports on impact of Dempster Highway
94	14335	Dec. 2		Banfield	CAGPL	Review of highway assessment - environmental impact, DOE; EARP
99	15106	Dec. 9		Bouckhout		As information source for environmental statement
104	15928	Dec. 16		Millen	CARC	Culvert selection for Rengleng River crossing failure
105	16029	Dec. 17		Marshall	CAGPL	Recommendations re: stream crossings affected by highway
108	16565	Jan. 13		Templeton	EPB	EPB communication with DPW re: initiate a western Arctic transportation group to select a corridor
C-26	2704-05	Sept. 9	FS	Lamothe	Citizen	Results of University of Alberta research re: Inuit community; DPW built school, results of construction re: maintenance, recreational facilities, roads, garage, etc.
C-39	3712	Feb.18	IN	Robertson	Citizen	Capital cost recovery likened to Power Commission and wharfage
125	19063-64	Feb.14		Lewis	COPE/ITC	Stabilization of Tuktoyaktuk shoreline
136	20755	Mar.26	YK	Hunt	MVPI	Hovercraft dock in domestic fishing area, Arctic Red River
151	23105	May 5		McClellan	CYI	Administration of Alaska highway since 1960's
196	30787	Oct.12		Skinnarland	CARC	Potential organization to implement pipeline stipulations; connections with highway development

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XV	1606-08	Mar.11	YK	Scott	MVPI	Availability of departmental reports (published and unpublished)
	1608-12			Scott		Consultation between departmental officials and participants
	1612 -			Scott		Calling and availability of DOE witnesses
	1612-14			Scott		DOE intervention in Inquiry

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XVIII	2009-10	Mar.14	YK	Scott	MVPI	Letter from Minister re: cooperation
XXV	2960	Apr.8		Clark	CAGPL	Canadian Wildlife Service - raptor nests
XXXI	3994	Apr.16		Scott		Meeting with officials
XXXII	4070	Apr.18		Scott		2% methanol released too high
XXXVI	4658-60	May 12		Lucas	CARC	Environmental work done by CARC
46	6037	June 2		Templeton	EPB	Not have authority to control project
48	6324	June 4		Craik	EPB	Little defined enforcement responsibilities
	6367-72			Craik		Environmental legislation
C-I	23	Apr. 2	Aklavik	Elanik	Citizen	Animals found soaked in fuel were given to Wildlife Service
C-16	1522-24	July 13	O.C.	P. Benjamin	Citizen	Canadian Wildlife Service work, Old Crow area
	1551			R. Allen	Citizen	Fisheries and Marine Service, monitoring seismic activities
	1554-55			C. Abel	Citizen	Forestry services, closing of winter road camp
59	8330-31	Aug. 21	YK	Scott		Circulation of studies of interest to the Inquiry
52	6989	Aug. 12	WT	Veale	CYI	CWS and Yukon game department studies of Fairbanks route
54	7443	Aug. 14		Banfield	CAGPL	Bathurst caribou herd; Canadian Wildlife Service
63	9043	Sept.17	YK	Lazerte	Foothills	Compliance with DOE regulations re waste disposal
64	9303	Sept.18		Spafford	Foothills	Precipitation & temperature records from Atmospheric Environment Service
	9424			Spafford	Foothills	Use of weather statistics
66	9707			Jarvis	Foothills	Estimation of snow in windy areas
	9733			Jarvis		Temperature records, precipitation from Atmospheric Environment Service
68	10196	Sept.24		Templeton	EPB	Interest in becoming regulatory agency over pipeline
	10210			Templeton		Jurisdiction in Alberta & NWT (Fisheries)
70	10554	Sept.26		Longlitz	MVPI	Section 33 of the Fisheries Act: Fisheries and Marine Service re: river crossings structures
71	10639-41	Oct.14		Bayly Longlitz	COPE/ITC	Canadian Wildlife Service, Fisheries Department; water use permits, fishing permits re: section 33 of the Fisheries Act; bird sanctuary permit
	10650-53			Bayly Longlitz		Prosecution under section 33 of Fisheries Act
	10667-70			Bayly Longlitz		Land use permits; consultation with Wildlife Service; Game Management, the Fisheries
	10683-85			Bayly Longlitz		Environmental damage; interest of various departments, Wildlife Service
78	11640	Oct.23		Minning	CAGPL	Meteorological network maintained by Environment Canada, pipeline route removed from existing points of data collection
80	11814	Nov.4		Clark	CAGPL	Hydrometric stations and combined studies and gauges between CAGPL and Glaciology Division of Inland Water Directorate of DOE
	11940			Williams	CAGPL	Forestry Dept. would probably prefer burning of slash, timber
83	12471-80	Nov. 7		Scott McCart Harlan Marshall	MVPI CAGPL CAGPL CAGPL	Guidelines, gravel mining, rivers
85	12634-35	Nov. 12		Bayly McCart	COPE/ITC	Reports on fish populations, North Slope rivers
	12683			Hemstock	CAGPL	Guidelines re liquid storage near water
85A	12744-47			McCart		Fisheries service studies, Oscar Creek, Rat River, Three Day Lake
	12782			Berger		Fish hatchery, B.C., Fraser River
86	12874-79	Nov. 13		Lawrence	Foothills	EPS guidelines, water supply, waste disposal
	12982-87			Lawrence		Decision re chlorine, sewage effluent; sewage disposal; Camp Takhini
88	13254-55	Nov. 17		Lawrence		Guidelines, disposal of non-organic wastes

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89	13419	Nov. 18	YK	Gunn	CAGPL	Gyrfalcon studies in cooperation with CWS
90	13665	Nov. 19		Berger		Try to obtain highway impact studies
91	13923-24	Nov. 20		McCart		Fish studies on North Slope and Mackenzie River area
	13953			Berger		Obtaining reports re impact of Dempster Highway
93	14071	Dec. 1		McCart		Fisheries Service; research re: Mackenzie River as a spawning area
	14102-10			Gunn		Canadian Wildlife Service re: location of peregrine falcon nests; reports
	14169			Gunn		Canadian Wildlife Service; sensitive to disturbance re: rare and endangered species
	14191			Gunn		Discussion with Canadian Wildlife Service over use of borrow materials in the Campbell Hills and nesting sites of peregrine falcons
94	14267	Dec. 2		Jakimchuk	CAGPL	C.W.S. studies on the Kaminuriak herd
	14332			Banfield	CAGPL	Highways reviewed re: environmental impact by DOE people; EARP method
95	14388	Dec. 3		Jakimchuk		Canadian Wildlife Service - Arctic ecology map series
	14508-18			Hemstock Berger	CAGPL	Regulations - hunting, fishing, flight disturbance; C.W.S.
96	14551	Dec. 4		Jakimchuk		C.W.S. study on the Kaminuriak herd
	14596-606	Dec. 4		Jakimchuk		A need seen for the C.W.S. and the Yukon game branch to study the Dempster highway and its effect on caribou
97	14722	Dec. 5		Jakimchuk		C.W.S. survey of moose, 1974, Mackenzie Valley
	14800			Gunn	CAGPL	C.W.S., snowgeese information, North Slope
	14850-56			Scott Gunn	MVPI	CWS estimation of snow goose value at \$50
98	14863	Dec. 8		Gunn		CWS records of birds killed by native people
	14905-06			Gunn		Studies of peregrine falcon
	14923-24			Jakimchuk Scott		CWS caribou surveys
	14970			Scott		CWS report, Porcupine herd calving movements
	14990-91			Gunn		Game management program for previously remote areas
	14993-15006			Marshall Scott Hemstock	CAGPL	Development of game management programme; additional data from CAGPL consultants
99	15122	Dec. 9		Hayden	Foothills	Fisheries and Marine Service, no surveys of Yellowknife/Pine Point lateral route
	15130			Whitney	Foothills	Dick of CWS agrees caribou may use soil, mineral source
	15182			Whitney		Information on Yellowknife lateral from CWS flights
100	15204	Dec. 10		Hayden		Fish population studies, Fisheries and Marine Service
	15209-10			Bouckhout	Foothills	CWS studies of Bluenose caribou herd
	15212-14			Marshall	CAGPL	Request for CWS studies of Bluenose caribou herd
	15219-22	Dec. 10		Hayden		Co-ordinating studies with Fisheries Service; fish poisoning; dead-sampling restrictions
	15233-34			Kondla	Foothills	"Planning and Finance Service, Occasional Paper no. 1", titled "Parameters for Ecosystem Evaluation", evaluation through objective criteria
	15237			Bayly Bouckhout	COPE/ITC	Co-operation with CWS to enlarge data base
	15291-92			Scott Hayden	MVPI	Using Fisheries Service studies for baseline information
	15325			Scott		Taglu gas scrubbing plant needs CWS permission to locate in Kendall Island Bird Sanctuary
	15354-55			Whitney		Obtaining reports from CWS
101	15409-12	Dec. 11		Peterson	CARC	DOE's pipeline-related studies; Land Use Information map series; EPS waste disposal guidelines; DOE input into Environmental-Social Program

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101	15421	Dec. 11	YK	Peterson	CARC	Forest Management Institute, revegetation mapping for E-S P
	15422-23			Peterson		DOE input into "1972 Pipeline Guidelines"
	15531-33			Zoltai	CARC	Task Force on Pipeline Assessment, comments on recommendations
102	15551	Dec. 12		Peterson	CARC	Proposed research, sulphur dioxide effects on lichens
	15594			Peterson		Campbell Lake-Dolomite Lake proposed IBP site coincides with CWS's proposed Campbell Lake wildlife area
	15616-20			Novakowski	CARC	Migratory waterfowl regulations
	15652-53			Novakowski		IBP Site Committee, some members from DOE
103	15712	Dec. 15		Ryder	MVPI	Surrendi and DeBock Report release pending approval by CWS
	15726-27			Stein	CARC	Fisheries and Marine Service Guidelines for fish resource protection re: gravel removal from river and lake systems
	15732			Stein		Guidelines - stream culvert construction
	15743			Stein		Environmental inspectors re: biological monitoring programs
	15746-47			Walker	CARC	Fisheries Service objectives and sub-objectives
	15755-56			Steigenberger	CARC	Summary of studies by Fisheries and Marine service re: Northern Yukon routes
	15777			Steigenberger		Fisheries Service failure to study interrelationships and dependence of fisheries resource on gravel resource
	15788			Millen	CARC	Witness' background
	15795-96			Millen		Consultation - pipeline companies/Fisheries Service re: stream crossings gravel removal
	15802-06			Stein		Fish research - Beaufort Sea Program
	15821			Stein		Fishery Service re: recording of Arctic char removal from Big Fish River
	15823			Stein		Failure to manage Big Fish River Arctic char removal
104	15861-63	Dec. 16		Bayly Stein	COPE/ITC	Capacity of Fisheries Service to provide advice re: problems, contingency plan solution
	15908			Steigenberger	CARC	Fisheries Service re: termination of studies in Mackenzie Delta
	15913-41			Stein Steigenberger Walker Millen	CARC CARC CARC	Fisheries Department - studies on the Mackenzie; river crossing studies - Rengleg, Rock, Labiche, Martin Rivers; further studies needed, methods to be employed (general)
	15952			Stein		Fisheries Management branch re: Mackenzie system commercial/domestic fishing competition
	15960-63			Bayly Millen		Fisheries Department re: list of substance for pipeline testing
105	15976	Dec. 17		Goudge	MVPI	Reports - require clearance by D.O.E.
	15998-16050			Berger Walker		Co-operation of Madame Sauvé Fisheries Service program re: biology, physical aspects of resources, environment changes, precautions and guidelines; monitoring and inspecting of line to ensure protection of aquatic resources
	16067			Millen		Fisheries Service re: corridor concept
	16072-73			Marshall	CAGPL	Fisheries and Marine Service re: guidelines for protection of fish resources
	16103-06			Ryder	MVPI	Pacific Region of Fisheries Department re: guidelines for gravel removal
	16111-22			Millen Steigenberger Ryder		Reinforcement of crossing with logs re: removal of the bridges difficult; Fisheries monitor removal of snow and ice bridges; conflicts within recommendations published by government and industry; enforcement of terms and conditions re: single authority in addition to terms of Fisheries Act
106	16191-96	Dec. 18		Calef	CARC	Canadian Wildlife Service re: caribou population studies

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106	16233-34	Dec. 18	YK	Calief	CARC	Canadian Wildlife Service, DeBock, re: caribou response to traffic and hunting on Dempster Highway
	16265-66			Lent	CARC	Canadian Wildlife Service re: study of mortality on caribou calving grounds
107	16375	Jan. 12		Wilimovsky	EPB	Data re: fish catches; domestic fishing
	16393			McT-Cowan	EPB	Respirometers used by C.W.S.; physiological manifestations of disturbance
	16405			McT-Cowan		Dr. I. McEwen for the C.W.S. - evidence of caribou wintering on the coast
108	16566-67	Jan. 13		McT-Cowan		Canada Land Use Inventory maps; C.W.S. - areas for protected birds
109	16617	Jan. 14		McT-Cowan		C.W.S. regulations, accessibility to falcon nests, enforcement
110	16799-800	Jan. 15		Bergerud	CARC	C.W.S., collection of population data
	18828			Lent		Does not recommend a joining of the C.W.S. and the Alaskan counterpart into an International Wildlife Service
111	16969-71	Jan. 16		Davies	MVPI	Information from speech by R. Logic, chairman, Environmental Assessment Panel, D.O.E.; federal departments refer new projects to D.O.E. for review; recommendations from assessment panel to minister
C-34	3258	Oct. 15		Duesterhus	Citizen	Reports re: erosion in Mackenzie Valley and on North Slope
	3370	Oct. 16		Stephansson	Citizen	Canadian Wildlife Services
C-38	3628-29	Feb.12	IN	Berger		Brief summary - environmental studies given as evidence at formal hearings
114	17342	Jan.22		Mainland	GPC-D-I	Producers going through environmental assessment review process
	17349			Bayly	COPE/ITC	Identifying concerns re peregrine falcons in Campbell Lake area to be used for rip rap site
	17383			Mainland		Working on waste drilling fluids disposal guidelines with DOE
115	17492	Jan.23		Bayly Faulkner	GPC-D-S	Flights to Niglintgak gas field in Kendall Island Bird Sanctuary controlled by CWS procedures
116	17623-24	Jan.24		Bayly		EARP environmental study of Husky Lakes and Liverpool Bay
	17646-47			Rempel	GPC-D-I	F.F. Slaney and Company environmental program reviewed with Environment Canada
	17657			Rempel		Listing of oil spill equipment in Canada available from Environment Canada, National Emergency Equipment Locatar System
	17703			Appleton	GPC-D-G	Acceptable products to transport by barge to Parsons Lake development
	17705			Appleton		Hydrographic survey in Husky Lake
	17713			Appleton		Recreational fishing governed by Canadian Wildlife Service
117	17788-90	Jan.26		Rempel	GPC-D-I	Canadian Wildlife Service, restrictions in Kendall Island Bird Sanctuary
120	18269	Jan.29		Pimlott	COPE	Canadian Wildlife Service, research on snow geese, murre
	18287			Pimlott		Circulation of Millen's summary report, Beaufort Sea project, by DOE
122	18530-32	Feb.11		Stirling	COPE/ITC	Research on polar bears - population dynamics, movements into Alaska; International Agreement on conservation of polar bears
	18631-37			Stirling		Enforcement of international agreement on polar bear management; value of DOE studies on Banks Island Arctic Fox

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125	19089-95	Feb.14	IN	Pettigrew	COPE/ITC	Environmental emergency authority, responsibilities
	19115-18			Pettigrew		Responsibilities during oil spill clean-up
127	19411-13	Feb.17		Monaghan	COPE	Canadian Wildlife Service research programs, co-operation with Territorial Game Branch; studies, funding
128	19498-504	Feb.18		Trudeau	COPE	Fisheries Service; guidelines for industry; fisheries officers, monitoring, inspection; enforcement of Fisheries Act
	19514			Trudeau		Environmental Protection Service, role in regulating fuel spills
	19524			Trudeau	COPE	Co-ordination of Environmental Protection Service and Fisheries Marine Service in enforcing Fisheries Act
	19564			Milne	COPE	Brackell, DOE wildlife economist, study of economic values of wildlife resources
129	19664	Feb.19		Speller	MVPI	Canadian Wildlife Service, protection of migratory birds
	19681			Speller		Canadian Wildlife Service, enforcement of fishing and hunting regulations
	19694-96			Speller		Permit issued by Canadian Wildlife Service re aircraft flights over bird sanctuaries
130	19745	Mar.16	YK	Williams	CAGPL	Dr. T. Barry of CWS, discussion of his proposed cross-Delta route
	19760			Hollingshead	CAGPL	Design flow of Mackenzie River based partly on Water Survey of Canada observations
134	20255	Mar.24		Bayly	COPE/ITC	Letter from W. Vogl to G.R. Douglas, Director Fisheries Operation, Winnipeg, re hovercraft disturbance of whales
	20269			Webb	CAGPL	Report by Dr. K. Doan, Fisheries Research Institute, whales in Churchill River estuary
	20315			Webb		Study by I. McEwen, C.W.S., Kendall Island area, including whale information
136	20691-97	Mar.26		Peet	MVPI	Responsibilities of Fisheries division; recommendations for dealing with aspects of pipeline construction affecting fisheries
	20710-18			Peet	MVPI	Regulation of fisheries
	20732-36			Peet		Regulation of fisheries
	20755-65			Peet		Fisheries Service guidelines for wharf sites; DOE minister's powers re fisheries; information on domestic, sports fisheries to avoid conflict; study of commercial fisheries supplying construction camps; increased enforcement force required
137	20920-41	Apr. 6		Stephen	MVPI	Canadian Wildlife Service, responsible for administration of Migratory Birds Convention Act
138	20985	Apr. 6		Bell Simmons	NWT IB/MA MVPI	Fish and Wildlife Service records, land use by native people
	20990-93			Simmons		Fish and Wildlife Service, position on control of hunting, trapping, fishing by pipeline workers
	20997-21002			Stephen		Role of Wildlife Service during pipeline construction phase
	21030-31			Simmons		N.W.T. Fish and Wildlife Service, research on Porcupine caribou, bluenose herd
139	21086-110	Apr. 7		Stephen Simmons		Ability of CWS to negate permit jurisdiction to resource developers, policing of (and) violations of permit stipulations in bird sanctuaries, prosecutions
	21174-75			Mossop	MVPI	Land use operations lacking CWS regulatory input
140	21294	Apr. 8		Nicol	COPE/ITC	Position - use of chemicals in cleaning oil
	21356-68			Allison	COPE/ITC	Failure to notify coastal communities of offshore oil spill experiments at Cape Parry; Environmental Protection Service offshore oil spill experiments proposal

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C-52	5393	May13	CAL	C. Osborne	Citizen	Map, No. 68, Herschel, Arctic Ecology Series Canadian Wildlife Service
C-54	5731-32 5741	May17	EDM	Robertson MacDonald	Citizen Citizen	Money that should be spent on research, CWS Minister Jean Marchand explained that because so much spent by Dome Petroleum, could not cut off their development
C-55	5916	May18	EDM	P. Hayes	Citizen	Levels of environmental air pollution, Edmonton; need for enforcement of DOE laws
C-64	7268	June 3	OTT	Pimlott	CARC	No mandate north of the 60th parallel
194	30314-15	Oct.6	YK	Doyle	EPB	No arrangements made to update Doyle report - regulatory agency, its terms of reference
196	30785-86	Oct.12		Skinnarland	CARC	Use of existing agencies to regulate Mackenzie Valley Pipeline stipulations; administration of Fisheries Act, Migratory Birds Convention Act, Clean Air Act; responsibilities under mandate; no real authority to implement environmental stipulations
	30818			MacLeod	CARC	Environmental Protection Service, pollution pre- vention jurisdiction; Fisheries and Marine Service, supervision of river and stream crossings; Canadian Wildlife Service, prevention of wastes in water frequented by migratory birds
	30890			MacLeod		Fisheries officers, supervise stream crossings; EPS biologists, physical scientists

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40	5215	May 16	YK	Hurd	CAGPL	Requirements for operation under instrument flight rules
41	5370-72	May 20		Hurd		Controlled air space regulations
41	5369-71			Bayly	COPE/ITC	Air patrol, line breaks; altitudes
48	6334	June 4		Willimovsky	EPB	Co-ordination with environment protection re: Noise Abatement Regulations (aircraft)
C-5	392	May 29	Hay River	Tetrault	Citizen	Standards, licencing of masters and mates
C-16	1591	July 13	O.C.	B. Sharpe	Citizen	Upgrading of airstrip in Old Crow
56	7871	Aug. 18	YK	Horte	CAGPL	Appropriate aircraft landing facilities and maintenance
C-20	1968	Aug. 7	FGH	A. Tobac	Citizen	No natives man MOT stations
C-21	2152-58 2159-62	Aug. 9	NW	G. Loomis P. Tourangeau	Citizen Citizen	Leases in Norman Wells Hunting by employees
65	9463	Sept.19	YK	Spafford	Foothills	Soundings of Mackenzie near Naylor's Landing
89	13430	Nov. 18		Gunn	CAGPL	Aircraft overflight frequency, regulations
95	14508-18	Dec. 3		Bayly Berger	COPE/ITC	Aircraft flights, regulations - frequency, altitude, mammal disturbance
97	14798-800 14815	Dec.5		Templeton Gunn Templeton	EPB	Overflight restrictions, Mackenzie River, recommendations to be worked out with MOT Overflight altitude restrictions
1-0	15263-65	Dec.10		Bouckout	Foothills	Recommendations, aircraft overflight altitudes, corridors
109	16612-13	Jan.14		McT-Cowan	EPB	Concept of air corridors, width, impact
C-39	3712	Feb.18	IN	Robertson	CITIZEN	Policy paper on self liquidation of airports
114	17293	Jan.22		Mainland	GPC-D-I	Taglu gas field airstrip to be built to MOT standards
117	17785-86	Jan.26		Wopnford Appleton	GPC-D-S GPC-D-G	Flight paths used by charter companies
118	17988 18096	Jan.27		Goudge Wopnford Motyka	MVPI GPC-D-G	Inuvik MOT airport, adequacy Gulf's plans to use Inuvik MOT airstrip, transfer of materials and personnel
125	19115-18	Feb.14		Pettigrew	COPE/ITC	Responsibilities during oil spill clean-up

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129	19662-64	Feb. 19	IN	Speller	MVPI	Regulation of aircraft, enforcement
133	20165-68	Mar. 23	YK	Jakimchuk Gunn	CAGPL CAGPL	Regulation of aircraft overflights
139	21187-88	Apr. 7		Heacock	MVPI	Mac Plan study - impact of oil industry on Transport Canada commitments in the north
140	21294	Apr. 8		Nicol	COPE/ITC	Position - use of chemicals in cleaning oil
173	26931-34	Aug 19	YK	Dittrich	COPE/ITC	Inuvik, potential hazard of in town airstrip; Shell Lake base.
175	27265-66	Aug 23	YK	Hinchy	NWT/CC	Enforcement of regulations re non-commercial carriers carrying out commercial operations, string- ency of air worthiness certificate requirements; proposed MOT inspector to enforce regulations
196	30786-87	Oct. 12		Skinnarland	CARC	Use of existing agencies to regulate pipeline stip- ulations; responsible for administration of Navigable Waters Protection Act, Canada Shipping Act, National Harbour Boards Act; Northern Transportation Co Ltd.
	30818-19			MacLeod	CARC	Role in water management; Canada Shipping Act, regulates spills from shipping; Navigable Waters Protection Act, regulates construction of bridges and docks

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XV	1622-28	Mar. 11	YK	Anthony Gibbs Genest	CARC Foothills CAGPL	Filing of exhibits supporting Application to NEB
XVIII	2047-52	Mar. 14		Scott Dau	MVPI CAGPL	Application for Certificate
	2084-87			Scott Dau		Filing of amendments; minor amendments not filed
XXIV	2785	Apr. 7		Genest		Canadian content and sources of manufacture of pipe
XXX	3770	Apr. 15		Marshall	CAGPL	Capital costs and rates, tolls and tariffs
	3779-81			Marshall		Gas volume, 42" alternative
	3788			Marshall		49th parallel
XXXI	3873-75	Apr. 16		Anthony		Questions over "National Economic Effect of the Applicant's Proposal"
	3880-81			Berger Gibbs		Questions related to the gas destination south of the 60th parallel
XXXII	4048-49	Apr. 18		Genest		Quality of pipe from various manufacturers
XXXVIII	4871	May 14		Lucas	CARC	Regulatory approvals
	4929			Lucas		DIAND, Certificate of public convenience and necessity
	4935-36			Dau		Design review
41	5327	May 20		Hurd		Reporting of line breaks, causes, methods of repair, timing
42	5571	May 21		Genest		New application for additional ROW, looping
43	5620-21	May 22		Genest		U.S./Canadian users of gas
	5631-35			Horte	CAGPL	M.C.F. miles, cost of transporting gas
	5647			Gibbs		Hearings, looping pipeline
	5663-71	May 22		Gibbs		Applicant's proposal before NEB
	5674-75			Berger		Questions of supply and demand
	5679-83			Gibbs	Foothills	Gas Supply Hearing
	5711-13			Horte	CAGPL	Items under jurisdiction of NEB
44	5785-86	May 23		Bell	NWT IB/MA	Regulatory approvals
45	5934-37	May 24		Horte		Authority over pipeline project
	5946-48			Horte		CAGPL prefers N.E.B. as authority over project
46	6037	June 2		Templeton	EPB	Responsibility to control pipeline - environmental protection priority?
48	6368-70	June 4		Craik	EPB	Question of appropriate control agency
49	6490-92	June 5		Horte		Rate setting method
	6599-6601			Horte		N.E.B. logical regulatory agency

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50	6721-24	June 6	YK	Horte	CAGPL	Function to approve pipeline designs
57	8029-35	Aug. 19		Blair	Foothills	AGTL submission to NEB; NEB power over tariffs
59	8308-10	Aug. 21		Scott	MVPI	Requirements as set out by NEB for a pipeline
	8320-28			Scott Berger		Gas reserves; official guidelines
60	8483-84	Aug. 22		Berger		Canada's gas requirements, matter for the NEB
52	6903-07	Aug. 17	WH	Anthony	CARC	Application pending for oil pipeline
	6961-62			Marshall	CAGPL	Cost analysis basis of CAGPL filings
C-20	1909	Aug. 7	PGH	Blair	Foothills	Foothills to consider rerouting near Ft. Good Hope within time frame of NEB decision re pipeline
C-21	2096	Aug. 9	NW	G. Monuik	Citizen	Should expedite pipeline decision
62	8786-d	Sept. 16	YK	Glockner	Foothills	Submission of additional data to N.E.B.
	8797			Marshall	CAGPL	Information made available to N.E.B. and DIAND about a possible alternative across the Delta
64	9350	Sept. 18		Davison	Foothills	Use of CAGPL data outlined in submission to NEB
65	9506	Sept. 19		Berger		Recommendation of right-of-way permit to build pipeline
	9548	Sept. 19		Mirosh	Foothills	Geothermal model data being prepared for NEB
	9577-78			Claridge	Foothills	Construction safeguards & Arctic methods to be prepared by Foothills
68	10191	Sept. 24		Templeton	EPB	Rate bases imposed on companies
	10196			Templeton		Interest in becoming sole regulatory agency for pipeline
	10209			Templeton		Jurisdiction north of 60°
70	10510-16	Sept. 26		Owen	MVPI	Jurisdiction over land use regulation; Pointed Mountain Line; seismic operations
77	11370	Oct. 22		Berger		Filing application re: alternative routes, no mention made of east of the Franklins
	11403			Berger Rutter	CARC	Rutter's involvement with NEB; evaluation of an application before the Board
79	11754	Nov. 3		Hollingworth	Foothills	CAGPL deficiency letter No. 7 to NEB
82	12225-34	Nov. 6		Marshall	CAGPL	Regulations re: land use along right of way
	12246-56			Scott	MVPI	Failure to monitor land use along Pointed Mountain right of way
	12308			Scott		NEB request for additional information revealed cracks in berm at Prudhoe Bay test site
88	13276-77	Nov. 17		Berger		NEB to consider Canada's gas and pipeline requirements
89	13432	Nov. 18		Gunn	CAGPL	Ornithologically, pipeline can conform to regulations
90	13731	Nov. 19		Gibbs	Foothills	Announcement of NEB hearings of Cross-Delta as prime route
94	14242	Dec. 2		Berger		Workability of work shutdowns
	14291-94			Berger		Gas and oil reserves, needs; North Slope potential; Canadian and American interests; economics of scale
	14319-20			Berger		Delivery and cost of gas
95	14506	Dec. 3		Hemstock	CAGPL	Environmental inspectors, responsible to a senior man on a spread
	14513			Berger		Report to be completed by the NEB
97	14739-41	Dec. 5		Berger		Duties of NEB re deciding on gas pipeline
	14764-67			Berger Marshall	CAGPL	NEB hearings as adversary proceeding; witnesses opinions binding applicants at hearings
100	15371	Dec. 10		Bouckhout	Foothills	Questioned by NEB on monitoring program
101	15492-501	Dec. 11		Scott	MVPI	CAGPL deficiency statement reply to NEB re fenland areas along route
106	16278	Dec. 18		Marshall		Filing re: adoption of cross-delta route
107	16320	Jan. 12		Craik	EPB	Pipeline authority should have powers during construction comparable to those of NEB
	16379			Berger		NEB might constitute an agency re: input in a pipeline authority

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108	16453-55	Jan. 13	YK	McT-Cowan	EPB	Regulatory body; issue of the surety bond left to the NEB
110	16739	Jan. 15		Hollingsworth	Foothills	Response at NEB Hearings, Jan. 13, 1976 re: construction scheduling of Arctic Gas
C-24	2428-33	Aug. 23	TL	Rowe Hushion	CAGPL Foothills	Pipeline scheduling; desired completion dates; native land claims settlement
C-25	2514	Sept. 8	FS	Hammond	Citizen	Foothills - delta gas reserves, prospectives re: demonstration before NEB
	2537			Berger		Pipeline report
C-27	2768-69	Sept. 10		Berger		Procedure for oil pipeline re: certificate of public convenience and necessity
C-30	2961-62	Oct. 6	PP	Berger		Energy hearing, NEB report to Cabinet
	2965-66			Berger		Consideration of gas transport methods
	2968-69			Reed Berger	Citizen	Effectiveness of MVPI, NEB vs a Royal Commission
C-33	3166	Oct. 9	FS	Mirosh	Foothills	Permit needed to start pipeline
	3179-81			Stevenson Berger	Citizen	Role of National Energy Board and Federal Government
	3204			Lisk Berger	Citizen	Role of National Energy Board and Federal Government
C-34	3256-57	Oct. 15	YK	Duesterhus	Citizen	Templeton's definition of "impact"
C-39	3721	Feb.18	IN	Hill	Citizen	Mackenzie Valley Pipeline Authority operation similar to NEB
	3745			Berger		Role
	3753-54			Berger		Role in determining cost, financing of project
115	17484	Jan.23		Stewart	GPC-D-I	Imperial gas reserve estimates more reliable than figures put before NEB
	17509			Faulkner	GPC-D-S	Niglintgak gas field, relies on pipeline getting NEB approval
	17589			Berger		Gulf not yet ready to tell NEB of reserve estimates
122	18488	Feb.11		Carter	CAGPL	Filing of amendments to CAGPL application
145	22158	Apr. 26	YK	Berger		Federal government guarantee on pipeline completion, matter for consideration by NEB
150	22994-95	May 4		Hollingsworth	Foothill:	Statement by Kelly Gibson, Foothills' Chairman of the Board
C-47	4654-55	Mar.13	ARR	R. Andre Berger	Citizen	Role of NEB in decision
C-49	4784	May10	VAN	Scoten	Citizen	Arctic reserves to be developed to offset shortages predicted by NEB
C-50	4999-5000	May11		Tanenbaum	Citizen	NEB estimations of gas reserves, 34 years minimum
C-53	5445-46	May14	CAL	Pearce	Citizen	Testimony in front of NEB - difficult for public to fully understand
C-55	5923-24	May18	EDM	J. Harvey	CAGPL	Report, Canada's energy situation
15-A	23845	June 30	YK	Jelliss	NWT IB/M	NEB study on export price for Pointed Mountain gas, March 1974
C-59	6564-65	May 26	TOR	G. Vandezande	Citizen	Lack of confidence, NEB ability to represent the public interest
C-62	6962	May 31	MTL	Genest	CAGPL	Energy supplies will be closely examined by NEB
C-63	6985-89	June 1		Schiblie	Citizen	Gas estimates by NEB should be correct, calling for investigation as to discrepancy between 1971 and 1974 figures
	6992-98			Barbeau	Citizen	Presentation by Quebec to NEB re gas supplies, delivery in Province of Quebec
	7007			Daigle	Citizen	Report of NEB, "Canadian Natural Gas Supply and Requirements"
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C-64	7249	June 3	OTT	Birnie	Citizen	1975 Report on Supply, Deliverability and Requirements of Natural Gas in Canada
164	25317-20	July 15	YK	Berger		Will determine gas reserves, decide on national impact
C-68	7884	July 16	FP	Horte	CAGPL	If rules need for laterals to communities, CAGPL will heed them
C-76	8369	Aug. 25	DET	Steeves	CAGPL	Knowledge of companies about frost heave and river crossing, their concern
177	27486 27492	Aug 25	YK	Wood Wood	NWT/AM	No subsidy for north gas delivery. Must develop policies for provisionin of energy in north.
181	28155-56	Sept. 8		Reimer	MVPI	National priorities and final decision of pipeline in jurisdiction
193	30227-29	Oct. 5		Doyle	EPB	Enlargement of Department to accommodate Agency
196	30254 30784-85	Oct.12		Doyle Skinnarland	CARC	NEB not considered in Agency study Use of existing agencies to regulate Meckenzie Valley Pipeline stipulations; National Energy Board Act, mandate
	30788-90			Skinnarland		Responsibilities of NEB; issue of Gas Pipeline Regulations; suggests that implementation of stipulations be assigned to NEB
	30859-60			Thompson	CARC	Implementation authority independent of NEB, but with structure that integrates NEB's supervisory functions
	30912-26			Steeves Skinnarland Thompson	CAGPL	Written evidence prepared, approved and filed with NEB; arguments over competence of NEB to manage authority
200	31621-23	Nov.15		Berger Scott	MVPI	Ability to function as a geotechnical review board
	31705-07			Genest	CAGPL	Nucleus of a regulatory agency should be NEB
202	31978	Nov.17		Bayly	COPE/ITC	NEB actions in Manitoba Hydro Project
203	32199	Nov.18		Veale	CYI	Inappropriate agency to monitor northern development

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150	22941-64	May 4	YK	Kurszewski	NWT IB/MA	Local elections; government structures; native participation
	22973-79			Bean	NWT IB/MA	Municipal structures
	22983-85			Bean		Increased non-native population, greater problems with replacement by Dene system
	23008-10			Cheezie	NWT IB/MA	Town council elections, Fort Smith; native incomprehension of voting requirements
	23014-18			Bean		Structure of local political organizations for Dene, non-Dene
	23028-29			Bean		Funding supplied by outside sources
C-48	4678-80	Apr. 30	FS	G. Kurszewski	Citizen	Natives are not consulted even on local issues; must be community decision for development
C-63	7162-63	June 1	MTL	Penn	Citizen	Development of local governments in northern Quebec communities
159	24358-67	July 7	YK	Sigler	NWT AM	Municipal governments, budgeting systems, Alaska; borough structure, relationship to community councils; labour shortage due to Alyeska pipeline
	24380-81			Boorkman	CAGPL	Alaska, financing of municipal police forces
	24413-52			Boorkman		Revenue sources, municipalities; long-term municipal financing; impact assistance
165	25590	July 19		MacLeod	Foothills	Local governments in corridor will require: financing assistance for water and sewage lateral distribution systems, street extensions; revenues to increase availability of serviced lands; resources for recreational outlets
167	25904	July 21		Usher	COPE/ITC	Communities, unclear division among several councils
169	26230	July 23		Stanley	NWT IB/MA	Oglala Indians, Pine Ridge, imposition of alien form

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172	26767-91	Aug 18	YK	McDiarmid	Citizen (COPE/ITC)	Development of self government at local level, NWT; indigenous participation key issue to development.
	26811-17			McDiarmid		Developing municipal structures, administration, communities should be able to choose their own model of government.
182	28387	Sept 9		Clarke	COPE	Territorial Employment Record and Information System, survey of employment around Inuvik; Municipal Affairs Division, community budgeting; Town Planning and Lands, co-ordination of community plans
183	28406-07	Sept 10		Clarke		Municipals control of land, zoning and building by-laws, sales agreements
188	29203	Sept 21		Neakok	COPE	Creation of North Slope Borough in Alaska
	59210-12			Neakok		Development of local government in North Slope Borough; Local Boundary Commission
	29289-302			Hill	NWT/AM	Development of northern local government, community participation and involvement; dates for local governments in Mackenzie communities; formation of NWT Association of Municipalities; function of local government; problems of interrelated levels of government in NWT
189	29308-10	Sept 22		Hill		Interest in social and economic progress; modifications to local government system suggested
	29312-21			Bayly Hill	COPE/ITC	Becoming various levels of local government based on tax assessment; settlement as a training stage; decision of residents to have local government; responsibility of elected Community Councils
189A	29526-30			Berger Buchholdt R. Worl	COPE COPE	Borough Government in Alaska, Barrow's village council, eligibility to vote, role of pipeline population in voting; members of North Slope Borough government and Board of Directors
	29532-35			Sigler Neakok	NWT/AM COPE	Organization of North Slope Borough, Borough Council; residency requirements for voting in Borough
	29542-49			Mrs. Worl Buchholdt R. Worl	COPE	Voting in rural communities and urban populations, explaining instructions and procedures to vote; adaptation of natives to corporate model; organization of corporations, purpose
	29553-54			Scott Buchholdt	MVPI COPE	Interaction of Corporation Borough and voting patterns; in-migration of workers make natives a minority
202	31928	Nov.17		Bayly	COPE/ITC	Linking of local responsibility to size and tax base must change
204	32312-16	Nov.19		Parker	NWT Govt	Problem of meeting needs of communities, representation on councils; development of settlement and hamlet councils; guaranteed availability of funds to communities from NWT government

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53	7253-54	Aug. 13	WH	Wah-Shee	NWT IB/MA	Increased gas supplies to other provinces
95	14377	Dec. 3	YK	Banfield	CAGPL	Provinces of Alberta, Ontario, Environmental Assessment Act of Ontario
	14379			Banfield		Ontario hydro transmission lines; Environmental Assessment Board
102	15605	Dec. 12		Peterson	CARC	British Columbia, ecological reserves legislation; Forest Service proposing ecological sites
108	16420-21	Jan. 13		Berger Gourdeau	EPB	Mr. Gourdeau's position of Director General of New Quebec
111	16969-75	Jan. 16		Davies	MVPI	Environmental impact assessment process in Ontario; differences from federal system; assessment report, impact statement

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111	16987-93	Jan. 16	YK	Davies	MVPI	Trend in Ontario, analysis of environmental impact, rating system; in-house review, Ontario Ministry of Transport; use of several appraisal teams
C-26	2660	Sept. 9	FS	P. Nahanni	Citizen	Alberta government re: resources made available to Canadian consumers
	2707			Lamothe	Citizen	Alberta Metis colonies re: provincial administration
C-32	3041-49	Oct. 8	FR	Slavic	Citizen	Indian Association of Alberta request for native townsite at Syncrude Tar Sands, funding, training programs; native development company, funding; frustration of natives to participate in development
114	17325	Jan.22	IN	Bayly	COPE/ITC	Alberta requires alternative sites for gas plants in applications
119	18180	Jan.28		Shaw	COPE	Energy Resources Conservation Board of Alberta
146	22253-54	Apr.27	YK	McCullum	NWT IB/MA	Quebec, committed to James Bay project proceeding
	22281-310			Richardson	NWT IB/MA	Province of Quebec building James Bay hydro project; federal government pressure to start negotiations with native people; negotiations over native land claims
	22316			Young	NWT IB/MA	Manitoba, quotations from Manitoba Cabinet, Minister of Mines, Resources and Environmental Management
147	22381-85	Apr.28		Jones	NWT IB/MA	Opinion on government participation, fish cannery at Port Edward, B.C.
	22403			Page	NWT IB/MA	Basis of negotiations leading to creation of Manitoba
	22412-17			Richardson		Reluctance of Quebec government to allow Cree to choose land designated for development, James Bay Project
	22432			Richardson		Native employment unwillingness, Manitoba Hydro, Quebec department of labor, hiring practises for James Bay
	22467-69			Young		Manitoba, natives not prepared to accept funding to negotiate land claim settlements
	22735-36			Asch	NWT IB/MA	Province of Alberta, attempting to find means to ensure high standards of living after depletion of non-renewable resources
C-51	5130-33	May12	VAN	H. Crosby	Citizen	NWT should have provincial status
C-52	5268-69	May13	CAL	Chief Snow	Citizen	Refusal of Alberta to set aside land, Big Horn Band of Stoneys
	5280-81			Chief Snow		Alberta Heritage Fund
C-53	5427-35	May14	CAL	Getty	Citizen	Land claims to be respected if Big Horn people proved ownership, Alberta government did not carry through first decision
	5528			Nickle	Citizen	Alberta government setting aside revenues from resources for future use
C-54	5584	May17	EDM	Cavanagh	Citizen	Government should provide assistance to fast growth area
	5637-4			Swift	Citizen	Alberta Government set up inquiry to examine oil spill on the Athabasca River
	5722-32			Robertson	Citizen	Failure of the Province of Alberta to submit analysis on the effect of the pipeline
C-55	5773	May18		J. Barry	Citizen	Apprentice and Tradesman Qualification Branch
	5889-905			H. Cardinal	Citizen	Athabasca Tar Sands development; Alberta Department of Advanced Education, training for native people; proposed pilot project, Treaty Indian Training Corporation; Provincial Department of Manpower
C-56	6101-02	May19	REG	F. Tompkins	Citizen	Saskatchewan, funding of public participation, Churchill River projects
	6111			C. Alexander	Citizen	Need for provincial style government, northern Canada
C-57	6263-64	May20	WINN	B. Teixeira	Citizen	Conflicts between Manitoba Government and Federal Government, limits of jurisdiction
155-A	23887-89	June 30	YK	Hollingworth	Foothills	Using Alberta as example, beneficiaries of royalties
	23892-93			Jelliss	NWT IB/MA	People of BC, as those of NWT, not receiving direct benefits from natural resource production, unlike American consumers

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C-59	6410-15	May 26	TOR	N. Zlotkin	Citizen	Mercury contamination , Northern Ontario, no response to native demands for compensation
C-62	6893-905	May 31	MTL	Gaccia	Citizen	James Bay natives put forth proposals to Quebec government
	6917-18			Delisle	Citizen	Dene having to receive permission and approval from government of Quebec, James Bay, for hunting, trapping, fishing, housing, education
C-63	6991	June 1		Barbeau	Citizen	Quebec government has endeavoured to establish an energy plan to make the most efficient use of their energy supplies
C-64	7329	June 3	OTT	Edmonds	Citizen	Labrador government
C-66	7636-37	June 7	CH	J. Butler	Citizen	PEI, development program, effect on economy
176	27465-66	Aug 24	YK	Robinson	COPE/ITC	Quebec, consequences of Bill 22, education St. Leonard.
181	28123	Sept. 8		Reimer	MVPI	Alberta, praising Premier Manning's control of development
	28127-28			Reimer		Alberta, Saskatchewan, how changing tax structures affect development

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C-22	2287-88	Aug.11	WH	A.Netherton	Citizen	Impact in Whitehorse of Alaska Highway; economic effects
	2292-93			O.Posiwaschek	Citizen	Difficulty of building in Whitehorse
71	10668	Oct.14	YK	Bayly Longlitz	COPE/ITC MVPI	Land use permits; contact with territorial governments
72	10696	Oct.15		Bayly Longlitz		Input of Territorial council into changes and approval of land use regulations
	10737-38			Goudge Longlitz	MVPI	Block land transfers; administration by territorial government; community land use
74	11008	Oct.17		Williams	CAGPL	Snow road from Trout Lake; D.P.W. of Northwest Territories opening a winter road; surface disturbance
85	12724-25	Nov. 12		Scott Williams	MVPI	Territorial Water Board regulates water crossings
98	14990-91	Dec. 8		Scott		Limited game management resources
99	15049-101	Dec. 9		Scott Hemstock	CAGPL	Archaeological salvage proposals, adoption by government
	15147-77			Environmental panel	Foothills	Bodies, regulating construction of pipeline
100	15249	Dec. 10		Bouckhout	Foothills	Consultation with NWT Fish and Wildlife Service re game management plan
101	15399	Dec. 11		Finney	Foothills	NWT Game Branch; need for better records re: bird kill
	15411			Peterson	CARC	Territorial Government input into E-S Program
102	15616-20	Dec. 12		Novakowski		Territorial Land Use Regulations don't relate specifically to wildlife; NWT Game Ordinance; Yukon Territory Game Ordinance
107	16321	Jan. 12		Craik	EPB	Desire by EPB for the Territorial government departments to resume post-construction monitoring
110	16829-30	Jan. 15		Calef Bergerud	CARC CARC	Federal government versus the Territorial government re: management of the Porcupine herd
C-24	2446-47	Aug. 23	NB	H. Deneron	Citizen	Land use permits; consultations with communities; establishment of Nahanni National Park boundaries; Cadillac Mines
	2454			Father Mary	Citizen	Towns run by the Territorial Government re: twice the expense on everything for a few families
C-34	3375-78	Oct. 16	YK	Nickerson Mirosh Workman Berger	Citizen Foothills CAGPL	Tax on pipeline

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C-35	3402	Oct. 22	LI	Wheeler	Citizen	Native's desire to hear Territorial plans for handling social problems
	3426			Berger		MVPI grant to NWT Chamber of Commerce re: study on northern business capabilities
	3477	Jan. 28	In.	Stewart	Citizen	Government functioning debt in NWT, Yukon
C-38	3646-47	Feb.12		Berger		Applicant tax payments to Government re gas revenue from United States
	3690-91			McNeely	Citizen	Failure to provide leadership
142	21540-41	Apr.13	YK	Virtue	NORTRAN	Government contributions to the Nortran program
143-A	21856-57	Apr.14		Russell	NWT IB/MA	Varying government arrangements; question of conflict with the Dene Declaration
C-55	5939-41	May18	EDM	B. Carell	Citizen	Need for provincial status
155-A	23886	June 30	YK	Jelliss	NWT IB/MA	Revenues from mining, oil and gas industries
156	23973-75	July 1		Gillie	NWT IB/MA	School in Rae under Territorial government then turned over to local organization
C-77	8392-93	Aug. 26	DET	J. Tobie	Citizen	Establishment of; do not consult Dene
176	27416-2 2	Aug 24	YK	Robinson	COPE/ITC	Control of education, no native involvement, upcoming revised ordinance on control of education.
	27434-3 6			Robinson		Control of education, question of elected member's knowledge.
	27444-45			Robinson		Role in education of community schools.
	27451-53			Robinson		Consulting role in education; living up to southern standards.
177	27544-	Aug 25		Galloway	NWT/AM	Encouraging snow as insulator
	27554			Purdy	NWT/AM	Functions of Fire Marshall, also chief of safety for government of NWT.
178	27674-79	Aug 26		Runge	MVPI	Public housing, social housing requirement, subsidies, shortages, construction.
	27717-23			Runge		Social Assistance Housing Program, supply of stock, calculations of population growth.
179	27726-31	Aug 27		Runge		Formation of NWT Housing Corporation; programs
	27736-39			Runge		NWT Housing Corporation, rental programs, collection rates from dwellers
	27752-54			Runge		NWT Housing Corporation, provision of homes, shortages, costs
	27757-58			Runge		NWT Housing Corporation, problem of competing for labour with pipeline, wages
	27760-65			Runge	MVPI	Relationship with communities, town planning, need for central authority but retain community control funding
	27769-70			Runge		Instructed NWT Housing Corporation to investigate home ownership plans
	27817			Berger Runge		NWT Housing Corporation, policy of home ownership
181	28198-202	Sept 8		Breckenridge	MVPI	Need provincial status, more control over destiny
	28206-07			Breckenridge		Health services paid by Government, Question of who pays costs of increase demand due to population influx
185	28643-48	Sept 15		Noble	COPE	Responsibility for health services divided between Federal and Territorial governments; attempts to make Territorial government responsible only; consultation with native people a concern
	28794-96			Schaefer Hildes	COPE COPE	Medical care, prerequisites for transfer of jurisdictions
200	31690-91	Nov.15		Genest	CAGPL	Share in project-related revenues
	31703-05			Genest		Governments should participate in monitoring

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XXVI	3085-87	Apr. 9	YK	Scott	MVPI	Letter from S.M. Hodgson
XXXVI	4660	May 12		Lucas	CARC	Employees' participation in Inquiry
XXXVII	4766-69	May 13		Bayly	COPE/ITC	Territorial/federal jurisdiction over labour regulations
XXXVIII	4873-74	May 14		Williams	CAGPL	Land use permits
C-1	33-43	Apr. 2	Aklavik	Bayly Berger		Statement of government on its employees ability to testify at the hearing
C-4	267-272	May 28	Hay River	Lantz	Citizen	NWT Commissioner; control of resources
C-5	385-389	May 29		Tetrault	Citizen	Need bonding mechanism for businessmen
C-10	874-82	June 27	F.N.	P. Andrew	Citizen	Education programs, cultural impact
	933-41			J. McEwen	Citizen	Position of Settlement Manager; resentment by local people
C-12	1094-97	July 9	F. McP.	J. Itsi	Citizen	Oil spills, notification
C-13	1254-56	July 10		J. Itsi	Citizen	Need recreation hall in Fort McPherson
C-16	1701-04	July 16	F.L.	J. Bonnetrouge	Citizen	Public Health Department, Town Planning
56	7837	Aug. 18	YK	Horte	CAGPL	Consultation by CAGPL as to plans for tourism and recreation
53	7124-25	Aug. 13	WH	Trusty	CAGPL	Strain on services to communities
C-18	1808	Aug. 5	FGH	A. Wilson	Citizen	Powers of the NWT Gov
C-19	1861-70	Aug. 6		J. Louison	Citizen	Gov't. handling of land use permits. Telegram from Commissioner Hodgson
C-20	1924-25	Aug. 7		N. Kakfwi	Citizen	Story re illegal hunting by Game Superintendent
	1934			Carter	CAGPL	Application to Commissioner re land use permits at Fort Good Hope
	2018			F. Barnaby	Citizen	Government programs a destructive influence
C-21	2107	Aug. 9	NW	G. Loomis	Chamber of Commerce	Government should prepare for pipeline
	2154-57			G. Loomis	Citizen	Inaction to land shortage, Norman Wells
	2174-77			R. Yakeleya	Citizen	Conflict between native self-government & territorial gov't. system
	2182			R. Sinotte	Citizen	Study group with federal gov't. of local industry in pipeline project
	2213-14			W. Fraser	Citizen	Failure of government economic loan program for natives
C-22	2238	Aug. 11	WH	A. Wright	Citizen	Support necessary for pipeline
	2250-53			T. Nairn	Citizen	Responsibility for fire prevention along pipeline, in camps
	2275-80			V. Jutronich	Citizen	Decisions re Dempster, Skagway & hydro dam construction
63	9038	Sept. 17	YK	Lazerte	Foothills	Water Resources Branch - water quality of wells drilled in permafrost
94	14328-29	Dec. 2		Gunn	CAGPL	Need to examine the control of access; human disturbance
103	15731	Dec. 15		Stein	CARC	Fisheries Regulations - notification and enforcement re: pipeline personnel
	15789			Millen	CARC	Witness' background
	15795-96			Millen		Fisheries Act Regulations re: fish protection
104	15903	Dec. 16		Stein		Logging of fish catch from Cache River by Fisheries Service Official
105	16103-06	Dec. 17		Ryder	MVPI	Guidelines for protection of fish resources re: highway construction and operation, gravel removal regulations
108	16416-18	Jan. 13		Gourdeau	EPB	Use of hunting and trapping statistics based on general hunting licences and a survey carried out by the NWT government
C-25	2507-08	Sept. 8	FS	Black	Citizen	Establishment of operational procedures between local/Territorial Governments
	2541-44			A. Lamothe	Citizen	Abdication of responsibilities of planning future development of NWT re: resource utilization
	2561-67			Ivans	F.S. Council	Recognition of Fort Simpson governing body, NWT Heritage Fund; NWT government spending; land value, cultural impact
C-26	2652-53	Sept. 9		Paullette	Citizen	Department of Economic Development re: encouragement of natives to work in white system, deprivation of rights

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C-26	2704 2707	Sept. 9	FS	Lamothe Lamothe	Citizen	Social development re: self sufficient Inuit people Employees cut back re: inflation
C-28	2780	Sept. 10	Wr	H. Hardisty	Citizen	Disputes with Wrigley
C-29	2856-57	Sept. 12	JMR	Norwegian	Citizen	Frustration with government re: access road from JMR to Mackenzie Highway
C-30	2890-91 2903-05	Oct. 6	PP	Osing McConnell Osing	Citizen Citizen	Housing ownership; training program re: skilled labour Housing for native people
C-31	2998 2999-3004	Oct. 7	FR	Stevenson Morin	Citizen Citizen	House building, tenant, field worker programs House ownership legislation, applications for training programs, Pine Point Mines - dictation of NWT Government
C-32	3037 3063	Oct. 8	FR	Orbell McConnell	Citizen Citizen	Department of Economic Development re: Slave River Sawmill Pine Point management and Territorial Government re: training program
C-33	3103	Oct. 9	FS	Evans	Citizen	Monitoring committee re: contractors
C-39	3706-07 3718-19 3721	Feb.18	IN	Robertson Hill Hill	Citizen Citizen	Inuvik wants a portion of taxation on fixed assets ; in ability of Territorial Government to fund Half-way House in Inuvik Dual lifestyle policy for northerners; social and economic aspects of MVPI report directed to NWT Legislative Assembly Mackenzie Valley Pipeline Authority composed of members of NWT Legislative Assembly and Mackenzie Valley Community Councils
113	17232-36	Jan.21		Hobart	GPC-D	Dept. of Social Development,welfare, health etc. payments in Coppermine
114	17386	Jan.22		Hollingworth	Foothills	Has scheme for sawmill at Fort Simpson to make pilings
115	17504-05	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, obtaining land use permits
116	17646-47	Jan.24		Rempel	GPC-D-I	F.F. Slaney and Company environmental program reviewed with Government of the Northwest Territories
117	17773 17901-02 17906	Jan.26		Webb Wopnford Berger Berger Bayly	GPC-D GPC-D-S COPE/ITC	Regulations to control fishing in Yaya Lake Definition of a "northerner" Employment of natives, unsuccessful
122	18550	Feb.11		Stirling	COPE/ITC	Need to conduct P.C.B. studies on seals, polar bears
123	18734-51 18796	Feb.12		Yates Elkin Elkin	MVPI MVPI	Definition of regional planning approach employed in Mackenzie Delta Participation in socio-economic regional assessment
125	19115-18	Feb.14		Pettigrew	COPE/ITC	Formation of Emergency Control Committee
129	19689-90	Feb.19		Inglis	MVPI	Inuvik gravel requirements, if development
136	20692-96 20721	Mar.26	YK	Peet Peet	MVPI	NWT regulations governing fisheries Development of Holmes Creek fishery by economic development department
137	20898-914	Apr.5		Simmons	MVPI	Historical sketch of Fish and Wildlife Service; development of agency to meet demands; NWT act and NWT Game Ordinance, define wildlife management
142	21551-52 21560-62	Apr.13		Giroux Virtue Bayly	NORTRAN NORTRAN COPE/ITC	Assistance with Nortran program Manpower Delivery System; Nortran program

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143	21821-23	Apr.14	YK	Fumoleau	NWT IB/MA	Establishment of government in 1905, but no council until 1921; administration headquarters
	21831-35			Fumoleau		Question of federal or territorial control of game management
144	21929-30	Apr.15		Sanders	NWT IB/MA	Department of Local Government, roles of Indian Band Councils, Settlement Councils
	22004-09			Barnaby	NWT IB/MA	Territorial Council, native role; official council support for the pipeline
	22027-55			Bean	NWT IB/MA	Territorial Department of Local Government; growth of local government, native participation and representation
	22059-66			Bean		Pipeline will mean increased bureaucracy; NWT government as a colonial institution
	22072-74			Barnaby		Failings of the Territorial Government; Dene priorities for territorial government
145	22161-64	Apr.26		Smith Rolfe Brownstone	NWT IB/MA NWT IB/MA NWT IB/MA	Native participation in the Territorial Council; comparison with Brazil
	22185-86			Clarke	NWT IB/MA	Native participation in the Territorial Council
147	22496	Apr.28		Nahanni	NWT IB/MA	Used material from NWT government for the Land Use and Occupancy Research
148	22557-59	Apr.29		Nahanni		Incentive grants to trappers
	22568-74			Nahanni		Territorial incentive program to supplement income of trappers during times of low fur prices
	22605			Nahanni		Trappers incentive program, not considered adequate
	22638			Rushforth	NWT IB/MA	Caribou hunts supported by Game Management, Government of N.W.T.
	22692-94			Asch	NWT IB/MA	Resolution by the Territorial Council, 1956, to ask government to provide assistance to fur trappers, government acted by favoring economic development
149	22798-99	May 3		Ritter	NWT IB/MA	Program to develop curriculum for use in schools, NWT
150	22980	May 4		Bean	NWT IB/MA	Administration has responsibility for people of the north
	22986-91			Bean		Policy on tax collection in communities
	22973-77			Sigler	NWT AM	No consideration given to philosophy paper by Bean
	23034-30			Bean		Territorial Council; suggested 10-year residency rule
C-40	3863-64	Feb.23	AK	Greenland	Citizen	Delta Regional Planning Committee formed with Federal Government, pressure on natives
C-51	5129-33	May12	VAN	H. Crosby	Citizen	NWT should have provincial status
156		July 1	YK	Yazzie	NWT IB/MA	Transfer of educational jurisdiction from Federal Government to Territorial without Dene consultation
C-63	7185	June 1	MTL	Paulette	NWT IB/MA	Not the government of Dene
159	24355-56	July 7	YK	Trusty	CAGPL	Control of development, discouragement of in-migration; major initiator, customer for housing
162	25030-31	July 13		Hollands Goudge	CAGPL MVPI	Territorial Employment Record Information Service (Teris), information bank
	25081-84			Trusty		Department of Economic Development, proposed economic liaison group with CAGPL
165	25531	July 19		Jensen	Foothills	Costs of education absorbed by Territorial Government, largest single budgetary expenditure
167	25918-19	July 21		Usher	COPE/ITC	Relationship with local business; disturbed by native land claims
	25938-52			Beakhust	COPE/ITC	Establishment of Territorial Council, 1921; changes in Council Structure, composition, financial control remains in Ottawa
168	26162-64	July 22		Brody	COPE/ITC	Commissioner, cut off liquor supply to Pond Inlet; forced to reverse decision
	26192-93			Brody		Issuing licences for research in communities
	26198-99			Brody		Outpost program, support for those who wish to return to the land

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181	28135-36	Sept. 8	YK	Reimer Mitchell	MVPI MVPI	Need for own labour code
187	29016	Sept. 17		Bruce	COPE	Philosophy behind alcohol availability must be re-examined
188	29120	Sept. 21		Searle	MVPI	Development of responsible government; Legislative Assembly, representative of people in NWT
	29132-50			Scott Searle	MVPI	Opinions of Council represented in resolutions favouring pipeline construction; transfer of responsibilities to Territorial government - health, justice; position of Council re Mackenzie Valley Pipeline Authority
189	29259-68	Sept. 22		Lafferty	NWT/AM	Territorial budget, negotiating for federal funds; new financial arrangement between Federal and Territorial government; budget allocation by NWT Executive Committee; constituency reserve
	29296-305			Hill	NWT/AM	Political process short of provincehood; Legislative Assembly; budget of Territorial administration; expenditures on local government programs; key to self-government in NWT is financial control
	29366-76			Smith	NWT/AM	Function of property assessment and taxation; history of assessment in NWT: authorization for assessing, levying and collecting property taxes; land assessments; improvement or building assessment; assessment appeals; municipal and school taxes; grants in lieu of taxes; proposed pipeline taxes; additional municipal tax revenues, manpower requirements
	29377-83			MacLeod	NWT/AM	Composition, functions and responsibilities of Municipal Affairs Division
190	29576-84	Sept. 23		Ganske	NWT/AM	Town Planning and Lands Division of Department of Local Government, responsibilities; "Block Land Transfers"; Municipal Land Policy, disposal of public lands; planning program for delta communities
194	30282-84	Oct. 6		Butters	NWT/AM	Comparison of NWT Act relative to Canadian constitution needed to determine powers of NWT Government
197	30982-87	Oct. 13		Bergasse	MVPI	Stated goals of NWT government, relating to economic development; programs of Department of Economic Development and Tourism; role in identifying entrepreneurial opportunities related to pipeline
	31010-16			Bergasse		Completion date of review of departmental programs; lead time for proposed projects; relationship between projects and schedules of CAGPL and Foothills; consultation with communities about projects
198	31195-97	Oct. 14		Sterling	MVPI	Amendment of Fair Practices Ordinance to permit affirmative action programs in NWT
	31201-09			Witty	MVPI	Responsibilities of Employment Division, Department of Economic Development; genesis of division
	31291-92			Carnew	MVPI	Relationship between Continuing Special Education Division, Employment Division, and Canada Manpower; relationship with Department of Social Development and Northern Health Services
	31388-90			Witty		Short-term Employment Program (STEP) operated by Employment Division; penalty for refusing to work if given an opportunity
204	32303-48	Nov. 19		Parker	NWT Govt	Final argument

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XIX	2128-29	Mar. 17	YK	Genest	CAGPL	Trapping, Old Crow area
C-16	1612-14	July. 13	O.C.	B. Stager	CITIZEN	Department of Local Government
51	6753-60	Aug. 11	WH	Smith	GOV'T YUKON	Government programs, aims and success
53	7189-90	Aug. 13		Joe	CYI	Incompatibility of employment incentives and social programs with native values

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55	7626-27	Aug.15	WH	Morian	CARC	Territorial government of the Yukon Territory has jurisdiction over all the Yukon archaeological sites through the Archaeological Sites Regulations Yukon Act
94	14327-28	Dec.2	YK	Jakimchuk	CAGPL	Need for wildlife mangement, Yukon Territorial Game Branch, research needed, Dempster Highway effects
96	14569-71	Dec.4		Jakimchuk Veale	CYI	Game branch of the Yukon; sports kill from the Dempster
	14595-606			Jakimchuk		Expressed desire for the Yukon Territory Game Branch to undertake a study with C.W.S. on the impact of the Dempster on caribou herds
105	16104-06	Dec.17		Ryder	MVPI	Gravel removal restrictions, control
110	16863-65	Jan.15		Bergerud Calef	CARC CARC	Federal government versus Yukon government to manage the Porcupine herd; non-uniformity of hunting laws
137	20880-83	Apr.5		Mossop	MVPI	Yukon Game Branch, wildlife management
149	22798	May 3		Ritter	NWT IB/MA	Work on development of curriculum sponsored by the Department of Education
151	23058	May 5		Irving	CYI	Partial destruction of the Klo-Kut archaeological site by a winter road; previous assurances from territorial engineer that this would not take place
	23108-12			Cruikshank	CYI	Territorial school system
	23144-45			Johns	CYI	Takeover of land, Tagish area
153	23428-29	May 7		Sharp	CYI	Department of Vocation Education set up prospector training program in Ross River
	23455-57			Sharp		Social changes created by housing provided by DIAND and Territorial government
	23517			Sharp		Territorial government Vocational School, Prospector training program
192	30033-34	Oct. 4		Ritter	MVPI	Money for French language instruction in Yukon
198	31373-74	Oct.14		Sterling Forth	MVPI MVPI	Transfer of employment of northerners functions to territorial government

GROUND WATER

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XIX	2181 2186-89 2220-21	Mar.17	YK	Clark	CAGPL	Icings Frost heave; ice lenses Chick Lake ground water study; flow measurements
XX	2394	Mar.18		Clark		Icings at river crossings; use of culverts to carry water through frost bulb
XXI	2481-86	Mar.19		Clark		Transfer of surface water and prevent erosion of spoil mound techniques: diversion dyke, granular protection face, granular cap, gravel rip-rap, gabion, ditch plug, impervious plugs
XXII	2567-73 2595-2616	Mar.20		Slusarchuk Clark Slusarchuk	CAGPL	Relation to frost heave, Calgary test facility, frost bulb Sub-surface drainage around frost bulb, insulation, icing, berm break, melting and freezing
XXIII	2725-27	Mar.21		Clark		Environmental impact of frost barrier wall, erosion
XXIV	2821-27	Apr.7		Clark		Ditch plugs to prevent flow and erosion, ground water regime, freezing
XXVI	3152-53 3159-65 3202-05 3235-36 3267-75	Apr.9		Clark Slusarchuk Scott Slusarchuk Scott Clark	MVPI	Sub-surface drainage, pipe through Templeton wall Water table in speckled bog McKay - icy sediments Calgary test site, water table as affects frost-susceptible soil- ice lenses, frost bulb, artesian water, tilted pipeline Aquifer, Templeton wall, frost bulb, drainage, discontinuous permafrost, ice lenses, driving gradients, thermo-gradients, Gibbs free energy
XXVII	3365	Apr.10		Slusarchuk		Drainage, erosion, permafrost degradation
XXVIII	3443-49 3452-55	Apr.11		Scott Cooper Cooper	CAGPL	Percolation below river bed, summer Seepage, icing

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XXVIII	3462-63	Apr.11	YK	Scott Clark	MVPI CAGPL	River crossings, aquifers, icings
	3476-80			Clark Hollingshead Cooper	CAGPL CAGPL	Drainage on slopes, freezing ground water pingoes
	3493-96			Clark		Fish overwintering areas, deep springs/shallow aquifers
	3555-57	Apr.11		Morgenstern	CAGPL	Frozen ground, slope stability
XXIX	3565	Apr.14		Marshall	CAGPL	Sub-surface flow around chilled pipeline
XXXIX	5082-88	May 15		Williams	CAGPL	Drainage and erosion - maintain flow for aquatic life
	42	May 21		Fielder	CAGPL	Spring run-off, berm failures
	45	May 24		Horte	CAGPL	Gas cap gas, trapped with water
	46	June 2		Craik	EPB	Hydrological studies report #2 appendix IV
	47	June 3		Adam	EPB	Drainage problems
61A	8733-55	Sept.15		Glockner	Foothills	Melting ice lenses; frost bulb; pipe soil interface; swamps; pipe buoyancy; wash-out and soil disappearance; buoyancy pressures; fluid medium
64	9434	Sept.18		Spafford	Foothills	Gauging of ground water discharge of Great Bear & Mackenzie Rivers
65	9538-47	Sept.19		Hwang	Foothills	Role of water table level in frost heave
	9555-86			Claridge	Foothills	Flow studied in 2 sample areas
	9590-92			Claridge		Amount of free water ponded in slide studies
69	10384	Sept.25		Owen	MVPI	Pointed Mountain Pipeline; location in ice lenses and sandy gravel; trench filled with water
70	10518-23	Sept.26		Owen	MVPI	Pointed Mountain Pipeline; swampy ground; ponding; stream channeling; ice lenses
	10576-70			Lewis	MVPI	Snow melt induced spring floods; hydrologic regime; rain storm floods; design flows for pipeline construction
72	10747-57	Oct.15		Lewis		Water flow through discontinuous permafrost; underground rivers; sub surface hydraulic gradients; culverts; flow under the river through the soil
	10798-812			Adam	EPB	Ground ice, frozen materials; thaw settlement; discontinuous permafrost areas; Willowlake River; erosion; snow roads
73	10839-970	Oct.16		Frost Heave Panel	CAGPL	Soil expansion; freezing soil; unfrozen water flows; rate of water flow into freezing soil; shut off pressure
76	11225-28	Oct.21		Parker Weedon	CARC	Petroleum spills; entrance into the ground water; effect on frost bulb; water quality
	11310-34			Hughes	CARC	Ice lenses, frozen soils, sinuous depressions and slow movement of water through the system
78	11625-65			Minning	CAGPL	Drainage, frost heave, ground ice, temperature and rates of ground water movement; frost bulbs; soil type, pipeline design; chilled pipeline
79	11697	Nov.3		Minning		Development of fossil flood plains for borrow dependent on ground water and ice content
	11732-43			Harlan	CAGPL	Icings
80	11807-20	Nov.4		Harlan		Flow in active layer in ground above pipe; prevention of drainage by backfill; spacing of mound breaks
	11843-47			Harlan		Factors in classification of erodibility rating
81	11972-88	Nov.5		Clark Harlan	CAGPL CAGPL	Effects of ponding and icing; ice lenses
	12094-114			Harlan		Use of groundwater - environmental impact
82	12177-88	Nov.6		Williams Harlan	CAGPL	Disruption of subsurface flow by frost bulb in Old Crow flats
	12189-92			Harlan McCart	CAGPL	Groundwater sources along interior route
84	12533	Nov. 8		Anthony Environmental Panel	CARC CAGPL	Sub-riverbed flow, North Slope rivers; insulated pipe, culverts
	12559-70			Anthony McCart Hemstock	CAGPL	Springs as water source, North Slope; effects of withdrawal; importance to fish; CAGPL guidelines
85	12645-60	Nov. 12		Bayly Harlan McCart	COPE/ITC	Interruption by river crossings, North Slope, fish impact

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85A	12742	Nov. 12	YK	McCart	CAGPL	Groundwater source for lake near Oscar Creek
88-A	13387-88	Nov. 17		McCart		Interruption of sub-surface drainage
100	15308-10	Dec. 10		Hayden	Foothills	Culverts under pipe to continue flow; experiments
	15368-69			Whitney	Foothills	Changing groundwater patterns, Mackenzie Bison Sanctuary
101	15462	Dec. 11		Zoltai	CARC	Areas of high ground water activity should be avoided
	15474-505			Zoltai		Creating hazardous conditions for construction; western flank, Franklin Mountains; icings formation, groundwater melting icings; further research; spring near Firth River, water use
	15535-41			Zoltai		Disruption by chilled pipe, north and south of Willowlake River, Norman Wells
104	15949-50	Dec. 16		Steigenberger	CARC	Ground water freezing - re: natural impact on domestic fisheries
105	16036-52	Dec. 17		Steigenberger		Inadequate supply on North Slope for construction; Fish Creek
	16080-81			Steigenberger		Sedimentation, effects on fish; extent of ground water sources on North Slope
201	31779-80	Nov.16		Marshall	CAGPL	Subsurface flow of North Slope rivers

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XVI	1854-58	Mar.12	YK	Dau	CAGPL	
	1869-71			Berger		Re Corridor concept, cross-delta route change
XVII	1892-95	Mar.13		Anthony	CARC	Route selection
XXXVII	4766	May 13		Bayly	COPE/ITC	Working conditions
43	5707-08	May 22		Horte	CAGPL	Onus of proof, prediction of environmental impact
44	5728-29	May 23		Genest	CAGPL	P.5, monitoring service set up by government
	5872-76			Scott	MVPI	Applicant's responsibility
46	6097-6101	June 2		Berger		Assume if gas pipeline built, oil line will follow
48	6321	June 4		Craik	EPB	Fills gap but environmental law still needed
49	6546-74	June 5		Horte		Route decided before guidelines issued
C-1	2	Apr.2	Aklavik	Berger		Set out by the federal government
C-5	348-350	May 29	Hay River	E.Dean	Citizen	Social, economic consequences, p.25
	418-421			Berger		Employment on the pipeline
C-16	1571-72	July 13	O.C.	H. Richter	Citizen	Social guidelines, protection of the rights of northern residents
58	8176	Aug. 20	YK	Blair	Foothills	Foothills following of the 1972 guidelines
59	8306-08	Aug. 21		Scott		Reading of expanded guidelines as set out by Cabinet and Prime Minister
52	6910-11	Aug. 12	WH	Berger		Demand for evidence on oil pipeline impact
	6965			Berger		Need for cost analyses of alternate routes by proponents
53	7057-59	Aug. 13		Berger		Ruling re CAGPL cost analyses based on guidelines
C-18	1818-19	Aug. 5	FGH	Berger		Oil pipeline to be considered during Inquiry
68	10144	Sept.24		Williams	CAGPL	Specifications given to contractors
77	11375-78	Oct.22	YK	Berger		Concept of Mackenzie corridor; alternative transportation routes
				Hollingworth	Foothills	
78	11565-67	Oct.23		Roed	CARC	Pipeline Assessment Group re: alternative routes; corridor concept
	11599-609			Berger		Expanded guidelines re: alternate corridors; Foothills compliance to guidelines
				Hollingworth		
82	12156	Nov.6		Berger		Guidelines unclear re: extent of study of alternative routes
83	12518-22	Nov. 7		Berger		Consultation of guidelines re evidence on Corridor concept
85	12702	Nov. 12		Berger		Transportation corridor may include hydro transmission lines
86	13033	Nov. 13		Berger		Working conditions, agreements
88-A	13394-97	Nov. 17		Berger		Considering impacts of highway, oil pipeline and looping

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89	13432	Nov. 18	YK	Gunn	CAGPL	Ornithologically, pipeline can conform
90	13638-70	Nov. 19		Environmental panel	CAGPL	Discussion, impact of other projects along corridor
92	13977	Nov. 21		Berger		Restriction of construction personnel from fishing
93	14088	Dec. 1		McCart	CAGPL	Monitoring programs
	14095-100			McCart		Baseline information re: information on water quality, stream flow, fish population and habitats, fish sensitivity
	14195			Gunn		Routes identified in the 1972 guidelines
94	14204-44			Gunn Banfield Hemstock McCart	CAGPL CAGPL	Identification of sensitive environmental areas
	14332-35	Dec. 1		Scott Banfield	MVPI CAGPL	Consideration of cumulative impact; Dempster and Mackenzie Highways
95	14460-62	Dec. 3		McCart	CAGPL	Consideration of potential effect of other developments, corridor concept
97	14735	Dec. 5		Templeton Hemstock	EPB CAGPL	Research to meet guideline requirements
99	15158-60	Dec. 9		Bouckhout		Foothills Including potential impact of oil pipeline in assessment
101	15418-35	Dec. 11		Peterson	CARC	General, not specific; corridors not routes; discussion of specific guidelines; input into guidelines; their purpose, i.e. as general instructions for potential applicants; designation of specific areas for avoidance under Guideline # 4
	15506-16			Peterson Scott Berger	MVPI	Corridors; criticism of Arctic Gas interpretations of guidelines; drafting; guidelines not statutes.
102	15547-59 15568-79	Dec. 12		Peterson Peterson		Developing guidelines, initial assumptions; corridors Guidelines not regulations but a checklist for applicants; compliance with guidelines
103	15759	Dec. 15		Steigenberger	CARC	Further definition of corridor concept needed re: construction demand on environment
109	16652-59	Jan. 14		McT-Cowan Berger	EPB	Guidelines 4 and 5; designation of unique and sensitive environmental areas; IBP sites; wilderness concept
	16727-29			Veale	CYI	Consideration of alternative transportation corridors; Inquiry's mandate; communities along the Fairbanks corridor
C-25	2516	Sept. 8	FS	Berger		Guidelines re: construction of second, third pipelines
	2536-38			Berger		Proposed gas, oil pipeline construction
C-27	2769-70	Sept. 10		Berger		Corridor concept gas followed by oil; difficulty of understanding guidelines
C-30	2930-31	Oct. 6	PP	Berger		Energy, transportation corridor
C-33	3146	Oct. 9	FS	Berger		Terms of reference re: hiring northerners, minority hiring
133	20196-99	Mar. 23	YK	Jakimchuk Berger	CAGPL	Guidelines lay down possibility of oil pipeline in same corridor
142	21533	Apr. 13		Virtue	NORTRAN	Opportunities for training and employment
150	23004-06	May 4		Berger		Policy document of the federal government; policy on native employment
162	25078-79	July 13		Trusty	CAGPL	Quotation re guidelines for local procurement of materials, supplies
180	27904-06	Sept. 7		Steeves Nessel	CAGPL MVPI	Pre-employment training; guideline number two: priority placement in jobs to native people
	27911-15			Nessel Hodson	MVPI	Their intention to follow guidelines, yet support no priority placement to native people; conforms with notion of employment preference
202	31914-15	Nov. 17		Bayly	COPE/ITC	Guidelines - native employment do not meet needs of native people

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C-I	8	Apr.2	Aklavik	Headpoint	Citizen	Mental health care available
C-16	1572-74 1582-83	July 13	O.C.	H. Richter H. Richter	Citizen Citizen	Crossing of social barriers, stress and tension Recently fewer strangers in Old Crow; less intrusion, stress to the people
117	17876-77	Jan. 26	IN	Bayly Wopnford	COPE/ITC GPC-D-G	Impact of project on mental health
161	24918-26	July 12	YK	Trusty	CAGPL	Personal and family counselling services; presence of psychologists, sociologists
163	25195-97	July 14		Hobart	CAGPL	Suggested psychological screening; testing of DEW Line workers
172	26730-41	Aug. 18		Dixon	MVPI	Alaska, Child abuse, neglect, children under 12 being left alone whilst parents work, need for more day care centres; 45-60% increase in psychiatric patients between 1974-75, Crisis Intervention Program
182	28239-54	Sept. 9		Forth	MHA/NWT	Organization of Canadian Mental Health Association, Mental Health, NWT, objectives, programmes; definition of mental health, impact of development on mental health in NWT; recommendations to ensure good mental health
	28256-57			Clayton	MHA/NWT	Conditions and problems of "mental illness"; effect of lifestyle and environment
	28261-63			Clayton		Importance of education policy and children's mental health
	28279-80			McCombs	MHA/NWT	Fairbanks: as community grew, tension and strain, mental health casualty rate increased
	28356-58			McCombs		Native and non-native Alaskans' differences in kind and incidence of mental health problems; problems generated during build-up to and during pipeline construction; health programs in Alaska by native non-profit corporations
184	28427-27A	Sept 14		Atcheson	COPE/ITC	Pointless task to define; evidence of deterioration of native people as result of development
	28444-45			Kehoe	COPE/ITC	Definition problems, different problems for natives
	28457-59			Kehoe		Reactive depression, reasons for lack of treatment; rapid extensive acculturation has damaging effect
	28469-70			Atcheson		Problem of understanding native people
	28485-86			Atcheson		Treating people where they live, utilize native inputs, native solution to alcohol problem
	28489-92			Sigler Atcheson	NWT/AM	Disorders peculiar to natives, effects of cultural interface, questions of validity of generalizations
	28498-500			Atcheson Kehoe		General application of analysis to all northerners
	28507-08			Atcheson		Suicide and juvenile delinquency rates as indicators
	28514-15			Atcheson		Effect of lack of economic base in community for people
	28538-42			Berger Kehoe Atcheson		Behaviour disorders going unrecognized; depression defined, pipeline will result in increased disorders
185	28642-43	Sept. 15		Noble	COPE	Facilities based on white models; involvement of natives in mental health programs needed
	28666-67			Hildes	COPE	Increase of mental health problems due to influx of southern workers and money
	28747-53			Hildes		Facilities for mentally ill in NWT; communities visited annually by psychiatric team; prevention, rehabilitation programs available in communities
189A	29492-93	Sept. 22		R. Worl	COPE	Alcohol-related suicides in Alaska
201	31856-61	Nov. 16		MacQuarrie	MHA/NWT	Positive, negative effects of pipeline development
202	31935-36	Nov. 17		Bayly	COPE/ITC	Study of Alaskan mental health care delivery system
203	32166	Nov. 18		Veale	CYI	Fast rate of social change leads to mental health disorders
204	32329	Nov. 19		Parker	NWT Govt	Mental Health Ordinance; local participation in planning for mental health programs; financing; improvement of mental health services

HEALTH CONDITIONS - PHYSICAL

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XXVI	3089-90	Apr. 9	YK	Scott	MVPI	Letter from Nurse Parker, Aklavik - drugs and diseases
C-II	143	Apr. 2	Aklavik	Ookpik	Citizen	Flu epidemic
C-9	787-88	June 26	F.F.	J. Bayah	Citizen	1927 flu epidemic
C-13	1226-34	July 10	F. McP.	K. Graham	Citizen	Alcohol problems; diseases and accidents
C-15	1446-47	July 12	O.C.	B. Allen	Citizen	Cancer among native people
C-16	1575-76	July 13		H. Richter	Citizen	New people in town, introduction of infectious diseases
53	7188	Aug. 13	WH	Joe	CYI	Epidemics in Yukon resulting from development
	7205-06			Sprecker	CYI	Strain on health facilities since Alyeska
C-19	1888	Aug. 6	FGH	Jackson	Citizen	Water quality in Ft. Good Hope
	1891			M. Heming	NHW	Concern of nurse re pipeline impact; incidence of venereal disease
C-20	1940-42	Aug. 7		M.R. Drybone	Citizen	Effects of tuberculosis on family
63	9002-07	Sept. 17	YK	Beer	Foothills	Compressor station noise; effect on personnel; permissible exposure to noise; control of noise
	9039-44			Lazerte	Foothills	Public Health Ordinance rules re distance between sewage lagoons & buildings
66	9716-18	Sept. 22		Kosten	Foothills	Danger of working in darkness, even with artificial illumination
	9730			Kosten		Opposition to start of construction in darkness
	9810-12			Kosten		Safety requirement to employ skilled & experienced machine operators
	9817-18			Kosten		Deaths in Alaska; danger of working in darkness
86	12987-88	Nov. 13		Bayly Lawrence	COPE/ITC Foothills	Sewage contamination, water, Yellowknife, Hay River
	13017-57			Williams	CAGPL	Working safety under artificial lighting, construction spreads
C-35	3435	Oct. 22	LI	Naylor	Citizen	Need for dental, nutrition programs for children
113	17228-30	Jan. 21	IN	Hobart	GPC-D	Coppermine injuries due to drinking
	17269			Hobart		Violence, illness resulting from impact on Coppermine residents of oil exploration employment
143	21835-36	Apr. 14	YK	Fumoleau	NWT IB/MA	Incidence of disease, 1920's, 1930's; low standard of health among native people
145	22177-80	Apr. 26		Draimin	NWT IB/MA	Reduction of native population in Amazon due to malnutrition, high infant mortality; high incidence of mental retardation
147	22465-466	Apr. 28		Young	NWT IB/MA	South Indian Lake, Manitoba, fear of typhoid outbreak after damming of Churchill River, anxiety over water quality for drinking
148	22661	Apr. 29		Rushforth	NWT IB/MA	Early settlement in Fort Franklin, eradication of tuberculosis by sending Bear Lake people to Edmonton, tuberculosis brought by white men
149	22821	May. 3		Simpson	NWT IB/MA	Spread of disease biharzie since building of Aswan dam, Egypt
	23113-17			Cruikshank	CYI	Epidemics of illness among native people, construction of Alaska highway
C-54	5612-17	May 17	EDM	Shirt	Citizen	Conditions created by alcohol abuse
C-55	5828-31	May 18		H. Daniels	Citizen	Very high mortality, Metis
	5915-16			P. Hayes	Citizen	Effects of environmental air pollution, Edmonton
C-59	6413-15	May 26	TOR	N. Zlotkin	Citizen	Minimata disease, mercury contamination, White Dog and Grassy Narrows reserves
C-65	7532	June 4	OTT	H.T. Schwarz	Citizen	High incidence of venereal disease in NWT
163	25200-05	July 14	YK	MacQuarrie	MHA/NWT	Inability of NWT hospitals to treat industrial accident cases
165	25529-30	July 19		Jensen	Foothills	NWT highest infant mortality rate in Canada; dysentery and infectious hepatitis
	25606-07			Reesor Jensen Berger	NWT/AM	Infant mortality rate, dysentery, hepatitis figures in larger NWT communities; incidence among native populations

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166	25729-35	July 20	YK	Jensen	Foothills	Infant mortality rates; Dear report; high suicide rate, venereal disease, dental problems
167	26025-26	July 21		Brody	COPE/ITC	Sickness, obstacle to returning to traditional way of life
185	28558-84	Sept 15		Schaeffer	COPE	Value of traditional forms of nutrition, effect of loss of traditional food resources on health; dental health, hemoglobin studies, glucose tests, infant nutrition, venereal disease rate
	28591-96			Mayhall	COPE	Oral health of Territorial residents; changes in dental decay; effect of diet on oral health
	28605-24			Mayhall		Effect of food on dental caries; assessment of etiology of periodontal disease; effect of commercial food on oral health; need for dental care among native people; dental morphology; objectives for treatment and prevention of dental disease
	28632			Noble	COPE	Alaska, high venereal disease rate resulting from pipeline, high rate of infant deaths, respiratory infections
	28655-57			Noble		Inadequate levels of sanitation, relationship with current health problems in NWT
	28658-68			Hildes	COPE	Health and diseases of Inuit; report by Hildes, Schaefer and Sayed "The Health Profile of Igloodik Inuit"; differences between health of children breast-fed or bottle-fed; tuberculosis; lung disease; cancer; acute infections, infant mortality and morbidity; obesity, hypertension, diabetes; infectious skin diseases
	28695-711			Cass	COPE	Effect of sight impairment on mode of life; school myopia; short sightedness, cataracts
	28727-32			Berger Schaefer	COPE	Rate of venereal disease, threat of increase due to development, long-term consequences; rate of gonorrhea
	28734-39			Schaefer		Statistics on syphilis, increase in uterine cancer; viral infections caused by vitamin deficiencies; whites prone to same viral infections as natives; treatment of infections with antibiotics
	28754-55			Hildes		Birth control program in NWT; abortion and sterilization
	28769-71			Hildes	COPE	Hepatitis at Churchill Hospital, meningitis, treated with antibiotics
189A	29514-19	Sept 22		Buchholdt R. Worl	COPE COPE	Unhealthy intake of sugar among native Alaskans; average consumption of Coca cola in Barrow; great demand for protein in cold environment; diet shift due to caribou crisis
203	32164	Nov.18		Veale	CYI	Native people will be less fit because of reduction in land-based activities; increase of violent acts caused by development; increased medical services for Old Crow

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C-5	450-51	May 29	Hay River	Williams	CAGPL	Medical services, First Aid man, ambulance
68	10073-74	Sept.24	YK	Hushion	Foothills	Number of medical personnel to be brought in by Foothills
162	25067-68	July 13		Trusty	CAGPL	CAGPL will provide medical support system; territorial regulations

HEALTH SERVICES - FACILITIES AND STAFF

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C-1	16	Apr.2	Aklavik	Furlong	Citizen	Lack of doctors
C-13	1226-34	July 10	F. McP.	K. Graham	Citizen	Problems related to alcohol seen frequently at nursing station
C-32	3034	Oct. 8	FR	Orbell	Citizen	Loss of hospital, doctors, nurses when Catholic Mission closed; closest hospital at Hay River or Fort Smith

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C-33	3218-19	Oct. 9	FS	Gilmore	Citizen	Increased need for doctors, nurses, social workers; Registered Nurses' Association re: recruitment of northerners into profession
C-34	3315	Oct. 16	YK	Loftus	Citizen	If pipeline, then growing demand for doctors, nurses, clinics
C-38	3653-54	Feb.12	In	Allison	Citizen	Anchorage - impact of population increase on quality of existing services
C-47	4544-45	Mar.13	ARR	G. Andre	Citizen	Frustration with facilities, thoughtlessness of hospital
C-54	5613-14	May17	EDM	Shirt	Citizen	Indian health services budget increase by 15-20% a year
159	24507-11	July 7	YK	Boorkman	CAGPL	Alaska, need for additional services; military hospitals
163	25193-200	July 14		Trusty	CAGPL	CAGPL, do not plan to use facilities in small communities; Territorial regulations, use and quality of medical facilities
165	25514	July 19		Ellwood	Foothills	Emergency health services in construction camps, hospitalization at regional hospitals
	25527-28			Jensen	Foothills	Nursing stations in small communities supported by regional hospitals in urban centers; Inuvik General Hospital, Stanton Yellowknife Hospital, Hay River Hospital; treatment of minor illnesses and industrial accidents
	25640-42			MacQuarrie Ellwood	MHA/NWT Foothills	Paramedics employed on-site
	25653-54			Lane Ellwood	COPE/ITC	Paramedical treatment on site; "Park Ambulance"
166	25683	July 20		Jensen Ellwood	Foothills	Medical evacuations to Edmonton, Calgary
	25734-37			Jensen Ellwood		High turnover amongst nurses, doctors; use of paramedics in cases of emergency
168	26202-05	July 22		Brody	COPE/ITC	Remedial programs dealing with alcohol use; limited success with native people
170	26457-66	Aug. 16		Jensen Ellwood		Medical services that will be available to construction workers, local residents
172	26718	Aug. 18		Dixon	MVPI	Alaska, health care delivery system, more doctors, specialists in Fairbanks, changing pattern of health care utilization with health insurance, more native involvement is taking place in rural areas; high turnover among clerical staff in hospitals
	26866-68			Dittrich	COPE/ITC	Frobisher Bay Rehabilitation Center, phased out now
173	26996	Aug. 19		Dusel	NWT/AM	Inuvik, existing hospital would be able to cope with increased load from pipeline development
	27010			Dusel		Fort Simpson, hospital facilities
	27022-23			Dusel		Hay River, present facilities, future enlargement necessities
174	27079-81	Aug. 20		Bayly Lainsbury	COPE/ITC NWT/AM	Capacity of Inuvik Hospital; potential increase in patient load due to pipeline activity
	27097			MacQuarrie	MHA/NWT	Need for convalescent hospital in Inuvik
180	28001-05	Sept 7		St. Eloi Whiteford Nessel Dyck	MVPI MVPI MVPI MVPI	Ambulance service required from camp to hospital; upgrading Inuvik hospital facilities; agreement about minimum medical services in camps
181	28190-92	Sept. 8		McRae	MVPI	Shortages due to population influx, costs should not be passed on to residents; poor care in NWT, injured and sick have to be shipped to other centres
	28206-07			Breckenridge	MVPI	Burden of increased costs due to population influx should not go to residents
182	28250-51	Sept 9		Forth	MHA/NWT	Recommended that health services be transferred from Health and Welfare Canada to government of NWT; additional services and facilities must be provided; establishment of Community Mental Health Ordinance recommended; improvement of mental health facilities in southern centres for pipeline workers; services for non-Territorial residents

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182	28258-63	Sept. 9	YK	Clayton	MHA/NWT	Children's mental health services in Canada, government responsibility; integration of mental health services; integration with educational system
	28280			McCombs	MHA/NWT	Increase in bed-days at Fairbanks Memorial Hospital, increase in admission rate at Mental Health Clinic due to Fairbank's rapid population growth
	28300-04			McCombs		Providing health services to communities without involvement of local council; services provided under new legislation, Alaska Community Mental Health Centre; funding support from oil companies
	28306-09			MacQuarrie Forth	MHA/NWT	HELP Distress Centre, project of Mental Health Association
	28322			Clayton		Mental health services cannot be localized
	28344-45			McCombs	MHA/NWT	Local mental health evaluations by psychiatrists, Alaska Psychiatric Institute
184	28467	Sept 14		Kehoe	COPE/ITC	Anticipated shortage
	28487-88			Kehoe		Attempt to develop plan with community workers, consultant role
	28528-29			Kehoe Atcheson	COPE/ITC	Need to increase with development, more hospitals
185	28581	Sept 15		Schaefer	COPE	Impact on health care delivery by massive infusion of men and money
	28628			Noble	COPE	Current problems of health and social service delivery systems
	28633-40			Noble		Inadequate health services in NWT; recommended that there be increased communication between medical staff and area residents; native participation in planning health services; need for interpreter service in hospitals, increase in pay levels; need for full-time Public Health Clinic in Inuvik
	28643-54			Noble		Responsibility for health and social services divided between Federal and Territorial governments; study by Friesen "Mackenzie River Area Health Care Services"; friction and confusion between governments, lack of liaison co-operation; transfer of responsibilities to Territorial government only; closing of Charles Camsell Hospital's T.B. ward; involvement of native people
	28668-82			Hildes	COPE	Evolution of health care system operated by Federal Government; levels of care; community nursing stations, local hospitals, base hospital facilities outside NWT; lack of native involvement in health care system; "Indian Involvement in Health Care Delivery" in McGill Medical Journal; meeting increased demands
	28739-46			Noble Schaefer Hildes	COPE COPE	Recommendation that medical staff in NWT undergo orientation period; expansion of mental health programs; need for interpreters in hospitals, community health workers; community psychiatric nurse in Inuvik; need for detoxification facilities in Inuvik; interpreter services in settlements
	28755-67			Hildes Schaefer		Definition of nurse-practitioner, qualifications and training; preference to Canadian nurses, midwife courses; nurses responsible for diagnosing and treating; turnover rate of nurses; medical officer in Churchill, community care by nurse-practitioners
	28772-80			Hildes Noble Schaefer		Availability of doctor in Keewatin district, program of nurse practitioners; pressures on nurses in stations, assaults, transportation of patients from hospital; formation of health advisory committees
	28799-804			Schaefer		Available medical resource used to capacity; development will overtax existing resource, must be contingency plan

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187	29031-40	Sept 17	YK	Bruce	COPE	Native alcohol rehabilitation at Henwood, Petapun, Poundmaker; problems of white oriented programs
189A	29493-97	Sept 22		R. Worl Berger	COPE	Alcohol-related injury and accident statistics at Barrow Hospital; health aide at each village
	29504-06			R. Worl		Indian Health Service Hospital in Barrow, care to Inupiat; out-patients at Barrow Hospital; dental services inadequate; health arm formed by North Slope Borough to service villages; health aides training program
	29524-26			Berger R. Worl Buchholdt	COPE	Moderation in increase of hospital admissions due to services provided in North Slope Borough; ability to go elsewhere for medical services, outside of Barrow
190	29675-76	Sept 23		Fergusson	NWT/AM	Hay River Health Center, Public Health Center, H.H. Williamson Memorial Hospital; eye clinics, specialists, psychiatric services; Children's Receiving Home

HEALTH SERVICES - GENERAL

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C-I	7-9	Apr. 2	Aklavik	Headpoint Malanga	Citizen Citizen	Available to the people; mental health care
C-5	351-54	May 28	Hay River	E. Dean	Citizen	Survey of health conditions by Indian Brotherhood
C-16	1570-79	July 13	O.C.	H. Richter	Citizen	Nursing services, Old Crow
C-20	1976-81	Aug. 7	FGH	A. Tobac	Citizen	Health facilities - Aklavik
C-21	2094-95	Aug. 9	NW	G. Monuik	Citizen	Introduction in the north
	2124			C. Barnabe	Citizen	Increased facilities
	2148			R. Laycock	Citizen	Pipeline would bring hospital
68	10074	Sept. 24	YK	Hushion	Foothills	Consultation between Foothills & local health authorities re number of personnel required
C-26	2696	Sept. 9	FS	Lamothe	Citizen	Fort Simpson program, Research Centre, re: Alcohol Rehabilitation
C-35	3400-01	Oct. 22	LI	Wheeler	Citizen	Need for alcohol treatment facilities
C-36	3464-66	Jan. 28	IN	Billingsley	Citizen	Sanitation standards in food, beverage outlets, need for upgrading and expansion of inspection services
	3562	Jan. 29		Garland	Citizen	Need for alcohol treatment facilities
C-39	3709	Feb. 18		Robertson	Citizen	Hospital with no road to it, lack of co-ordination in government spending
113	17231-33	Jan. 21		Hobart	GPC-D	Health payments, Coppermine '71-'75
117	17874-75	Jan. 26		Bayly Wopnford Sider	COPE/ITC GPC-D-S GPC-D-G	Impact of industrialization on health services; impact on mental health
C-51	5079	May 12	VAN	Moul	Citizen	Transportation to hospitals by air
159	24309	July 7	YK	Boorkman	CAGPL	Alyeska, impact on provision of services - loss of employees to the pipeline, high employee turnover rate
165	25487-89	July 15		Roland Trusty	MVPI CAGPL	Services for northerners returning to communities; Alyeska, provision of services
165	25638	July 19		MacQuarrie Jensen	MHA/NWT Foothills	Plans to upgrade existing facilities in NWT; alcohol education facility
171	26611	Aug. 17		Dixon	MVPI	Alaska, need for studies on emergencies and type of care
177	27544-49	Aug. 25		MacQuarrie Galloway Purdy	NWT/AM NWT/AM	Anxiety about fires; ambulances; autopsies; RCMP aid in handling mental patients
182	28291	Sept. 9		McCombs	MHA/NWT	Recommended that health and social services information system be established
	28294-304			McCombs		Provision of mental health services prior to and after Alaska Community Mental Health Center Legislation of 1975; services provided without local council involvement; training of para-professionals; participation of oil companies in providing community health services

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182	28316-17	Sept. 9	YK	Forth	MHA/NWT	Transfer of health services from Federal to Territorial Government brings services closer to people
184	28434-38	Sept. 14		Atcheson	COPE/ITC	Increase in Government bureaucracy; provision and models by southerners, no native input; psychiatric services to fit native needs
	28500-11			Atcheson Kehoe	COPE/ITC	Level of provision in NWT, turnover of personnel, direction of improvement in future, use of paraprofessional, treatment methods
	28517-18			Atcheson	COPE/ITC	Need for new methods of delivery
185	28580-81	Sept. 15		Schaefer	COPE	Improved transportation facilities enabled better medical services
	28787-92			Hildes Mayhall Cass	COPE COPE COPE	Lack of counselling facilities for teenagers; demand for increased dental services, School of Dental Therapy at Fort Smith; improper medical examinations before courses are undertaken
187	28985-91	Sept. 17		Raddi	COPE	Need for an alcohol treatment centre; alcohol treatment and rehabilitation in Henwood House, Edmonton; lack of follow-up programs in communities
201	31861-64	Nov. 16		MacQuarrie	MHA/NWT	Transfer of federal health service obligations to NWT government; social, health operational supervisors, impact funds, information gathering system, community mental health ordinance
202	31929-36	Nov. 17		Bayly	COPE/ITC	Invaluable control over social, health programs; task force formation to evaluate medical services; use by pipeline personnel
204	32325	Nov. 19		Parker	NWT Govt	Mackenzie River area health services study; Central and Eastern Arctic health study report; integration and co-ordination of health care systems; transfer of responsibility from federal to territorial government; expansion of Territorial Hospital Insurance Board; Churchill Health Centre; native involvement in delivery of health services; NWT Certified Nursing Assistance Program; Federal Dental Therapist Program; turnover of medical personnel; priority for hospital use

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XVI	1849	Mar. 12	YK	Dau	CAGPL	Consideration re: route location
	1852-53			Watson	CAGPL	Location, impact on route selection/location
XX	2356	Mar. 18		Morgenstern	CAGPL	Slide: cut in Dempster Highway near Ogilvy River, stabilization measures
XXVIII	3520-21	Apr. 11		Morgenstern		Slope stability
	3536			Scott	MVPI	Slope stability
XXXIII	4253-58	Apr. 21		Berger		Use by CAGPL to transport materials and equipment
XXXIV	4491	Apr. 22		Williams		Hauling Pipe
	4503-36			Dau		Truck hauling, men and equipment
	4537-41			O'Rourke	CAGPL	Off loading to trucks, transport on highway
XXXV	4544-50	Apr. 23		O'Rourke		Servicing interior route - volume of truck traffic
	4583			Dau		Some double jointing of pipe
XXXVII	4716-19	May 13		O'Rourke		Pipe transportation Skagway - Whitehorse - Dempster Highway
	4788-89			O'Rourke		Barge to truck transfer, to move materials into the Yukon
XXXVIII	4863	May 14		Lucas	CARC	All weather access roads
XXXIX	5057	May 15		Dau		Used to feed stockpile sites
	42	5523-27	May 21	Fielder	CAGPL	Access, compressor stations
	50	6686-87	June 6	Horte	CAGPL	Route south of Old Crow and across the highway
C-II	93-96	Apr. 3	Aklavik	F. Joe	Citizen	Culverts in Rengleng River collapsed
C-11	994	July 8	F. McP.	J. Simon	Citizen	Social impact on Fort McPherson
	1002-03			M. Vittrewka	Citizen	Environmental impact
	1025			M. Firth	Citizen	Traffic accidents; drinking
C-13	1222	July 10		R. Carroll	Citizen	Runs through Peel River country
	1249			R. Stewart	Citizen	Environmental damage to the delta

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53	7163-71	Aug. 13	WH	O'Rourke	CAGPL	Increased traffic from development related to pipeline; logistical use
53A	7301	Aug. 13		Leonard	CARC	Connection of Fairbanks and Dempster highways
54	7431-32	Aug. 14		Geist	CARC	Fairbanks corridor; supply lateral from Mackenzie Delta across the Dempster Highway; over wintering grounds of caribou
	7443-44			Banfield	CAGPL	Mackenzie spur to Dempster Highway, Fairbanks Corridor
55	7600	Aug. 15		Hughes	CARC	Location of highway; corridor concept
	7618-19			Hughes		Slides occur on the valley walls of the Eagle River above the Dempster Highway Crossing; Stony and Vittrekwa Rivers but not on the actual Dempster Highway alignment
	7642-45			Morlan	CARC	Fairbanks, Fort Yukon share Dempster Highway Corridor; glaciated and unglaciated areas; corridors may add to disturbance caused by the Dempster
C-22	2222	Aug. 11		Berger		Possible use in transport of materials
	2229-30			C. Pearson	Chamber of Commerce	Government should complete Dempster quickly
	2232-38			A. Wright	Citizen	Reconnaissance report; terrain
	2265			R. McRobb	Citizen	Suggests routing of pipeline along highway
67	9852	Sept. 23	YK	Templeton	EPB	Settlement of slope cuts only partially successful
68	10131	Sept. 24		Dau	CAGPL	Construction observed by contractors for pipeline
76	11196-206	Oct. 21		Weedon Parker	CARC CARC	Maintenance costs; effect of heavy equipment; gravel road standards; construction costs; effects of heavy rain and traffic
	11286			Parker		Ultimate future needs, the Dempster corridor or the Mackenzie Valley corridor
	11304-05			Hughes	CARC	Location re: permafrost zones, Fairbanks corridor
82	12185	Nov. 6		Williams	CAGPL	Policy re: closing of access roads from Dempster highway to interior route
83	12364	Nov. 7		Scott Minning	MVPI CAGPL	Sub-grade materials used on highway between Inuvik and Arctic Red River
89	13500-01	Nov. 18		Jakimchuk	CAGPL	Dempster Highway traffic and access, dangers to Porcupine herd
90	13662-65	Nov. 19		Banfield Berger	CAGPL	Impact; corridor concept
91	13907-09			McCart	CAGPL	Impact on domestic fisheries, Peel River
	13952-54			Berger McCart		Impact on fish; obtaining government documents
92	13978-79	Nov. 21		McCart		Increased access to interior route, impact on fish
	13992-93			McCart		Culverts on Rengleng river
	14026-27			Hemstock	CAGPL	Use of highway construction data to predict impact of pipeline construction on fish
94	14257	Dec. 2		Jakimchuk		Concern as to impact on caribou herd - population
	14292-96			Berger		Impact of Dempster; research; completion
	14319-20			Berger		Impact of the Dempster; research
	14326-59			Jakimchuk McCart Gunn Banfield Hemstock	CAGPL	Impact on caribou, access-uncontrolled, increased hunting, wildlife management, research has been limited; migration patterns- caribou; impact statements
95	14378	Dec. 3		Bayly	COPE/ITC	Public assessment; need for a National Environmental Policy Act
	14438-51			Scott Berger Environmental Panel Marshall	MVPI CAGPL CAGPL	Cummulative impact, studies, environmental assessment, assumptions; access; route and completion; corridor concept
	14458-62			Hemstock McCart Banfield Marshall	CAGPL CAGPL CAGPL CAGPL	Corridor concept, completion, transportation of construction materials; pipeline guidelines
96	14550-51	Dec. 4		Jakimchuk	CAGPL	Caribou killed on the Dempster Highway
	14560-62			Jakimchuk		Caribou wintering range; migration routes
	14587-644			Jakimchuk		Interaction with caribou migration; access; heavy vehicular use; interior route; studies; three access roads from the Dempster; vehicle use, speed limits, regulations

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HIGHWAYS - DEMPSTER

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96	14655-56	Dec. 4	YK	Banfield	CACPL	Reduction in winter range due to the Dempster; herd maintainance
	14662			Banfield		Reduction in range; posting of a bond to ensure herd maintainance
97	14738	Dec. 5		Berger		Impact on Porcupine herd's wintering ground
	14781			Templeton	EPB	Design of culverts, bridges, using 50-year flood levels, 100-year seismic activity levels
	14823-31			Scott	MVPI	Cumulative impact of highway plus pipeline on Porcupine herd
	14926-15006			Jakimchuk		Impact on Porcupine herd
99	15154-77	Dec. 9		Environmental panel	Foothills	Impact of highway with pipeline; corridor concept
100	15260-61	Dec. 10		Hayden	Foothills	Use of special fish culverts at Rengleng River crossing
	15333			Scott	MVPI	On Environmental Map series, birds and fish section, sheet 2 and 3 of 16
101	15506	Dec. 11		Marshall		Contingency plan for forest fire
				Zoltai	CARC	
103	15826	Dec. 15		Marshall	CARC	Crossing at Arctic Red River
104	15925	Dec. 16		Walker	CARC	Rengleng River crossing failure
	15931			Steigenberger	CARC	Rock River crossing
105	16031	Dec. 17		Marshall		Transportation of Delta gas to markets
106	16208	Dec. 18		Calef	CARC	Access re: winter range of Porcupine caribou
	16233			Calef		DeBock study re: caribou response to traffic and hunting
107	16367	Jan. 12		Templeton	EPB	Presence of the Dempster highway re: assessment of environmental impact
108	16426-27	Jan. 13		McT-Cowan	EPB	Access to the Interior route - four roads
	16409-10			McT-Cowan		Consideration of effect
110	16806	Jan. 15		Calef		A. DeBock studies for Renewable Resources and C.W.S.; reactions of caribou to the Dempster; hunting zones
	16847-50			Calef		Calef's alternative route on the interior, use of the Dempster and existing seismic lines
111	16954	Jan. 16		Calef		Study of Porcupine herd must include Dempster
C-25	2547	Sept. 8	FS	Ellwood	Foothills	Utilization for pipeline failure
C-36	3477-79	Jan. 28	In.	Stewart	Citizen	Use by tourists, tourist impact on hunting, trapping grounds
	3531	Jan. 29		Sineok	Citizen	Social impact of white-native contact
C-37	3577	Feb. 10		Berger	MVPI	Completion of highway construction
C-39	3706	Feb. 18		Robertson	Citizen	Support for Inuvik Council; opportunities for tourism, business
	3729			Hill	Citizen	Suggestion that construction halt until pipeline completed
113	17149-50	Jan. 21		Hobart	GPC-D	Possible influences on Delta area, increased access
	17225			Hobart		Little native input into decision to complete road
115	17517-18	Jan. 23		Faulkner	GPC-D-S	Have not considered using highway
138	21002-14	Apr. 6	YK	Mossop	MVPI	Construction start-up date, impact on Porcupine caribou; hunting regulations, enforcement; monitoring of traffic, access
175	27243	Aug. 23		MacLeod	NWT/CC	Recommended extension except for unfinished portion to allow pipeline and gas plant construction discourage transient movements
	27301-02			MacLeod		Unfinished until pipeline construction completed, to discourage transients; open to commercial traffic in winter, logistics plans
191	29761-62	Sept. 24		Hagglund	MVPI	Linked to all-weather roads which serve Inuvik, Arctic Red River, Fort McPherson
193	30205	Oct. 5		Templeton	EPB	Interior route should follow highway through Richardson Mountains
	30240-42			Templeton		Interior route should follow highway through Richardson Mountains

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194	30390-91	Oct.6	YK	Hemstock	CAGPL	No contingency plans re use of highway, caribou on highway
196	30896	Oct.12		MacLeod	CARC	Regulated under Territorial Land Use Regulations, Northern Inland Waters Act; water uses in construction
201	31731-38	Nov.16		Marshall	CAGPL	Fairbanks-Dempster corridor not environmentally more acceptable than prime route
203	32136	Nov.18		Veale	CYI	Impact on Porcupine caribou herd, need for further research and studies; highway may prevent caribou from reaching wintering grounds
	32179-83			Berger Veale		Completion by 1978; impact on caribou

HIGHWAYS - MACKENZIE

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XV	1734-36	Mar.11	YK	Dau	CAGPL	Pipeline-highway interaction
XVI	1849-54	Mar.12		Dau		Consideration re route location
XVII	1890-91	Mar.13		Williams	CAGPL	Route location, May 1972 meeting with Government
	1913-16			Dau		Consideration re route location
	1956			Bayly	COPE/ITC	Consideration re route location
XVIII	2040-42	Mar.14		Watson Bayly	CAGPL	Alignment; a factor in pipeline route location
	2045			Bayly		Cross examination re highway alignment changes
XX	2406-07	Mar.18		Genest	CAGPL	Minutes of meetings re Mackenzie Highway May 5, May 18, 1972 marked as Exhibits 79,80
XXV	2950-54	Apr.8		Genest		Route change to avoid conflict
	2960-61			Clark	CAGPL	Routing conflicts
XXVIII	3558-59	Apr.11		Scott Morgenstern	MVPI CAGPI	Slope failure, re-location
XXIX	3611-14	Apr.14		Scott		Route bore hole recommendations
XXXIII	4248	Apr. 21		Dau		Trucking road shipments to Fort Simpson
	4258-64			O'Rourke	CAGPL	Logistics plan - barging preferred by cost
	4331			Dau		Limited amount of fuel via tank trucks
XXXIV	4376	Apr. 22		Marshall	CAGPL	Mosaic sheets, Milepost 297 to 729
XXXV	4614-16	Apr. 23		Dau		Highway not substantially alter pipeline costs
	4627-34			O'Rourke		Hypothesis: if complete to Inuvik - compare to barging
	4790-99			O'Rourke		Completion to Fort Good Hope
XXXVIII	4863-64	May 14		Lucas	CARC	All weather access roads
	4920-22			Williams		Completion to Fort Good Hope
	4981			Goudge	MVPI	Degree of slope criteria for clearing by machine/hand
XXXI	5045-46	May 15		Williams		Transportation of material from stockpile sites
	5057-58			Dau	CAGPL	If not built - relocation of wharf at Fort Good Hope?
42	5524-27	May 21		Scott Fielder	MVPI CAGPL	Building to Fort Good Hope access
43	5580	May 22		Horte	CAGPL	Location of east side of Mackenzie River
44	5764-65	May 23		Bell	NWT IB/MA	To be used to transport equipment, Hay River to Fort Simpson
	5822-25			Bell		Located on east side of Mackenzie River
48	6345	June 4		Templeton	EPB	No guidelines or regulations so corridor was established
	6442-45			Templeton		Recommend impact statement re: extension of highway
49	6547-75	June 5		Horte		Highway advantage to pipeline but not essential
56	7819-21	Aug. 18		Horte		Construction of projected highway extensions by Arctic Gas; funding of Mackenzie highway
58	8186-87	Aug. 20		Blair	Foothills	Foothills use of Mackenzie highway; expected completion up to Wrigley; use in construction of pipeline

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58	8236-37	Aug. 20	YK	Blair	Foothills	Foothills desirability to connect Mackenzie highway with Fort Nelson B.C.; Fort Nelson highway
59	8337	Aug. 21		Mirosh	Foothills	D.P.W. and Foothills meeting as to accommodation of a pipeline and highway routes
60	8547-49	Aug. 22		Scott Bouckhout	MVPI Foothills	Relocation of Fort Alexander archaeological site; historical grave sites
	8552			Scott Bouckhout		Proposed highway rest stop; Foothills line crossing of Willowlake River
	8556-60			Fawcett	Foothills	Location of pipeline route in relation to Mackenzie Highway
52	6892-94	Aug. 12	WH	Banfield	CAGPL	Environmental studies undisclosed
55	762?	Aug. 15		Hughes	CARC	Construction of the Mackenzie and Dempster Highways have provided experience on engineering behavior of certain terrain types
C-19	1898	Aug. 6	FGH	Grandjambe	Citizen	Impact on Fort Good Hope
C-20	1952-53	Aug. 7		G. Tobac	Citizen	Accidents if highway proceeds
	2026			M. Wilson	Citizen	Would create problems similar to Alaska
C-22	2233-38	Aug. 11	WH	A. Wright	Citizen	Construction
61	8619-21	Sept. 15	YK	Gibbs	Foothills	Proximity of pipeline and highway to grave sites at Fort Alexander
65	9601-04	Sept. 19		Mirosh	Foothills	Use of the highway for Foothills transportation of materials
66	9746	Sept. 22		Mirosh		Plans of Foothills if road does not go beyond Wrigley
67	9939-40	Sept. 23		Mirosh		Advice sought from Hire North re clearing techniques
	9989-91			Mirosh		Finished only to Wrigley
68	10058	Sept. 24		Hushion	Foothills	Foothills assumed highway would be complete when making its application
	10062			Hushion		Advantage of highway to Simpson as a supply depot
	10093-94			Mirosh		Question of transport without highway past Wrigley; currently 30 miles past Simpson
	10098-10104			Hushion		Representation to the government re continuance of highway; importance to Foothills plans & logistics
	10115-17			Mirosh		Compressors north of highway dependent on helicopter access
72	10800	Oct. 15		Adam	EPB	Presence of ground ice near highway; depth; evidence of permafrost
77	11425-28	Oct. 22		Rutter	CARC	Economic problems arise due to distance from Mackenzie River and Highway re: east of the Franklins route
80	11803-04	Nov. 4		Clark	CAGPL	Case history of stability measures and success rate; cut slopes
	11875			Minning	CAGPL	DIAND requires outline of resource borrow requirements of CAGPL, highway
81	11991	Nov. 5		Williams	CAGPL	Movement of compressor site at Thunder River near to highway location
	12038			Clark		Fine-grained and silty sands caused washouts
82	12242-43	Nov. 6		Minning		Gravel pits south of Simpson not restored before highway
83	12363	Nov. 7		Scott Minning	MVPI	Sub-grade materials used on highway between Fort Simpson and River Between Two Mountains
	12364			Scott Minning		Sub-grade materials used on highway between Inuvik and Arctic Red River
	12479			McCart	CAGPL	Dryden and Stein report about rivers near highway
85	12726-29	Nov. 12		Scott McCart Harlan	CAGPL	Impact assessment requirements, river crossings
86	12897	Nov. 13		Drew	Foothills	Borrow availability, Yellowknife to Rae-Fdzo
87	13060-65	Nov. 14		Drew Davison Bouckhout	Foothills Foothills	Proximity of Yellowknife lateral to highway; competing gravel requirements

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88	13211	Nov. 17	YK	Bouckhout	Foothills	Environmental inspector's manual developed for work
88-A	13394-97	Nov. 17		Berger		Impact of highway
90	13646	Nov. 19		Hemstock	CAGPL	As part of corridor concept
	13634-70			Environmental panel	CAGPL	Impact, corridor concept
92	14026-27	Nov. 21		Hemstock		Use of highway construction data to predict impact of pipeline construction on fish
94	14329-37	Dec. 2		Environmental Panel	CAGPL	Access roads - impacts, wildlife management, studies, human activities
95	14438-51	Dec. 3		Environmental Panel		Corridor concept; impact greater than a pipeline; environmental assessment and assumptions
				Marshall Scott Berger	CAGPL MVPI	
	14458-62			Banfield Hemstock McCart Marshall	CAGPL CAGPL	Corridor concept; completion to Fort Good Hope; guidelines for northern pipelines; cumulative effect
97	14781	Dec. 5		Templeton	EPB	Design of culverts, bridges, using 50-year flood, 100-year seismic activity levels
98	14926-15006	Dec. 8		Jakimchuk	CAGPL	Effects on caribou
99	15053	Dec. 9		Scott		Impact of pipeline on wilderness values of areas with highway
	15106			Bouckhout		Studies for highway as information source for environmental statement
	15154-77			Environmental panel	Foothills	Impact of highway with pipeline; corridor concept
100	15204	Dec. 10		Kondla	Foothills	Familiar with pipeline route from work on highway
	15208			Whitney	Foothills	Studies, bison, caribou, crossing snowploughed road near Redknife Hills
101	15506	Dec. 11		Marshall Zoltai	CAGPL CARC	Contingency plan for forest fire
103	15789	Dec. 15		Millen	CARC	Witness' background
	15807-08			Stein	CARC	Mackenzie Highway Monitoring Project
	15815			Marshall	CAGPL	Questions re: 300-foot guidelines for highway construction
104	15933-40	Dec. 16		Millen Stein		Studies on proposed 3 stream crossings re: impact on fisheries
105	16004	Dec. 17		Stein		Monitoring study
	16010			Millen		Erosion control techniques
	16029-30			Stein		Environmental working group re: recommendations
	16067			Millen		Routing recommendations re: stream mouths
	16072-73			Millen		Design consideration re: design flood
	16103			Ryder	MVPI	Construction and operation re: guidelines for protection of fish resources of NWT
	16122-25			Ryder		Highway crossing re: minimum distance from river mouth
107	16306	Jan. 12		Templeton	EPE	Beginning of the corridor
111	16980	Jan. 16		Davies	MVPI	Highway influenced shaping of Mackenzie Valley transportation corridor; located in haste
C-24	2403-04	Aug. 23	TL	E. Jumbo	Citizen	Mackenzie Highway construction near Fort Simpson
C-26	2624-27	Sept. 9	FS	Antoine	Citizen	Changes to Fort Simpson, problems; impact on game
	2655			Villeneuve	Citizen	No interest in hunting and fishing since highway opened
C-27	2745	Sept. 10		Dodd	Citizen	Hire North decelerating re: construction
C-28	2782-89	Sept. 10	Wr	H. Hardisty	Citizen	Wrigley opposition re: routes, construction, ending; impact on Wrigley
	2800-03			G. Hardisty	Citizen	Futility of government meeting with Indians; native employment; comparison of Simpson and Wrigley
	2805			Williams	Citizen	Fear of Wrigley becoming like Simpson
	2817			R. Moses	Citizen	Opposition, impact on trapping
	2819-20			M. Mayally	Citizen	Destruction of land and animals; disturb people; fear of Wrigley take over by whites

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C-28	2822	Sept. 10	Wr.	B. Moses	Citizen	Development in Wrigley re: opposition; destruction of old ways of life
	2826-27			S. Horesay	Citizen	Destruction of land, tradition
	2833	Sept. 11		Berger		Examination of Hire North construction on highway
	2843-47			F. Hardisty	Citizen	Opposition to highway at Fort Wrigley; construction; Hire North; disturbance of land and hunting grounds
C-29	2857	Sept. 12	JMR	Norwegian	Citizen	Access road from Jean Marie River
	2859			Berger		Comment re: access road from Jean Marie River
	2867			Kazon	Citizen	Economy to northern people
C-30	2892-93	Oct. 6	PP	Osing	Citizen	Utilization re: pipeline construction; physical condition
	2899-2900			Carter	CAGPL	Pipeline utilization
	2909-10			Mirosh	Foothills	Highway utilization re: pipeline materials; highway paving
	2941			Osing		Utilization, deterioration of highway
C-32	3059	Oct. 8	FR	Mandeville	Citizen	Communities along highway against pipeline re: environmental damage, interference with caribou
C-33	3105	Oct. 9	FS	Evans	Citizen	Pressure relief on Mackenzie Highway re: alternative highway
C-34	3280	Oct. 15	YK	Berger		Completed to Wrigley by 1979, no plans to continue construction further
C-39	3716	Feb. 18	IN	Hill	Citizen	Evidence of tolerable environmental disturbance
	3727			Hill		Continuous work for local contractors, extension of Mackenzie Highway
	3743			Raynier	Citizen	Completion before pipeline construction
115	17517-18	Jan. 23		Faulkner	GPC-D-S	Shell has not considered using highway
118	19989	Jan. 27		Sider	GPC-D-G	Possible use by commuting Parsons Lake employees
130	19737-38	Mar. 16	YK	Marshall	CAGPL	Additional wharves, access roads, airstrips needed because of highways non-completion; Axe Point staging area connected to highway by all-weather road
C-44	4228	Mar. 8	TUK	Pokiak	Citizen	Livelihood of hunters, trappers endangered by access of highway
C-47	4636	Mar. 13	ARR	Berger N. Norbert	Citizen	Reasons for constructing only to Wrigley
C-52	5399	May 13	CAL	J. Ryan	Citizen	Changes, community of Lac La Martre
156	23949	Jul 1	YK	Kakfusi	NWT IB/MA	Dene opposed Mackenzie Highway construction
C-73	8165	Aug 12	IIM	J. Rabesca	Citizen	Can be used to transport oil and gas
175	27243	Aug. 23	YK	MacLeod	NWT/CC	Recommended that bridge be built across Mackenzie River on Highway; upgrading of NWT portion of Highway
203	32180-82	Nov. 18		Veale	CYI	Completion by government; completed to Wrigley by 1980

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53	7188-89 7210	Aug. 13	WH	Joe Sprecker	CYI CYI	Impact of Alaska Highway on Yukon Glenn Highway (Alaska); cutoff from Tok to Glenallen and Anchorage
53A	7389	Aug. 13		Geist	CARC	Guides unhappy with Alaska Highway
54	7522-25	Aug. 14		Parker	CARC	Alyeska Corridor; highway systems in Alaska; George Parks Highway; Richardson Highway; Alaska Marine Highway system; Haines Highway; Alaska Highway, state highways
	7531-33			Parker		Securing rights-of-way, Alaskan transportation corridors and systems
	7557-60			Parker		Alyeska service road; upkeep and costs to State Government as a result of Alyeska; higher level of overall maintenance and reconstruction on a continuing basis

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55	7598-7600 7619 7629 7641-45	Aug. 15	WH	Hughes Hughes Morlan Morlan	CARC CARC	Alaskan Highway; location of route Alaskan Highway; Klondike Highway re: earth slides Alaskan Highway, Aishihik Road - major population streams Klondike, Cambell Highway, Alaskan Highway - proximity to archaeological sites; study re: archaeological sites; Fairbanks, Fort Yukon corridors, Mackenzie supply line, use of highway reconnaissance studies
C-22	2234-38 2274-75 2287	Aug. 11		A. Wright V. Jutronich A. Netherton	Citizen Citizen Citizen	Campbell Highway, Yukon Impact of Alaska Highway progress of Dempster & Skagway roads Alaska Highway - impact
C-23	2364-65	Aug. 14		A. Cuvret	Citizen	Side effects of Alaska highway
75	11033 11051	Oct. 20	YK	Parker Weedon	CARC CARC	Hickle Highway, an ice road to the Arctic Slope Mainline, Interior or Prudhoe Bay Supply Line do not utilize existing road facilities re Alaskan Highway
76	11181 11196-206 11220-24 11289-95	Oct. 21		Weedon Weedon Parker Parker		Alaska Highway, Fairbanks - Prudhoe Highway; gas corridor Maintenance and construction costs; Alaska highway; effect of heavy rains and heavy equipment use; Alyeska haul road; impact on Caribou migrations; Steese Highway re: impact on Steese 40 mile Caribou Herd British Columbia highway system; Hickle highway Anchorage Highway re: corridor concept; transportation facilities, route selection purpose of transportation facility
78	11568	Oct. 23		Roed	CARC	Trans Canada Highway through Banff National Park; corridor concept; expansion of a facility
89	13485	Nov. 18		Jakimchuk	CAGPL	Caribou cross Trans-Canada in Newfoundland
92	13970	Nov. 21		McCart	CAGPL	Canol road, siltation of streams by roadway materials
95	14386 14523-25	Dec. 3		Banfield Veale	CAGPL CYI	Alaska highway - corridor Alaskan highway
96	14682	Dec. 4		Jakimchuk		Ski highway near Fairbanks, interference with the 40-mile herd
97	14718 14735-44	Dec. 5		Hollingworth Hemstock	Foothills CAGPL	Fairbanks route follows Alaska highway Impact as part of corridor concept
98	14940-41	Dec. 8		Banfield		Trans-Canada, impact on Newfoundland caribou herd
99	15063-64 15165	Dec. 9		Banfield Whitney		Forest fires, Alaska Highway, James Bay roads, impact on wilderness values of areas Steese and Taylor highway, Alaska, impact on caribou
106	16178 16183 16192 16196-97	Dec. 18		Lent Lent Calef Calef	CARC CARC	Steese Highway re: calving grounds of Steese 40-Mile caribou Alaska Highway re: proposed parallel pipeline to TAPS Steese Highway re: Murie study of Steese 40-Mile herd crossing during migration Steese Highway re: Steese 40-Mile herd crossing; Taylor Highway re: calving area Steese 40-Mile
108	16553-54 16576-77	Jan. 13		Thomson McT-Cowan	EPB EPB	Alaska Highway - maintenance Alaska Highway; body to obtain publicity to inform the public - auditor group
109	16730-32	Jan. 14		Veale	CYI	Alaska Highway commission - route, Canadian participation
110	16765 16781	Jan. 15		Bergerud Lent	CARC	Steese Highway Steese Highway - access, hunting increased
C-24	2465	Aug. 23	NB	Nahanni	NWT IB/MA	Nelson Highway, influx of people
C-25	2510	Sept. 8	FS	Black	Citizen	Fort Nelson - Fort Simpson Highway re: pipe shipments, tourism
C-30	2942 2943	Oct. 6	PP	Osing Reed	Citizen Citizen	Pine Point - Hay River Highway - pipeline materials utilization Pine Point Highway trucking impact
C-31	3021-22	Oct. 7	FR	Menez	Citizen	Highway opening between Grimshaw and Hay River - impact on sawmill industry, school, hospital in Fort Resolution

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C-36	3477-78	Jan. 28	In.	Stewart	Citizen	Tourists - highway utilization - impact on hunting, trapping grounds
	3531	Jan. 29		Sineok	Citizen	Social impact of white-native contact
138	20993	Apr. 6.	YK	Mossop	MVPI	Alaska Highway, environmental surveys conducted
150	22873	May 4		Hills	NWT IB/MA	Interior of Brazil, occupation by highway network
	22886-87			Hills		Imposition of system in interior of Brazil
151	23072	May 5		Irving	CYI	Question re archaeological richness of the Alaska highway area
	23088			McClellan	CYI	Alaska highway, social consequences for native people
	23096-110			McClellan		Alaska highway, use of American soldiers for construction; impact on native people; jobs available; car accidents
	23110-20			Cruikshank	CYI	Impact on native people; male-female relationships, native communities
	23123-36			Cruikshank		Canadian Highway Commission Hearings held prior to construction of Alaska highway
	23138-56			Johns	CYI	Alaska highway - employment of natives; impact on hunting, fishing, communities
	23206-08			Smith	CYI	Alaska highway, pipeline Fairbanks route
152	23215-52	May 6		Cruikshank McClellan		Negative social impacts of Alaska Highway construction in Yukon compared to potential impacts of pipeline development
153	23443-44	May 7		Sharp	CYI	Completion of Robert Campbell highway, 1968, impact on Ross River
C-65	7456-57	June 4	OTT	K. Reitan	Citizen	Anchorage - Homer, improper graveling
163	25240-41	July 14	YK	Trusty	CAGPL	Alyeska haul road
172	26842-43	Aug. 18		Dittrich	COPE/ITC	Environmental concerns re building of highway south of Inuvik
174	27144-46	Aug 20		Blair	Foothills	Alaska Highway pipeline, benefits, impact on Mackenzie Valley Pipeline
	27158-68			Blair		Alaska Highway project before Mackenzie Valley project chronologically
	27176-86			Blair		Northwest Alaskan Highway project, dependency on Maple Leaf Scheme
	27199-202			Blair		Start-up periods between Alcan Highway line and Mackenzie Valley line
	27209-17			Blair		Alcan project summary; similarities between CAGS project and Alcan project
191	29763-64	Sept. 24		Hagglund	MVPI	Alaska Highway, Stewart-Cassiar Road, Haines Road, Carcross Skagway

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XV	1734-36	Mar. 11	YK	Dau	CAGPL	PAAG Report, CAGPL's Response; close spacing; crossings
XVIII	2086	Mar. 14		Dau		Close spacing; relocation of proposed pipeline route.
XX	2403-04	Mar. 18		Clark	CAGPL	Location of river crossings; proximity to proposed highway desirable
XXIV	2791-93	Apr. 7		Lane	COPE/ITC	Effect of frost bulb; Mackenzie Highway - future development
XXXIII	4366	Apr. 21		Dau		Road and highway crossings - open cut, board and case crossings
XXXVIII	4970-71	May 14		Dau		Movement of camp facilities
44	5835	May 23		Bayly Horte	COPE/ITC CAGPL	Location of pipeline near Mackenzie Highway
49	6547-75	June 5		Horte		Pipeline route influenced by highway location
56	7861-62	Aug. 18		Horte		Buried pipe at intersection points
52	6882-6900	Aug. 12	WH	Banfield	CAGPL	Cumulative impact; conflicts in resource use
53	7106-08	Aug. 13		Clark Hemstock	CAGPL	Use of highways in alternative corridors
	7157			Clark		Fort Yukon and Fairbanks routes relative to Alaska Highway
	7210			Sprecker	CAGPL	Alaska Highway and Alyeska pipeline

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C-22	2232-38	Aug. 11	WH	A. Wright	Citizen	Land use; corridor concept
68	10093-94	Sept. 24		Mirosh	Foothills	Use of highway for transport with helicopter support
92	13979-81	Nov. 21		McCart	CAGPL	Allowing easier access; increased fishing, impact on fish populations; recommendations re: building highway adjacent to pipeline
	13992-93			McCart		Culverts on Rengleng river; increases in siltation levels due to highway crossings
99	15155	Dec. 9		Finney	Foothills	Studies with respect to access to birds

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143	21809-41	Apr. 14	YK	Fumoleau	NWT IB/MA	History of the territories, 1970-1939; events leading to the signing of Treaties 8 and 11; discovery of oil, minerals
144	21903-08	Apr. 15		Sanders	NWT IB/MA	Process of land cession treaties; events leading to signing of prairie treaties
	21918-36			Sanders		1867 decision, federal jurisdiction, responsibility for Indians and Indian land; other events throughout the empire; Canadian acquisition of Rupert's land Northwest Territories; Red River Rebellion, demands of Riel's provisional government; Northwest Rebellion of 1885; entry of B.C. into Confederation of 1871
	21935-37			Sanders		Problems with resolution of Manitoba Metis land claims
	21939-43			Sanders		English colonial tradition; role as allies vs. subjects; events in other countries
	21973-76			Saul	NWT IB/MA	Rise of nationalism in Africa since World War Two
145	22113	Apr. 26		Clarke	NWT IB/MA	Church historical relationship with the native people of NWT
	22174			Smith	NWT IB/MA	Demise of Indians in Amazon region in Brazil since first contact, 1870
146	22325-48	Apr. 27		Page	NWT IB/MA	Building of the C.P.R., effect on native people and their land; Red River Uprising 1870, Riel Rebellion, 1885
147	22350-60	Apr. 28		Page		Coming of the C.P.R., decline of buffalo, death of Thomas Scott in Manitoba, 1870
	22367-68			McCullum	NWT IB/MA	Federal government, difficulties with fulfilling obligations, land claims; underestimation of long term environmental costs of development projects
	22376-77			Page	NWT IB/MA	Creation of a provisional government, Red River uprising, 1869-70
	22396-402			Page		Background of Riel and Dumont
	22418-420			Richardson	NWT IB/MA	Nouveau Quebec, background of Federal Government control of northern territories, instead of Quebec government; Duplessis, 1939, went to Supreme Court, Eskimos to be part of Indian Act
	22473-74			Page		1869-70, Manitoba; document on Valley of the Saskatchewan 1884, example of imposed authority compared to colonialism
147	22490-91	Apr. 28		Nahanni	NWT IB/MA	Compensation given for loss applied to whites, not native people
148	22656-60	Apr. 29		Rushforth	NWT IB/MA	Early development in Great Bear Lake region, background of trade between whites and Indians, Dene settled at Fort Franklin which restricted their socio-economic system
	22661-64			Rushforth		Tuberculosis contributed in part to settlement at Fort Franklin; influences outside Bear Lake people's socio-cultural system
	22705-07			Aesch	NWT IB/MA	Recent native history not taught in schools
149	22759-63	May. 3		Ritter	NWT IB/MA	Destruction City, encampment of people going to the Klonkike, 1890's; Wind City, camp of miners, 1899-1900
	22770-76			Ritter		History of the Kutchin people of the Peel River region; establishment of Peel River post; Klondike Gold Rush; rise, fall of prices throughout fur trade years
	22781-85			Ritter		History of the Peel River band, hunting, trapping, fishing; conflict with Mackenzie Eskimos; Klondike Gold Rush

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149	22793-94 22826-28	May 3	YK	Ritter Simpson	NWT IB/MA NWT IB/MA	History of Peel River preserve Canadians, westerners see history from western point of view
150	22858-66	May 4		Hills	NWT IB/MA	Assumptions, expanding European society, economy; opening of frontiers, colonized regions
151	23047-62 23091-95 23148-50	May 5		Irving McClellan Jacquot	CYI CYI CYI	Arrival of man in North America; way of life of Kutchin ancestors of modern Old Crow people Lifestyle of Yukon natives; impact of Klondike Gold Rush, other events prior to 1942 Burwash Landing, community in pre-Alaska highway days
153	23410-17	May 7		Sharp	CYI	Background of development at Ross River
C-48	4712-35	Apr. 30	FS	R. Brunt	Citizen	Buffalo hunting, decline of buffalo herd in Wood Buffalo National Park, cruelty of government hunts
C-49	4825-26	May 10	VAN	Wilson	Citizen	BC history, white man taking away native lands; discrimination
C-50	5055-56 5073	May 11		Potts Antoine	Citizen NWT IB/MA	Little interest in north till discovery of oil Beginnings of whites in north, initial contacts
C-51	5151-52 5164-65	May 12		Hemastock G. Watts	CAGPL Citizen	Early activities of white men in the north Tcheshaht Band, Port Alberni, BC
C-52	5265-66 5271-73	May 13	CAL	Chief Snow Chief Snow	Citizen Citizen	Parallels with Northwest Territories, 1876 Signing of Treaty 7, 1877; coming of railway, development to Alberta
C-53	5425-27 5472-79 5492	May 14		Getty Cudby Lusty	Citizen Citizen Citizen	Events occurring after Treaty Number Seven, unkept promises Background of land claims and treaties Treaties; reactions to native oppression
C-54	5608-09 5645-48 5681-82	May 17	EDM	Ruthbone Kuhn Schommer	Citizen Citizen Citizen	Native rights and land claims, root of many Canadian rebellions Social disruptions caused by construction of CPR Land granted to CPR and Hudson's Bay Company
154	23577-98 23594-98	June 29	YK	Watkins Watkins	NWT IB/MA NWT IB/MA	Harold Innis, staples theory interpretation of Canadian history Innis' staple theory, Canadian history
156	23907-18 23932-44	Jul 1		Gillie Yazzie	NWT IB/MA NWT IB/MA	Development of education in north Education development amongst Navajo Indians; bilingual, bicultural, biliteral, and bicognitive schools
C-59	6490-92 6499-01	May 26	TOR	D. Matthews D. Matthews	Citizen Citizen	Impact of exploration, fur trade, permanent settlements on Inuit CPR, similarities with the pipeline, impact on Canada
C-60	6641-44	May 27		B. Loucks	Citizen	Native people, land takeovers
C-61	6852-57	May 28		W. Lowes	Citizen	Progression, expansion of western culture into North America; immigration, settlement
C-66	7640-42	June 7	CH	P. Rydzewski	Citizen	European migration, effects of European wars on PEI; Royal Proclamation of 1763
C-67	7715-17	June 8	HAL	R. Gregoire	Citizen	The Montagnais and Naskapi
157	24061-65	July 5	YK	Hobart	CAGPL	Establishment of Fort Simpson, Fort Good Hope, Fort Norman, Fort McPherson, social impact of development
167	25939-47	July 21		Beakhust	COPE/ITC	Establishment of Territorial Council, 1921; changes in structure, composition
168	26117-20	July 22		Brody	COPE/ITC	Use of alcohol by natives in the Americas; emergence of trading economy
C-70	7960-61	Aug 9	RF	A. Charlo	Citizen	Edzo, great Dogrib leader
C-72	8070-71 8133-35	Aug 11		Chief Charlo N. Black	Citizen Citizen	1921 Treaty between Murphy and Government, results Fur trade, native contact with white man; original settlement of Fort Rae; natives used as slaves by whites; introduction of rifle

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C-72	8146-48	Aug. 11	RE	H. Koyina	Citizen	Trading between natives and whites, scalps, furs
C-73	8242-45	Aug. 12	IJM	J. Green	Citizen	Europeans' arrival in Canada, reaction to native people
C-74	8260-61	Aug. 13	RI.	A. Con	Citizen	When white man first arrived, development, Murphy as chief, Edzo: lifestyles
	8304-05			Chief Arrowmaker	Citizen	Lifestyle in Edzo's time, hardships, coming of whites
185	28594-98	Sept. 15	YK	Mayhall	COPE	Progression of dental disease in North American aboriginal people
187	29077-90	Sept. 17		Falk	NWT IB/MA	History of concept of self-determination
188	29168-76	Sept. 21		Mrs. Worl	COPE	Comparison of Alaska-Native history with American Indian history; contact with Russia, U.S.; increase in non-native population; fight for aboriginal rights
189A	29471-85	Sept. 22		R. Worl	COPE	History of Inuit, Oswalt's definition of "tribe"; early contacts with non-Inuit; whaling fleets and Eskimo, "Ethnographic Description of the Eskimos at Point Barrow" by John Murdoch; "Fifty years Below Zero" by Charles Brower, effects of whaling industry on Eskimo; changes in Eskimo lifestyle
192	29882-83	Oct. 4		Baring-Gould	MVPI	History of Valdez
194	30352-54	Oct. 6		Hemstock	CAGPL	Mackenzie River corridor, native use, boat, air, road transportation, communications
	30362-63			Hemstock		Development of transportation in Yukon Coastal Plain
203	32209-20	Nov. 18		Bell	NWT IB/MA	Review of Dene history
204	32244-47	Nov. 19		Hardy	NWT IB/MA	Recognition of accrued rights in NWT; Half-Breed Commission, Half-Breed scrip; treaty history

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113	17131-50	Jan. 21	IN	Hobart	GPC-D	Mackenzie Delta area
121	18463-65	Feb. 10		Sergeant	COPE/ITC	Inuit culture during Thule period
144	21978-81	Apr. 15	YK	Saul	NWT IB/MA	Cultural resurgence in Africa in countries that have gained their independence
147	22478-485	Apr. 28		Nahanni	NWT IB/MA	Native statements, land resources, traditional lifestyle, hunting, trapping
148	22690	Apr. 29		Asch	NWT IB/MA	Increased mobility of people with the introduction of the dog team
149	22749	May 3		Ritter	NWT IB/MA	Place name studies done among Kutchin people of Yukon, NWT; Use of terms "Kutchin", "Loucheux", different "Kutchin" peoples
	22794			Ritter		Athabaskan languages
	22780-03			Ritter		Hymn book, bible in Loucheux language; development by Archdeacon McDonald
150	22998-99	May 4		Hollingworth Bean	Foothills NWT IB/MA	Overview of non-native society on native culture
158	24170-79	July 6		Hobart	CAGPL	Loss of traditional skills with advent of firearms, steel tools
167	25856-65	July 21		Brody	COPE/ITC	Inuit concept of "ilira", feeling that whites inspire in Inuit; acceptance of decisions by whites; fear of reprisals; loss of traditional leadership
	25893-903			Usher	COPE/ITC	Contact with missionaries, police, during whaling era; new way of life based on trapping, hunting; role of the church
	26010-15			Brody		Inuit concept of "ilira"; dominance of white southerners

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113	17131-38	Jan. 21	IN	Hobart	GPC-D	Mackenzie Delta area
	17164-65			Hobart		Mackenzie Delta area
122	18497-98	Feb. 11		Smith	COPE/ITC	Importance of seals in Inuit economy

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148	22676-91	Apr. 29	YK	Asch	NWT IB/MA	Economic history, post contact, to shape general framework for discussing problems facing the native people today
	22732			Asch		Bargain proposed to fur traders 100 years ago
C-63	7168-74	June 1	MTL	Jones	Citizen	Building of CPR railway; Northwest Rebellion; land settlement problems for native people; economic situation early 20th century
158	24170-79	July 6	YK	Hobart	CAGPL	Transformation of native economy due to fur trade; creation of dual economy
167	25861-66	July 21		Brody	COPE/ITC	Impact of white traders; native dependence on goods, provisions; native incorporation into white economy, material gains
	25893-99			Usher	COPE/ITC	Greater reliance on trapping, hunting; whaling era; native dependence on whites for means of production
169	26220-22	July 23		Stanley	NWT IB/MA	Passamaquoddy Indians, Maine, impact of fur trade, Indian Agent, welfare, federal programs
	26237-39			Stanley		Cherokee people, southeastern United States, small autonomous settlements, subsistence farming, impact of white farms; welfare assistance
	26251-54			Stanley		Economic of Lummi Indian tribe, communal ownership; impact of fur trade, establishment as commercial food producers; fishing
C-69	7930-38	July 17	KL	P. Simba	Citizen	Role of Hudson's Bay Company in community; rationing system established; buying of guns
C-77	8413-15	Aug. 26	DET	F. Framus	Citizen	Indians were cheated when trading began, did not understand concept of money
186	28882	Sept. 16	YK	Snowden	COPE/ITC	Hinterland productive capacity

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XVI	1776-77	Mar. 12	YK	Gibbs	Foothills	Alaska, Delta gas needed for line
	187			Gibbs		Route selection - environmental factors
	1858-60			Anthony	CARC	Route selection - public interest
	1871			Berger		Delta route selection factors
XVII	1915-16	Mar. 13		Bell	NWT IB/MA	Gas for communities
	1921			Bell		Consultation with northerners
	1941			Bell		Consultation with northerners
	2004-05			Anthony		Consultation with federal government - what and when
XVIII	2009-10	Mar. 14		Scott	MVPI	Consultation with federal government
XXIV	2785-86	Apr. 7		Lane	COPE/ITC	Ordering of pipe, it done yet
XXIX	3623-24	Apr. 14		Scott		Design monitoring
XXX	3867-69	Apr. 15		Gibbs		Points re design, decisions
XXXII	4073-75	Apr. 18		Berger		Looping
	4150			Scott		Communications systems design
	4162			Genest	CAGPL	Financial analysis, pipe size, etc. - company decision
	4165-66			Scott		Design review, specialists' input - Horte re overrule
XXXIV	4456	Apr. 22		Veale	CYI	Calling witnesses as and if need arises
	4457			Veale		Policy re monitors, inspectors
	4462-63			Veale		Work stoppage authority
	4465-67			Veale		Final authority, project management
XXXVII	4723-24	May 13		Bell		Dredging necessity, company opinion
	4748			Bayly	COPE/ITC	Cross-Delta route
	4774			Bayly		Hours of work, workers, regulations
	4782-84			Bayly		Inspectors, monitors, numbers
	4795-4800			Bayly		Rate negotiations with barge companies
	4807-10			Bayly		Air carrier capacities, rates

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XXXVIII	4926-30 4933-38	May 14	YK	Lucas	CARC	Environmental stipulations in construction specifications Independent design review
XXXVIII	4939-40	May 14		Lucas	CARC	Review processes and stipulations - Horte on notice
XXXIX	5037-39 5053	May 15		Goudge	MVPI	Ownership, maintenance of wharves
	5037-39			Goudge		New and up-graded airstrips - responsibility
40	5271	May 16		Goudge		Ownership of wharves
				Marshall Scott	CAGPL MVPI	Summary of evidence
41	5328-30 5357-58	May 20		Lucas		Policy on releasing remarks of pipeline failures
				Lucas		Migratory birds and aircraft, contingency plans
42	5529-70	May 21		Genest	CAGPL	Evidence in chief
43	5576 5579-92	May 22		Williams	CAGPL	Discussion previously on looping
				Genest		Evidence in chief
45	5950	May 24		Bayly	COPE/ITC	Nature of Prudhoe Bay gas
49	6562-67	June 5		Horte	CAGPL	Government meetings about route selection
50	6637-38 6677	June 6		Horte		Ultimately responsible for selection of route
				Horte		Known discoveries of gas reserves
C-4	200-204	May 28	Hay River	Carter	CAGPL	Summary of statement on gas supply to communities
52	6925	Aug. 12	WH	Berger		To discuss potential of U.S. Naval Petroleum Reserve #4
98	14996	Dec. 8		Hemstock	CAGPL	CAGPL cooperation with government, environmental studies for game management programme

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C-10	879-80 895	June 27	F.N.	P. Andrew	Citizen	Government low rental housing programs
				R. Clement	Citizen	Grants; native people against rental homes
C-12	1078-79	July 9	F. McP.	P. Blake	Citizen	Government, native housing; rental homes
C-13	1242 1265	July 10		J. Charlie	Citizen	Utilidor, pollution
				A. Stewart	Citizen	Gas service to community will be no benefit
C-17	1702-03 1718	July 16	F.L.	J. Bonnetrouge	Citizen	Government low rental housing
		July 17		J. Bonnetrouge	Citizen	N.W.T. housing program
	1732-35			Father Mary	Citizen	Hunting, trapping, fishing, life in the bush
53	7205-08	Aug. 13	WH	Sprecker	CYI	Lack of housing for Alyeska population
C-19	1885-88	Aug. 6	FGH	L. Jackson	Citizen	Inadequacy of rental home system
C-20	1942-44 1965-70	Aug. 7		M.R. Drybone	Citizen	Government housing signified government control
				A. Tobac	Citizen	Contrast between white government officials' and native homes
	2019			F. Barnaby	Citizen	Rental homes; increase drinking problem
C-21	2081-82 2093-95 2124	Aug. 9	NIJ	P. Howard	Citizen	Inadequate housing for teachers & school facilities
				G. Monuik	Citizen	Native low-rental homes
				C. Barnabe	Citizen	Changes in native housing
	2152-58			G. Loomis	Citizen	Shortage of lots - Norman Wells
	2198-2000			E. Delbroucke	Citizen	Native housing
	2206-07			W. Fraser	Citizen	Native & white needs; camps
C-22	2249-53 2293	Aug. 11	WH	T. Nairn	Citizen	Building codes; fire prevention
				O. Posiwaschek	Citizen	Difficulty of building in Whitehorse
C-23	2364-65	Aug. 14		A. Cuvret	People's Land Committee	Concern re population increases
68	10070-72	Sept. 24	YK	Hushion	Foothills	Recognition of housing support facilities for employees in headquarters; application to northerners
76	11231	Oct. 21		Weedon Parker	CARC CARC	Alaska; tight housing market
95	14367	Dec. 3		Hemstock	CAGPL	Employees living in settlements versus a construction hunting, trapping regulations

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C-24	2455-56	Aug. 23	NB	J. Antoine	Citizen	Houses built by DIAND, movement of people into the settlement; repairs to housing
	2461-64			Nahanni	NWT IB/MA	Housing needing repair, lack of concern by governments
C-26	2704	Sept. 9	FS	Lamothe	Citizen	Social development in Central Arctic - researchers appalled at Inuit tents, insisted on houses for people
C-28	2789-90	Sept. 10	Wr	H. Hardisty	Citizen	Government promise re: move to new Wrigley; quality of houses
C-30	2890-91	Oct. 6	PP	Osing	Citizen	Ownership, land value
	2903-04			McConnell	Citizen	NWT Government housing for native people
C-31	2996-99	Oct. 7	FR	Osing		
	2999-3003			Stevenson	Citizen	Southern input re: design, standards; rental programs, tenant responsibilities; NWT Government house building programs
				Morin	Citizen	Legislation re: home ownership; camp site housing; housing forecast - Pine Point
C-32	3052-53	Oct. 8	FR	King	Citizen	Repair to houses
C-38	3653-55	Feb. 12	YK	Allison	Citizen	Anchorage - changes in housing, cost of land due to population increase
	3662	Feb. 15		Ellwood	Foothills	Housing policy for applicant's Inuvik employees
	3672			M. Kailik	Citizen	Inability to get help from Housing Association
C-38	3682-84	Feb. 15		Albert Mirosh	Citizen Foothills	D.P.W. housing-rental rates for northerners, southerners; housing for pipeline workers, rental subsidization, discrimination
C-39	3740-	Feb. 18		Shaw	Citizen	Funds for increased housing needs
113	17161	Jan. 21		Hobart	GPC-D	Differences of white and native housing, Inuvik, segregation of white area
114	17410	Jan. 22		Scott	MVPI	Taglu gas plant, housing complex
115	17547-48	Jan. 23		Mainland Stamberg	GPC-D-I GPC-D-G	Parsons Lake gas field, location size, facilities, design
117	17878	Jan. 26		Bayly	COPE/ITC	Impact of project on housing industry in north
	17914			Bayly Sider	GPC-D-G	Improvement of housing facilities, furnishings
118	17931	Jan. 27		Tod	GPC-D-I	Company personnel, service people, shortage of housing in Inuvik, impact of development
142	21649	Apr. 13	YK	Virtue	NORTRAN	Provision of housing for both northern, southern workers
143	21686-87	Apr. 14		Giroux	NORTRAN	Problems with accommodation, Nortran trainees
144	22030-31	Apr. 15		Bean	NWT IB/MA	Government low cost housing program
148	22584-85	Apr. 29		Snowshoe	NWT IB/MA	Life-style changed due to low rental housing, welfare
	22727-29			Asch	NWT IB/MA	Criticism of Gemini North's report on housing conditions; creation of disparities
153	23452-56	May 7		Sharp	CYI	Changes in housing, 1967-1974, report of MacDonnell
	23513-16			Sharp		House left by Collan, Ross River, to board children on short-term basis, allowing parents to gain access to bush
C-47	4605	Mar. 13	ARR	A. Andre	Citizen	Low rental, quality poor; why not loans to build homes themselves
C-54	5628-30	May 17	EDM	Manning	Citizen	Rental housing project set up by Slave Lake Developments Associates
	5725-27			Robertson	Citizen	Severe housing shortages in Edmonton, will be accentuated with pipeline development
C-55	5800	May 18		R. Dion	Citizen	Lack of low income facilities, Edmonton
	5824			H. Daniels	Citizen	Lack of proper facilities, Metis people
C-62	6918	May 31	MTL	Delisle	Citizen	James Bay Indians having to receive governmental approval for house building, permission is refused, must then rely on welfare housing
157	24083-84	July 5	YK	Hobart	CAGPL	Natives in low-cost housing
159	24312-17	July 7		Boorkman	CAGPL	Alyeska, impact on the state-inability to meet high demands, loss of skilled labor to pipeline, very low vacancy rate; number new units begun, 1975

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159	24323	July 7	YK	Boorkman	CAGPL	Rent increases, vacancy rates, Alaska
	24437-39			Boorkman		Alaska, most provided by private developers; U.S. Department of Housing and Urban Development, unit subsidization program
	24491-92			Boorkman		Possible gap between housing available and prices people can afford
	24502-03			Boorkman		United States, definition of substandard conditions; overcrowding, health hazards
160	24757-61			Asch Rushforth	NWT IB/MA NWT IB/MA	Low rental housing projects
161	24841-42	July 12		Trusty	CAGPL	Provision of staff accommodation, various operations headquarters
162	25089	July 13		Trusty		Planning in advance of anticipated growth; avoidance of short-term catchup problems
163	25110-12	July 14		Hobart	CAGPL	Features of physical environment, impact on social behaviour
	25188-92			Trusty		Reduction in requirements, staffing on a single status basis
	25241-42			Trusty		Situation in Inuvik, vacancy rate
	25246-51			Trusty		Floor space to be constructed; replacement demand
164	25363	July 15		Hobart		Impact of poor, crowded conditions on liquor consumption
165	25517-19	July 19		Ellwood	Foothills	Acute shortage in NWT; Foothills will provide accommodation for permanent employees; operations and maintenance personnel encouraged to buy homes
	25521-27			Jensen	Foothills	Studies on housing shortages, "Mackenzie Valley Entrepreneurial Study", "Social and Economic Impact of Proposed Arctic Gas Pipeline in Northern Canada"; Jensen's research for NWT Housing Corporation; recommendations with regard to housing
	25598-99			Reesor Ellwood	NWT/AM Foothills	No differentiation between resident and non-resident employees
	25600-03			Reesor Jensen Burrell	Foothills Foothills	Home ownership with subsidization; encouragement of ownership over rental; policies of NWT Housing Corporation
166	25681	July 20		Ellwood		Home ownership plan affected by moves to new community
	25754-56			Ellwood		Use of local governments serviced land for housing
167	25902	July 21		Usher	COPE/ITC	Government rental program; change of status from homeowner to tenant; difference in quality, white and native homes
	26028-29			Brody	COPE/ITC	Policy re delivery to camps, settlements
C-72	8105	Aug 11	RF	R. Whitford	Citizen	Overcrowded homes in Rae/Fdzo, underequipped, little repairs
171	26645-46	Aug. 17	YK	Dixon	MVPI	Alaska, shortages, rent review
	26670-73			Dixon		Alaska, safety of unconventional housing, little enforcement of codes, tolerance due to shortages and tradition
172	26714	Aug. 18		Dixon		Alaska, in-migrants bringing trailers, independent of housing problems
173	26991-93	Aug. 19		Dusel	NWT/AM	Inuvik, shortages, mobile homes
	27006-08			Dusel		Shortages will be experienced between 1977-78, total of 200 units will have to be added between 1975-80 to accommodate pipeline development, mobile homes
	27019-21			Dusel		Hay River, housing has generally been provided by Territorial and Federal governments; changing demands

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174	27099	Aug. 20	YK	Dusel MacQuarrie	NWT/AM MHA/MWT	Provision of housing for social service field workers
175	27235	Aug. 23		MacLeod	NWT/CC	Recommended that non-taxable home owners' grant be available to NWT residents, benefits
	27299			MacLeod		Recommended non-taxable home owner grant
178	27608-09	Aug. 26		Pritchard	MVPI	Small impact, demand for better quality
	27625-30			Merret Pritchard	MVPI	Facilities for service personnel, provision by company, increased demand, assumptions of study
	27642-46			Merret Pritchard		Additional facilities needed, overcrowding
	27671-85			Runge	MVPI	Study area, condition of existing stock, portion of income spent; accommodation for staff; shortages; funding available for assistance, critical need in small communities, construction, crowding, costs; solutions
	27686-711			Runge		Rental programs, condition, ratio of renters to owners, crowding, poor facilities, growth estimates for future needs
	27712-25			Runge		Projecting future needs, social vs. total housing need; family formation; ability of private market to supply
C-72	8105	Aug 11	RE	R. Whitford	Citizen	Overcrowded homes in Rae/Edzo, underequipped, little repairs
179	27726-36	Aug. 27	YK	Runge		Formation of NWT Housing Corporation, subsidies received under National Housing Act; local construction preferred, advantage in renting; outline of home ownership programs
	27736-46			Runge		Outline of rental programs in NWT, subsidies under National Housing Act; collection rates of rent; home maintenance, public vs staff housing rents, possible future overcrowding
	27749-58			Runge		Future requirements, people per unit; servicing of units, costs of units to build, cost of transporting materials
	27760-74			Runge		Funding from Treasury Board; need for central planning; authority, input of communities in planning; land development; transportation problems; encouraging home ownership programs
	27774-88			Runge Lowing	MVPI	Encouraging local construction; projected shortages; competition with pipeline for land, social housing, government funding programs, five year development plans
	27790-94			Runge		Use of construction buildings as homes after completion Housing Corporation regulate design, costs
	27797			Berger		Camp components' design be regulated so they can be used as homes after completion
	27800-02			Scott Bayly	MVPI COPE/ITC	Negotiation of price for construction buildings after completion; social housing requirements in future
	27804-15			Runge		Government building standards, often not maintained; qualifications for low cost housing; special subsidy programs for fuel and hydro costs, input of communities re construction
	27817-22			Berger Runge		Validity of home ownership concept, costs; comparing northern and southern standards
	27822-26			Scott Runge		Total costs of prefab homes; proposal of development corporation; benefits of local construction to communities, standards
182	28364-69	Sept. 9		Clarke	COPE/ITC	Study on impact of pipeline on housing; availability to native people; traditional housing, provision of housing today; cost of housing; Federal government staff housing; home ownership vs renting
	28370-74			Clarke		Native home ownership; standards for natives and non-natives; recent housing history of natives in Inuvik and Fort Simpson; difficulty of repairs on public housing in Inuvik; eligibility for federal housing benefits; promises of Government when Inuvik developed; Eskimo housing co-operatives; destruction of homes in Fort Simpson by flood
	28380-82A			Clarke		Increased pressure on limited housing; availability of units in Fairbanks, supply and demand; present surplus in Fort Simpson

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182	28385-89	Sept. 9	YK	Clarke	COPE/ITC	Mobile homes planned in Inuvik and Fort Simpson; residence code; trailer lots in Inuvik; Petroleum Resources Development Committee of Council; housing related activities in Inuvik; co-ordination of community plans in Inuvik by Town Planning and Lands; recommended establishment of housing pre-fabrication industry in Hay River; role or NWT Housing Corporation; home ownership plans
	28392-94			Clarke		Results of pilot housing project by Inuit Tapirisat; alternatives to current housing; suggested guidelines for planning housing measures
183	28402	Sept. 10		Clarke	COPE/ITC	Cancellation of Log Housing Program of NWT Housing Corporation
	28403-06			Clarke		Financing; ownership, traditional form of tenure of natives; costs; forms of tenure, inflation in market
	28408-12			Clarke		Crowding, building of prefabs; supply; suitability of prefabs to people's needs, improving building technology
	28415			Clarke		Rents in public housing, costs of buying
184	28430-32	Sept. 14		Atcheson	COPE/ITC	Vast difference between white and native standards of living within community
189	29421-25	Sept. 22		Robertson	NWT/AM	Availability of developed building lots in Inuvik, cost of single dwelling lots, trailer lots, apartment blocks
190	29599-601	Sept. 23		Wasyk	NWT/AM	Fort Simpson, Beaudoir sub-division; trailer and house lots; building log houses, "Building With Logs" by Allan Mackie
	29602-09			Bennett	NWT/AM	Inuvik's requirements if pipeline is constructed; early Federal government housing in Inuvik, private home constructions; present situation, predicted problems, if pipeline; funds for increased requirements; high cost of utilities
	29628			Feilden	NWT/AM	Housing units required in Inuvik to face development, cost per person
	29644-47			Taylor	NWT/AM	Residential development in Hay River, housing trends; future residential needs; present housing mix
192	29903-04	Oct. 4		Baring-Gould	MVPI	Impact of Alaska pipeline on Valdez's spatial distribution
	29915-17			Baring-Gould		Shortage in Valdez due to population explosion after pipeline
	29931-35			Baring-Gould		Self-confined housing in Valdez for professional and management families; shortage of housing discouraged population growth
	29953-56			Bennett Baring-Gould	MVPI	Lack of housing in Valdez, problems; no attempt to provide temporary housing for transients; family accommodation; subsidized housing
197	30990	Oct. 13		Bergasse	MVPI	Prefabricated housing as an entrepreneurial opportunity
198	31213-16	Oct. 14		Witty	MVPI	Housing maintenance program offered by territorial government; Housing Association Committee operates and maintains housing in communities
204	32346	Nov. 19		Parker	NWT Govt	Housing Corporation advice on design structures

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XVII	1911	Mar. 13	YK	Williams	CAGPL	Importance in route relocation
	1936-44			Williams Bell	NWTIB/MC	Status of land; location of registered traplines; Consultation of registered trappers in route selection
	1944-46			Berger		Registered and unregistered traplines
XVIII	2021-26	Mar. 14		Williams Dau Bayly	CAGPL COPE/ITC	Traplines; a factor in route selection, Prudhoe Bay Supply Line alternative corridors
	2031			Dau		A factor in considering the cross delta rate change; whales
	2045-46			Bayly Williams		Consultation of trappers re: route location

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XIX	2128-29	Mar. 17	YK	Genest	CAGPL	Letter from Fox re: traplines for Bayly
XXVI	3088-90	Apr. 9		Scott	MVPI	Letter from Nurse Parker, Aklavik - income, less wildlife
XXXIV	4391-93 4496	Apr. 22		Dau Williams		Location of pipeline, construction plan Muskrat trapping Old Crow; native fishery
XXXIX	5042	May 15		Dau		Consultation with hunters re: wharf location
42	5455-56 5500	May 21		Scott Scott		Aircraft flights, effect on wildlife Use of pipeline ROW
43	5584	May 22		Horte	CAGPL	Trap lines, traditional hunting and fishing areas
44	5795-98 5866	May 23		Bayly Horte Bayly		Northern economy, stable base pipeline vs hunting, trapping, fishing Peel Plateau, trapping area
45	5884 5893-96 5929-32	May 24		Bayly Horte Bayly		Trapping area of Arctic Red River Consultations with Trapping Associations Location of pipeline along mainline route
47	6201-27 6240-58	June 3		McT-Cowan Gourdeau	EPB EPB	Recommendation - no hunting refuge area Traditional activities still, some wage earning
48	6388	June 4		McT-Cowan		Sec 13 Code - control activities, use of firearms
50	6622-24 6693-94 6701-03	June 6		Horte Horte Horte	CAGPL	Subsidize re-organization of traplines - James Bay Possibility of route causing damage Compensation machinery for dealing with claims
C-I	4-5 5-9 11 14 18-19 20 22-26 26-30 49-52	Apr. 2	Aklavik	Sittichinli Headpoint Paul Thrasher Carmichael Flanik Flanik Paul Ross	Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen	Traditional way of life Way of life, source of food For food, shelter Whaling; living off the land Damage to rabbit snare line Delta; muskrat trapping Blasting, effect on muskrat trapping Trapping, effects of blasting Mackenzie Delta for food
C-11	69 82-83 100-103 117-118 122-126 127 140-43	Apr. 3		Greenland Reynolds Gordon Stewart A.Gordon Ookpik A.Ookpik	Citizen Citizen Citizen Citizen Citizen Citizen Citizen	Concern that pipeline will destroy the land Pipeline, hunting trapping grounds Increased activity affecting caribou hunting Traditional way of life Trapping muskrats Hunting caribou Muskrat trapping; hunting quail, seals
C-111	172	Apr. 4		Marring	Citizen	Poor hunting since seismic lines put through
C-4	253-254 286-288	May 28	Hay River	Fabien Demelt	Citizen Citizen	Witness' family trapped Opening up areas makes trapping easier
C-6	489-576 582-595	May 30		Lamalice D.Sabourine	Citizen Citizen	Land claim settlement; traditional way of life Only way of life
C-7	602-673	June 24	F.F.	Citizens of F.F.	Citizens Citizens	Value of game resources; traditional way of life
C-8	676-771	June 25		Touchou	Citizen	Traditional way of life
C-9	774-833	June 26		Tutcho, et al	Citizens	Way of life, training by older generations
C-10	835-70 871-983	June 27	W.L. F.N.	Citizens Citizens		Discussion at hearings at William Lake Discussion at hearings at Fort Norman; desire to maintain traditional way of life
C-11	989-1065	July 8	F. McP.	Citizens		Community hearings, Fort McPherson
C-12	1067-1149	July 9		Citizens		Traditional way of life; dog team vs. skidoo
C-13	1150-1269	July 10		Citizens		Community hearings, Fort McPherson
C-14	1270-1362	July 11	O.C.	Citizens		Community hearings, Old Crow
C-15	1363-76	July 12		Citizens		Community hearings, Old Crow, traditional way of life

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C-16	1477-1657	July 13	O.C.	Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
	1715-65	July 17		Citizens		Community hearings, Fort Liard
56	7835-36	Aug. 18	YK	Horte	CAGPL	Pipeline route selection; environmental factors; inability to avoid all traplines; construction impact greatest
59	8339	Aug. 21		Mirosh	Foothills	Foothills deviation around Travaillant Lake; consideration of trap, denning sites; skirting of Ebbutt Hills; trap protection
	8473-75			Fawcett	Foothills	Travaillant Lake; Foothills route; trapping areas; mile posts 140 to 170; Liard and Mackenzie confluence; awareness of specific sites, re: nesting, denning; socio-economic and environmental impacts
60	8550-52	Aug. 22		(Scott) (Bouckhout)	MVPI Foothills	Domestic fishing done by people near crossing of Willowlake River
53	7066	Aug. 13	WH	Trusty	CAGPL	Pipeline impact on wild life - Mackenzie Valley
	7113-18			Banfield	CAGPL	Impact of increased (pipeline) population
	7179-83			Joe	CYI	Tradition and history of Yukon tribes
	7214-20			Sprecker	CYI	Regulations governing pipeline workers
	7240-45			Sprecker		Impact of workers on local hunting and fishing
53A	7320	Aug. 13		Leonard	CARC	Regulations in Arctic Wildlife Range
54	7413	Aug. 14		Geist	CARC	Aside from hunting impact, Dall sheep are fairly resistant to human activities
	7419			Geist		Dall sheep are resource which should be used
	7431			Geist		Fluctuation of caribou lands; impact of hunting
C-18	1766-1834	Aug. 5	FGH	Citizens of FGH	Citizen	Way of life; source of food
C-19	1835-1908	Aug. 6		Citizens of FGH	Citizen	Way of life; source of food
C-20	1915-2075	Aug. 7		Citizens of FGH	Citizen	Way of life; source of food
C-21	2137-41	Aug. 9	NW	C.Tourangeau	Citizen	Education in skills
	2159-63			P.Tourangeau	Citizen	Subsistence on land; hunting by M.O.T. employees
C-23	2306-07	Aug.14	WH	R. McKaymie	Citizen	Overhunting in the Yukon & Alaska
71	10643-46	Oct.14		Bayly Longlitz	COPE/ITC MVPI	Effect of snow roads on traplines; community involvement re: land use permits and construction activities
	10687-88			Bayly Longlitz		Impact on a person's livelihood
75	11058-59	Oct.20	YK	Weedon	CARC	Hunting in the Arctic National Wildlife Range; control caribou hunting; record; access to the Range limited; regulations re: animal quotas
	11105-22			Parker Weedon	CARC CARC	Porcupine herd; access to humans; regulations
76	11170	Oct.21		Weedon		North Slope route; impact of hunting on caribou
	11203-05			Weedon Parker		Steese 40 mile Caribou herd; hunting quotas; reduction of hunting pressure
	11256-61			Weedon Parker		Hunting pressure on caribou herd; greater access to herds
82	12223-34	Nov.6		Hemstock	CAGPL	Land use of right-of-way
	12275			McCart	CAGPL	Fishing pressure due to access from pipeline
83	12424	Nov. 7		Scott	MVPI	Native fishing on Rat River
84	12572	Nov. 8		McCart	CAGPL	Effect of construction personnel fishing
85	12657	Nov. 12		McCart		Open water areas, North Slope, fishing all year
87	13079-85	Nov. 14		Bayly Reeves	COPE/ITC Foothills	Modern, ancient archaeological sites, pipeline route
89	13459	Nov. 18		Jakimchuk	CAGPL	Hunting Dall sheep by snow machine
	13485			Jakimchuk		Caribou vulnerable to hunting
90	13681-93	Nov. 19		Dabbs Hemstock	CAGPL CAGPL	Effects of removal of timber, Peel River area
91	13772-74	Nov. 20		McCart	CAGPL	Fishing areas in critical areas; traditional areas report
	13901-12			McCart Hemstock		Compensation for domestic fisheries losses, Peel River

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92	13956-65	Nov. 21	YK	McCart	CAGPL	Commercial, traditional fishing areas, impact of pipeline, siltation
	13973-82			McCart Bayly	COPE/ITC	Impact of over-fishing on fish populations; limits for anglers; impact of easier access; controlling construction workers; road beside pipeline; interior route over-fishing of Marsh fork; paralleling and crossing rivers at angles
93	14185	Dec. 1		Hemstock Gunn	CAGPL CAGPL	Camp regulations, prevention of hunting, and fishing by camp members
94	14270 14327-29	Dec. 2		Jakimchuk Jakimchuk	CAGPL	One cause of caribou fluctuations - hunting Caribou as a resource; increased access to the herd due to Dempster Highway, uncontrolled access
	14349-59			Banfield	CAGPL	Caribou as a food source for communities of Aklavik, Old Crow, Fort McPherson; hunting areas; disturbance
95	14366-70	Dec. 3		Hemstock Jakimchuk		Camp regulations; trapping around camp areas; native employment; Alyeska; firearm laws
	14482			Jakimchuk		Migration past Old Crow; McPherson, Aklavik hunters - caribou as a food resource
	14511			Bayly	COPE/ITC	Restrictions on personnel
	14550-51			Jakimchuk		Caribou as a resource; annual kill in Old Crow, Aklavik, Inuvik, Fort McPherson, Arctic Red, Arctic Village, Fort Yukon
96	14568-71	Dec. 4		Jakimchuk Berger		Hunting pressure in the Old Crow, Fort McPherson, Arctic Village areas; access from the Dempster Highway; Government of Yukon - regulations, game management
	14603-04			Jakimchuk Veale	CYI	Monitoring hunting season; corridors where hunting is allowed
	14646-47			Jakimchuk		Annual kill due to hunting of caribou
	14657			Banfield		Kill through hunting; recovery of Ungava Herd
	14682			Jakimchuk		Access to caribou
	14688-89			Veale		Fishing below the confluence of the Old Crow and Porcupine Rivers; blasting
97	14721-23	Dec. 5		Bell Jakimchuk	NWT IB/MA	Moose hunting along Mackenzie, impact on movements by pipeline
	14729-31			Jakimchuk		Hunting moose, Swan Hills, Alberta; increased access to hunters, Mackenzie Valley
	14851-57			Scott	MVPI	Value of snow geese to hunters, native people
98	14863-64	Dec. 8		Gunn		Hunting birds by native people
	14914			Scott Gunn		Increased human access to birds
	14934-54			Jakimchuk Banfield		Impact of hunting on caribou herds, pressure from increased access
	14985-90			Jakimchuk Gunn		Restrictions on hunting during construction periods; game management
99	15031-33	Dec. 9		Jakimchuk		Use of ROW
	15082			Banfield		Hunting permitted, Arctic National Wildlife Range
	15108			Bouckhout	Foothills	Route changes due to trap lines, Travailant Lake area
100	15247-58	Dec. 10		Whitney Bouckhout	Foothills	Restrict hunting during construction; Alyeska 5-mile no hunting corridor; game management; increased access; restriction on winter fishing by workers
	15290			Hayden	Foothills	Little domestic fishing on Great Bear River
	15311-18			Hayden		Commercial, domestic fisheries; possible conflicts, protection measures, information needed
101	15399	Dec. 11		Finney	Foothills	NWT Game Branch; need for better records re bird kills

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102	15565-68	Dec. 12	YK	Peterson	CARC	Native use of IBP sites
	15619-60			Novakowski	CARC	Banks Island fox trapping; lynx, price increase; harvesting furbearers, food animals; protecting grizzly bear
	15667-86			Novakowski		Fox trapping, Banks Island; removing troublesome "garbage" bears; wolf hunting, polar bears
	15699-705			Novakowski		On ROW; importance of muskrat trapping
103	15730-31	Dec. 15		Stein	CARC	Fish resource utilization re: pipeline personnel
	15752-53			Walker	CARC	Prime, Interior routes, Fort Yukon, Fairbanks corridor re: impact on fish resource
	15774-75			Steigenberger	CARC	Northern Yukon route - impact on fishing
	15822-23			Stein		Utilization of Big Fish River for fishing - impact on Arctic char population
104	15854-57	Dec. 16		Stein		Mackenzie study - domestic fishery
				Bayly	COPE/ITC	
	15881			Stein		Definition of significant fish populations
	15909-12			Steigenberger		Domestic fishing on North Slope, extent of utilization
	15941-52			Stein		Domestic fisheries - historical catch figures (Northern Yukon Fisheries Studies), present significance
				Steigenberger		
	15969			Walker		Impact of permanent road on Yukon North Slope fish resource
105	15988-91	Dec. 17		Stein		Ban on fishing by construction and non-construction personnel; problems of enforcement
	16087-91			Walker		Increase in fisheries re: improvement of access; recommendation re: control, regulation; conflicts between kinds of fisheries, resolution
				Stein		
106	16195-203	Dec. 18		Calef	CARC	Caribou population reduction re: Klondike prospectors; Steese 40-Mile herd hunted re: crossing Steese Highway; effects on caribou re: disturbance
	16207-09			Calef	CARC	Canning River Valley re: access for hunting; Dempster Highway access to winter range of Porcupine caribou
	16233			Calef		DeBock study re: caribou response to hunting on Dempster Highway
	16237			Calef		Caribou fear of man re: hunting from snowmobiles near Arctic Village
	16263-64			Lent	CARC	Attraction of animals to camp; Porcupine and Arctic caribou re: unrestricted hunting year-round, sale of caribou meat
107	16294	Jan. 12		McT-Cowan	EPB	Repeated migration through Old Crow
	16333-39			McT-Cowan	EPB	Construction workers utilizing the fish resource; domestic fishing; game management; access to wildlife; all-terrain vehicles; has damaged the pattern of hunting; harassment; terrain conditions may have greater influence in restricting access
				Wilimovsky		
	16369-75			Wilimovsky		Construction and camp employees - regulations re: fishing, recreation; domestic fishing sites, study, as a resource; access
	16397-98			McT-Cowan		Repeated caribou migration through Old Crow
108	16416-18	Jan. 13		Gourdeau	EPB	Statistics in ESP report from the general hunting licences and a survey by the N.W.T. government; actual hunting and activities; change in the northern native economy
109	16624-27	Jan. 14		McT-Cowan		Game management; access; hunting regulations; wildlife refuge; snowmobile; native game and fishing rights; construction worker - fishing
110	16770	Jan. 15		Bergerud	CARC	Native use of caribou; access
	16802-06			Bergerud		Native and non-native caribou harvests; management
				Calef	CARC	
				Lent	CARC	
	16856-60			Bergerud		Hunting pressure, regulations; monitoring of herd; census takings; other herds; law of diminishing returns re: native kill versus non-native kill.
				Calef		
				Lent		

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110	16863-65	Jan. 15	YK	Bergerud Calef	CARC CARC	Non-uniformity of hunting laws in the Territories; management of the Porcupine herd
	16867-68			Calef		Hunting on pipeline right-of-way; access re: seismic lines; all-terrain vehicles; no hunting zones
	16882-85			Lent Calef	CARC	Hunting factor in herd reduction; Nelchina and 40-Mile herds
111	16940	Jan. 16		Lent		Reindeer mistaken for caribou and shot
	16951-52			Lent		Year-round, no bag limit hunting of caribou, increases in hunting, Alaska
C-24	2395-97	Aug. 23	TL	E. Jumbo H. Deneron	Citizen Citizen	Make a living or partial living from trapping, fishing; food sources
	2408-11			Nahanni	NWT IB/MA	Land use maps of the Trout Lake area, showing traplines, permanent and temporary camps
	2415-16			E. Jumbo		People of Trout Lake make a living out of trapping
	2444-45		NB	H. Deneron		Use of Nahanni National Park; Cadillac Mines; disturbance to the wildlife
	2455			J. Antoine	Citizen	Movement of people into the settlement has made living off the land very difficult
	2457-65			Nahanni		Map of traplines, permanent and temporary camps in the Nahanni Butte area
C-26	2645-46	Sept. 9	FS	Lafferty	Citizen	Hunting and trapping re: deterioration at Fort Simpson; commercial fishing at Hay River
	2661-62			P. Nahanni	Citizen	Map re: trapline routes and travel routes
C-27	2733-34	Sept. 10		M. Lafferty		Spring hunt, snowshoes
	2736-39			Cowie	Citizen	Aviation revenue related to trapping re: decline; price of fur, up; ancestors, hunters
C-28	2786-87	Sept. 10	Wr	H. Hardisty	Citizen	Impact of highway construction re: Hire North camps; traditional income
	2795			H. Hardisty		Effect of Hire North camp
	2798-99			G. Hardisty	Citizen	Traditional way of life; damage to land, decrease in game
	2809-10			Sale	Citizen	Decline due to meetings; effect of decline
	2822-23			P. Nahanni		Map re: Fort Wrigley trappers, routes, animals trapped, mammals hunted
	2836	Sept. 11		Lousson	Citizen	Decline due to development re: highway at Hay River
	2843-45			H. Hardisty		Damage to hunting grounds; destruction of way of life; decrease in animals, decline in hunting
C-31	2985	Oct. 7	FR	Boggins	Citizen	White man - impact on hunting, fishing
	2989-92			Bosley	Citizen	Pine Point Mines - impact on trapping grounds, Paulette Creek - lake pollution
	2994-95			M. Beaulieu	Citizen	Impact of highway construction, mines, southerners on hunting, trapping, fishing
	3018-19			Menez	Citizen	Historical development of, white man impact on fur trade
	3027-28			Menez		Analogy - Dene takeover of southern Canada, dominance of hunting, trapping
C-32	3038-40	Oct. 8		Orbell	Citizen	Time allowed for hunting at Slave River Sawmill
	3054-55			Lockhart	Citizen	Fear of game and fish destruction re: pipe leak; livelihood; changes in traditional hunting because of school; Pine Point, hunting and trapping area
	3065-67			McConnell	Citizen	Traplines destroyed by cut lines; Pine Point area re: over-hunting; effect of planes, helicopters, skidoos on hunting re: buffalo
	3075-76			Boggins	Citizen	White takeover of hunting areas, cabins for trapping
	3080-81			Balsille	Citizen	Big game licence re: outsiders hunting meat for sport; rat hunting re: native extension from job; game wardens
C-33	3148-49	Oct. 9	FS	Schaeffer	Citizen	Welfare preferred over hunting, trapping, fishing
	3196			Leishman	Citizen	Trapping, a dying way of life
	3206-16			Liak	Citizen	Traplines destroyed by pipeline rupture; compensation; fish destroyed by oil spill

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C-35	3429	Oct. 22	LI	Martine	Citizen	Pipeline impact on traditional lifestyle
C-36	3447-51	Jan. 28	In.	Alonik	Citizen	Hunter trapper numbers in Inuvik District; interaction jobs/living off land; impact of seismic lines on hunting, fishing; muskrat trapping figures
	3455			C. Allen	Citizen	Impact of seismicity, helicopters on hunting of geese, caribou
	3456A			Raddi	Citizen	Trapping along Beaufort Sea coast
	3463-64			Hodges	Citizen	Decrease in game, fish numbers, game mismanagement
	3467			Albert	Citizen	Helicopter impact on geese hunting; caribou management
	3490-92			Adam	Citizen	Historical fur trade with Eskimo of Banks Island, Hudson Bay; protection for trappers from outsiders
	3495-96			Adam		Raising of reindeer herd, construction of slaughterhouse, fur factory; muskrat farming
	3526-28	Jan. 29		Sineok	Citizen	Legislation, funding re: protection, enhancement of hunting, trapping, loans for equipment
	3561			Garland	Citizen	Traditional fishing methods
C-38	3644-48	Feb.12		Alonik Rowe	Citizen CAGPL	Compensation to natives for disturbance of livelihood
	3671-74	Feb.15		M. Kailik	Citizen	Reindeer herding, whaling; impact of seismic testing on fish resource
	3689-90			McNeely	Citizen	Need for definition of "full-time trapper"
C-39	3756	Feb.18		Usher	COPE/ITC	Maps series of land use; hunting, fishing, trapping in Western Arctic
	3758			Usher V. Allen	Citizen	Inuvik Hunters and Trappers Association land use map
	3766-69			C. Allen	Citizen	Whaling off Kendall Island, caribou hunting, muskrat hunting
	3778			Thrasher	Citizen	Trapping, whaling, caribou hunting, fishing
	3781			V. Allen		Hunting as a way of life
	3794			Alonik	Citizen	Caribou hunting, whales, geese
112	17068	Jan.20		Bliss	GPC-D	Inuvik, Aklavik, Tuktoyaktuk, fish, bird, reindeer harvest, fur sales
	17111-14			Berger Bliss		Natives taking birds in Kendall Island Bird Sanctuary; hunting, trapping figures from E-SP report 74-42
	17125-26			Berger Bliss		Beluga whale harvest, Delta; bowhead whale population
113	17143	Jan.21		Hobart	GPC-D	Development in Mackenzie Delta area
	17157-62			Hobart		As part of development of Mackenzie Delta area, impact on native societies
	17171-76			Hobart		Inuvik has less access to fish and game; low frequency of hunting, trapping Delta area, figures
	17214-16			Hobart		Monetary value placed on wild meat to estimate native incomes trapping while working in gas/oil exploration; influence of technology
	17229-30			Hobart		Income from trapping, Coppermine
116	17653	Jan.24		Rempel	GPC-D-I	Effect of development on hunting geese, other waterfowl; increase in grizzly bear hunting; fur trapping, trap lines; domestic or commercial fisheries
	17659-61			Webb	GPC-D	Effects of off-shore construction on whale distribution and behaviour, harvest rates of whales by natives

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116	17665-70	Jan. 24	IN	Webb	GPC-D	Response of whales to hunters
	17693			R. Pederson	Citizen	Independent of Gulf employment at Coppermine
	17724-25			Webb		Trappers harvest and value of harvest
117	17772-73	Jan. 26		Webb		Fishing in Yaya Lake, over-exploitation, regulatory controls
	17826			Sider	GPC-D-G	Seasonal employment to supplement traditional lifestyles
118	17943-46	Jan. 27		Bayly Wopnford Tod	COPE/ITC GPC-D-S GPC-D-I	Hampering of traditional activities, camp food bought locally; Gemini-North report on native use of resources, trappers
120	18314-26	Jan. 29		Martell	COPE	Fur trade in delta, history; whaling industry; disturbance to wildlife
122	18494-97	Feb. 11		Sergeant	COPE/ITC	Prohibition of hunting in proposed whale reserve in western part of delta
	18519-21			Berger Sergeant		Justification of hunting prohibition in proposed whale reserve
	18530-32			Stirling	COPE/ITC	C.W.S. research - impact of resident, Alaskan sport hunting on polar bear population; economic value of polar bear resource
	18585-86			Barry	COPE/ITC	Barry route proposal re muskrat trapping, hunting
	18615-17			Sergeant		Distribution of whale catch in delta region; Inuit whale hunting in proposed reserve
	18623-26			Stirling		Polar bear hunting quotas in Canada, other countries
	18679-82			Sergeant	COPE/ITC	Balance between white whale reproduction rate, Inuit hunting; economic value of annual whale hunt in Mackenzie Delta
	18692-94			Stein	COPE/ITC	Regulatory measures, game fishing in delta lakes
	18705-14			Stirling Smith	COPE/ITC COPE/ITC	Quantity, value of annual seal, polar bear catch
128	19517	Feb. 18		Trudeau	COPE	Regulation of game fishing
129	19681	Feb. 19		Evans Speller	CARC MVPI	Enforcement recommendations for R.C.M.P., Canadian Wildlife Service, Territorial Game Branch, Fisheries and Marine Service
133	20134	Mar. 23	YK	Rowe	CAGPL	Cross-Delta route avoids areas near Delta communities
	20147			Jakimchuk	CAGPL	Prohibit hunting of grizzly bears by pipeline employees
	20154			Webb	CAGPL	Beluga whale hunt, Shallow Bay
	20174-75			Bayly Rowe	COPE/ITC	Shallow Bay, west Delta, east North Slope important meat fish sources for Aklavik
134	20231-35	Mar. 24		Webb		Possible impact of Shallow Bay crossing on whale hunt, recommended restrictions on boat, air traffic
	20250			Berger		Whale hunting, Shallow Bay area
	20259-62			Webb		Effect of hovercraft noise, other disturbances on whale hunt in Delta area
	20319			Webb		White whale hunt as indication of population
	20327-31			Webb		Monitoring survey of whale hunt, Mackenzie Bay; recommendations to help whale hunt
	20343			Rowe		Alignment near Travailant Lake crosses traplines
	20372-77			Webb		Impact on whale hunting, Mackenzie, Shallow Bays
	20392-93			Jakimchuk	CAGPL	Impact on muskrat trapping in Delta, cross-Delta route, most traplines in Delta to south of route
135	20433-37	Mar. 25		Jakimchuk		Impact of cross-Delta route on trapping in Delta
	20542-43			Hemstock	CAGPL	Impact of cross-Delta route on hunting, trapping areas of Delta communities
	20553-60			Hemstock		Native use of Delta area
136	20694-705	Mar. 26		Peet	MVPI	Recommendations of Fisheries Service to deal with impact of pipeline on fisheries; regulations dealing with fisheries in N.W.T.; information on domestic fisheries
	20712-18			Peet		Regulations, recommendations re domestic fishing

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	20726			Peet		Requests from communities to regulate fishing
	20730-54			Peet		Protecting domestic fisheries; importance to natives; impact of pipeline; monitoring; conflict of domestic and commercial
	20760-61			Peet		Enough fish to support domestic and commercial fishing, information available
138	20990-93	Apr. 6		Simmons	MVPI	Fish and Wildlife Service, position on control of hunting, trapping, fishing by pipeline workers; standards for licence
	21008-11			Mossop Stephen	MVPI MVPI	Control of hunting on Dempster Highway, regulations and enforcement
139	21081-84	Apr. 7		Stephen		Reduction of hunting quotas due to industrial impact on wildlife
140	21306	Apr. 8		Usher	COPE/ITC	NWT government granting of exclusive trapping rights on Banks Island to Trappers Association
143	21816-20	Apr. 14		Fumoleau	NWT IB/MA	Fur trade between 1900-20, depletion of fur resources
	21830-35			Fumoleau		Number of white trappers, depletion of furs; establishment of game preserves
	21837-38			Fumoleau		1937 Fort Resolution Boycott, demands for change in game management policies
144	21927-28	Apr. 15		Sanders	NWT IB/MA	Conflict with native hunting rights and Provincial preserves, parks
	21948-49			Scott	MVPI	Question of recognition of native customary law of hunting and gathering societies
	21953-54			Sanders		Question of recognition of hunting and fishing rights, aboriginal title
146	22272-74	Apr. 27		Jones	NWT IB/MA	Effects on trapping of large-scale clear cutting tree cutting, tree harvesting
	22285-92			Richardson	NWT IB/MA	James Bay project built on hunting grounds of Cree people; land claim settlement, land categories
	22301-10			Richardson		Sotrac, special company set up to help alleviate negative impacts of James Bay development; guarantee of rights under James Bay land agreement
	22326-34			Page	NWT IB/MA	Demise of the buffalo, end of traditional native way of life on the prairies
147	22351	Apr. 28		Page		Decline of buffalo on the prairies, late nineteenth century
	22379-85			Jones		Port Edward, B.C., fish cannery, native involvement
	22388-89			Jones		Respecting ownership of hunting grounds, north west B.C.
	22423-26			Richardson		Overuse by sports hunters, detrimental to subsistence, native, livelihood, suggestion of native ownership of wild animals
	22465-466			Young	NWT IB/MA	Loss of trapping areas due to damming, Nelson House, Manitoba
	22470-72			Jones	NWT IB/MA	At one time, native fishermen accounting for 50% of total fishing population, B.C.; fish cannery to alleviate unemployment
	22477-485			Nahanni	NWT IB/MA	Traditional lifestyles, Dene, interpretations of native culture by southern press
	22496-500			Nahanni		Interviewed hunters and trappers for the Land Use and Occupancy Research
	22525-537			Snowshoe	NWT IB/MA	Hunting and trapping, experiences, locations
148	22539-56	Apr. 29		Nahanni		Discussion over total number of trappers, NWT, sampling methodology
	22568-74			Nahanni		Territorial Incentive program, to supplement trappers income during times of low fur prices
	22633-69			Rushforth	NWT IB/MA	Report providing indices of hunting, trapping and fishing activities in the Great Bear Lake region
	22657-59			Rushforth		Great Bear Lake people traditionally hunters and fishermen, lived exclusively off the land in the past
	22664			Rushforth		Hamlet Trappers Association, caribou hunting
	22673			Kodakin	NWT IB/MA	The price of fur in Fort Franklin, 1974
	22694			Asch	NWT IB/MA	Reliance on bush resources, though fur trade collapsed
	22716-18			Asch		Gemini North report says hunting and trapping have greatly diminished

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149	22770-73	May.3	YK	Ritter	NWT IB/MA	History of the Peel River area, establishment of Peel River post; rise and fall of prices, fur trade
	22782-84			Ritter		History of the Peel River band, seasonal movements
	22792			Ritter		Places named after individuals still alive, system of registered trapping zones
151	23052-53	May.5		Irving	CYI	19 century Kutchin people, need for large hunting territory
	23062-63			Irving		Prehistoric Kutchin people, large territories needed to support even small population
	23094-95			McClellan	CYI	Yukon natives, trapping, trading for furs; fur prices, trading posts
	23101-06			McClellan		Hunting privileges, American soldiers, Canadian civilians, Alaska highway construction
	23135			Cruikshank	CYI	Resident hunting licences for U.S. army and civilian crews, Alaska highway
	23140-55			Johns	CYI	Waste of game, fish, caught by Alaska highway construction crews
	23160-61			Jacquot	CYI	Impact of Alaska highway on outfitters
152	23361-62	May 6		Notti	CYI	Special privileges for Alaskan natives not present in Land Act
153	23413-14	May 7		Sharp	CYI	Hunting and trapping, 1950's, economic venture paying its own way; providing supplement to commercial foods
	23450-51			Sharp		Men leaving families in town to go hunting, apprehension
	23463-70			Sharp		Number of hunters, trappers in Old Crow region, changes in hunting techniques; fishing
C-40	3810	Feb.23	AK	Sittichinli	Citizen	Decrease due to government interference
	3815-16			Elanik	Citizen	Changed because of oil companies' blasting
	3816-49			Bayly Usher	COPE/ITC COPE/ITC	Maps of traditional areas of hunting, trapping, and fishing
	3819-22			F. Elanik	Citizen	Traplines, Tununik, Kendall Island, Gold Bay, Shingle Point, Herschel Island, Ptarmigan Bay; caribou hunting areas
	3830-37			F. Elanik Archie	Citizen	Importance of hunting, trapping, fishing areas to people of Aklavik; traditional rules for hunting, trapping area boundaries
	3846-48			Bell Greenland	NWT IB/MA Citizen	Land use maps of traditional areas of hunting, trapping, fishing
	3849			Ayrish	Citizen	Women hunters and trappers
	3869			Greenland		Map of hunting and trapping areas that will be drilled by Shell, western side of Richardson Mountains
	3900-05			Kilolaitak	Citizen	Hunting polar bear, caribou
	3906-07			Palvik	Citizen	Learning to hunt
C-41	3923-26	Mar.3	HOL	Memoganak	Citizen	Traplines on Victoria Island; fox traps at Glenelg Bay; hunting polar bears at Nelson Head; impact of oil spill on fishing
	3928-30			Joss	Citizen	Trapping on Reid Island, fishing in Fish Lake; hunting grounds around Holman
	3935-36			Pagotak	Citizen	Trapline on Reid Island; importance of land to native people
	3938-40			Inuktalik	Citizen	His trapline; hunting bears at Nelson Head; seal hunting; whales at Berkeley Point
	3945-50			I. Aleekuk	Citizen	His trapline; hunting caribou; seals, source of income
	3951-52			Inuktalik		Learning to hunt
	3962			Aivek	Citizen	Trapping with skidoo
	3962-73			R. Goose	Citizen	Land use by Holman Island natives, catches in caribou, white foxes, seals, polar bears, muskox
C-42	4023-25	Mar.4	S ACHS	Usher	COPE/ITC	Maps of Inuit land use and occupancy, extent of hunting, trapping and fishing
	4028-29			P. Essau	Citizen	Importance of land to trappers; fox traps destroyed by oil company's camp

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C-43	4079-81	Mar. 5	SACHS	P. Essau	Citizen	Trapping on Banks Island, traplines for fox, seals, polar bears, caribou, muskox
	4081			Nasagaluak	Citizen	Use of land per month for hunting and trapping
	4120-25			A. Carpenter P. Essau	Citizen	Land use maps, hunting areas on Banks Island, quotas
	4123-25			A. Carpenter		Muskox, hunting quota; hunting geese in spring, seals, polar bears
C-44	4217-19	Mar.8	TUK	R. Potiak	Citizen	Living off the land, livelihood
	4230-33	Mar.9		Usher		Introduction of land use maps, report "Eskimo Land Use and Occupancy in the Western Arctic" by Usher; Paulatuk maps, land use activity on coast between Horton and Croker Rivers
	4233-36			B. Pokiak	Citizen	Trapping seals on Baillie Island, polar bears, foxes; "fur bank"
	4238-39			Jacobson	Citizen	Trapping wolverines, rats
	4248-50			Felix	Citizen	Hunting fox; seals, polar bears on Pullen Island, Martin near Anderson River
	4254-55			G. Ruben	Citizen	Traditionally, natives killed out of necessity, did not overkill
	4276-80			M. Noksana	Citizen	Trapping on Pullen Island, seal hunting, whaling; impact of seismic, decline of game
	4288			Andreason	Citizen	Community Hunters and Trappers Association, ability to decide on laws that concern them
	4301-02			Gruben	Citizen	Traditional hunting, plentiful wildlife; decrease in game today
	4314-15			Raddi	Citizen	Decline in fish catches due to creeks plugged by oil companies' road construction
C-45	4393	Mar.10		Voudrach	Citizen	Disappearance of moose from Tuk area
	4396-99			M. Noksana	Citizen	Whaling in Beaufort Sea after August 20, interference of seismic activities
C-46	4471-75	Mar.11	PAUL	G. Ruben	Citizen	Hunting seals in Brown's Harbour; waste of hides by government scientists; decline in number
	4479-81			T. Green	Citizen	Traplines, hunting near Horton River
	4521			T. Green		Land use, dependency on land
C-47	4528	Mar.13	ARR	H. Andre	Citizen	Trapping at Tree River, fishing in Fish Lake
	4532-33			J. Andre	Citizen	Fish dying because of seismic, game declining
	4541-43			G. Andre	Citizen	Game declining because of seismic
	4566-67			N. Norbert	Citizen	Scarcity of game
C-48	4705-35	Apr.30	FS	R. Brunt	Citizen	Mismanagement of buffalo population by Game Office; cruelty of government hunts
C-52	5274-75	May13	CAL	Chief Snow	Citizen Citizen	Damage to animals, Kootenay Plains; effect on native ways
C-53	5432-33	May14		Getty	Citizen	Traplines, hunting areas, flooded with building of Big Horn dam
155	23674-84	June 30	YK	Watkins	NWT IB/MA	Numbers involved, relation to rates of native unemployment, NWT
	23715-16			Watkins		Rushforth's study, value of country food; reasons, inability to continue traditional ways full-time
	23777-83			Forrest	NWT IB/MA	Abolishment of special status, Alaska natives, 1991; no broader rights than other Alaskans
C-59	6490	May 26	TOR	D. Matthews	Citizen	Arctic white fox, fur trade, impact on aboriginal customs
C-62	6895-901	May 31	MTL	Gaccia	Citizen	Under James Bay Agreement, natives granted hunting, trapping and fishing rights over entire territory
C-63	7161	June 1		Penn	Citizen	Game regulation for northern Quebec

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157	24067-70	July 5	YK	Hobart	CAGPL	Economic impact of high fur prices, decline of old way of life
	24091-111			Hobart		Decline in trapping according to census data
	24132-38			Hobart Berger		Dual economy, hunting during rotations; Preference for wage economy
158	24164-66			Hobart		Fur market crash, 1960's; values of prices assigned to meat, fish, etc.
	24170-79			Hobart		Transformation of native economy due to fur trade
160	24624-45	July 8		Asch	NWT IB/MA	Amount of country food taken, eight communities; trapping, failure to supply natives with cash income; pressures causing people to turn to wage employment
	24687-91			Rushforth	NWT IB/MA	Role of women in trapping
162	25069	July 13		Trusty	CAGPL	Condition of employment, no participation by all employees
165	25515-16	July 19		Ellwood	Foothills	Workers allowed to fish if he has permit and does not violate regulations
	25568-70			MacLeod	Foothills	Depletion of wildlife resources, increase in wage employment, part-time hunters and trappers
166	25785-89	July 20		Brody	COPE/ITC	Fur trading, part of household income
	25804-17			Brody		Value of food obtained by hunting, evaluating mere act of hunting
167	25866	July 21		Brody		Southampton Island, white fox returns, fluctuations
	25893-99			Usher	COPE/ITC	Contact with whites, new way of life based on trapping, hunting; material gains; collapse of fur trade
169	26251-56	July 23		Stanley	NWT IB/MA	Importance of fishing to Lummi people of the Pacific Coast; intrusion by white fishermen, outside capital; establishment of native aquaculture business
	26292-309			Ruttan	NWT IB/MA	Benefits derived are in several forms; fisherie, wildlife resource
C-68	7888-93	July 16	FP	J. Thom	Citizen	Land use research map for Fort Providence, Kakisa Lake area
	7910			J. Thom		Storing of barges, possible impact on fishing
C-69	7927-35	July 17	KL	H. Simba	Citizen	Plans to build dam, Kakisa River, possible impact on fishing
	7946			J. Thom		Land use research in the community, number of trappers left
C-70	7962	Aug 9	RE	A. Charlo	Citizen	Plentiful game before white man's arrival
	7967			J. Lacordne	Citizen	Livelihood depends on good hunting and fishing areas
C-71	8015	Aug 10		C. Football	Citizen	Fishing and trapping spoiled
	8018			F. Lafferty	Citizen	Pulling dog sleds and toboggans over pipeline, effect on trapping and hunting
	8057			J. Apple	Citizen	Value of land to natives, trapping
C-73	8158-50	Aug 12	IIM	Chief Beaulieu	Citizen	Importance to Dene, the land is their living; difficulty of obtaining food during trapping period
	8161-63			J. Rabesca	Citizen	Dependence on land, animals for survival; fear that pipeline will destroy everything
	8168-69			J. Roamie	Citizen	Exploration activities spoil land, hunting and fishing areas
	8177-80			J.Z. Fish	Citizen	Long distances to trap furs; dependence on land, effect of pipeline breakage on land, animals
	8184			P. Beaverho	Citizen	Dependence for food, clothing, money
	8194-95			P. Nitsiza	Citizen	Depend on land, animals for clothing, food, money; fear of oil spill destroying hunting and fishing areas
	8200			I. Zoe	Citizen	No caribou in Lac La Martre area; fish decreasing
	8208			M. Mantla	Citizen	Depends on hunting, trapping, fishing, his way of life

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C-73	8210	Aug. 12	LLM	H. Alexis	Citizen	Oil spill would destroy hunting, trapping, fishing areas, impact on way of life
	8216-17			M.A. Rabesca A. Simpson	Citizen Citizen	Hunts with husband, dependence on game for food and furs
	8226			M. Moosenose	Citizen	Dependence on husbands who hunt and trap; women fishing
	8237			M. Tlokka	Citizen	Pipeline will destroy game, native reliance on land
C-74	8254-56	Aug 13	RI.	B. Apple	Citizen	Land provides needs, scarce in developed areas, furs
	8258-59			A. Gon	Citizen	winter activities, fear of future scarcity
C-75	8312	Aug 21	CI.	P. Blanco	Citizen	catches look unhealthy after exploration
	8327-29			G. Blondin	Citizen	Areas where plentiful: white fox
	8342			Blair	Foothills	compensation for losses due to pipeline
198	31233-35	Oct.14	YK	Witty	MVPI	Trappers in Fort McPherson; trapping as a supplement to income rather than full-time
	31320-27			Berger Gates Witty	MVPI	Welfare as subsidy to hunters and trappers similar to that given to fishermen and farmers; trapping is part-time employment; trapper assistance grants from Wildlife Division of Department of Natural and Cultural Affairs
201	31773-76	Nov.16		Marshall	CAGPL	Location of delta community traplines; travel routes in relation to delta pipeline route proposals
202	31911-19	Nov.17		Bayly	COPE/ITC	Natives want jobs and hunting
203	32169-70	Nov.18		Veale	CYI	Not permitted for construction workers; hunting ban on Dempster Highway; community control over hunting access; ten-year residency requirement before hunting licences issued; gun control measures; camps not allowed to use local fish as food; quotas on hunting, trapping, fishing
204	32323-24	Nov.19		Parker	NWT Govt	Wildlife management by Game Advisory Council; outpost camps
C-75	8345-47	Aug 21	CL	J. Gully	Citizen	Effect of exploration, forced to move camps, only way of living
C-76	8382	Aug 25	DFT	J. Martin	Citizen	Greatly reduced as result of increased fires
C-77	8400-01	Aug 26		I. Sangris	Citizen	Becoming difficult, animals will not go near any developed areas
	8403			M. Betsina	Citizen	Lines destroyed by whites while prospecting
	8424-25			G. Doctor	Citizen	Smell of gas drives animals away, Game Department destroy fur with poison: migration routes will change
173	26943-44	Aug. 19	YK	Kyllo	COPE/ITC	When hunting, sometimes only the man leaves, other times whole family
175	27293-95	Aug. 23		MacLeod	NWT/CC	Not included in survey of business community, will not take advantage of pipeline activity
178	27623	Aug. 26		Pritchard Merrett	MVPI MVPI	Difficulty in continuing if wage employed, overlapping of seasons
180	27975-77	Sept. 7		Whiteford Nessee	MVPI MVPI	Prohibition by construction personnel, restricting rights of Canadian citizens; recreation
181	28082	Sept. 8		LeClair	MVPI	Against restricting non-northerners from activities
193	30094	Oct. 5		Hernandez	EPB	Peter Lake, tributary of Campbell Lake, fishing should be monitored
	30102			Hernandez		Pipeline personnel; no firearms or hunting permitted
	30193			Templeton	EPB	Land use plan; zoning of hunting and trapping areas

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XVII	1997	Mar.13	YK	Watson	CAGPL	Report on Great Bear River, two possible dams
XXXII	4813-18	Apr. 18		Purcell	CAGPL	Great Bear Dam
47	6252-59	June 3		Goudreau	EPB	James Bay, land claims, participation in construction
49	6578 6616-20	June 5		Horte Horte	CAGPL	James Bay - native employment, participation James Bay, agreement in principle with Quebec Government

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50	6622-28	June 6	YK	Horte	CAGPL	James Bay Agreement - policy principle
	6721-22			Horte		Columbia River B.C. - Board of Review
C-8	684-85	June 25	F.F.	Touchou	Citizen	Proposed dam on Great Bear River
	728-29			D.Gully	Citizen	Planned dam on Great Bear River
	751			G.Kodakin	Citizen	People in Fort Franklin against the dam
C-9	780	June 26		Tutcho	Citizen	Great Bear Dam; environmental damage
C-10	837-42		W.L.	J. Blondin	Citizen	Great Bear Dam, James Bay
	855			F. Wido	Citizen	Opposition to Great Bear Dam
	860	June 27	F.N.	G. Meneko	Citizen	Opposition to Great Bear Dam
	891			J. Menico	Citizen	Native people against Great Bear Dam; concerned about environmental impact
	894			R. Clement	Citizen	Hydropower vs. power from coal
	904			P. Macaulay	Citizen	Great Bear Dam; impact on people of Willow Lake
53	7183	Aug. 13	WH	D. Joe	CYI	Analogy to pipeline and people of Old Crow
	7256-58			Wah-Shee	NWT IB/MA	James Bay power project
C-23	2303-04	Aug. 14		D. Greg	Citizen	James Bay impact
	2349-50			I. Warner	Citizen	Supports dam development
	2354-55			C. Taylor	Citizen	Sensitive issue in Yukon
	2373-75			R. Genelli	Citizen	Yukon experience with Inquiries re dams
63	8997	Sept. 17	YK	Beer	Foothills	Site generator; conversations with NCPG; existence of sufficient hydroelectric potential; cost of power
65	9491-93	Sept. 19		Davison	Foothills	Geotechnical problems at hydrodam at Snare River
67	9907-08	Sept. 23		Kosten	Foothills	Differences from pipeline development in shift work
76	11212	Oct. 21		Parker	CARC	Rampart Dam controversy in Alaska
77	11470	Oct. 22		Roed	CARC	Edge of the shield corridor, region adjacent rich in potential hydroelectric power
85	12693-12708	Nov. 12		Bayly Hemstock Williams	COPE/ITC CAGPL CAGPL	Power for compressor stations, gas savings, Great Bear dam, impact, availability
85A	12790			Scott	MVPI	Electrically powered compressors
95	14423-24	Dec. 3		Banfield	CAGPL	James Bay, destruction of caribou winter ranges through flooding
96	14559-60	Dec. 4		Banfield Veale	CYI	James Bay; flooding of a caribou wintering range
	14566-68			Banfield Veale		James Bay, Dempster Highway - bisecting and/or partial elimination of a wintering range
98	14864	Dec. 8		Scott		Report, native people, hunting of birds, James Bay
103	15809	Dec. 15		Stein	CARC	On Great Bear River
104	15971-73	Dec. 16		Walker	CARC	Aishihik Lake project; environmental protection legislation; construction plans and practices
106	16199-201	Dec. 18		Calef	CARC	Churchill Falls Dam - Labrador re: effects on caribou population
108	16419-20	Jan. 13		Gourdeau	EPB	James Bay - land claims settlement, commencement of the James Bay project prior to land claims settlement
C-27	2730	Sept. 10	FS	Hammond	Citizen	James Bay Project - Indians lost land
C-29	2870	Sept. 12	JMR	Kazon	Citizen	Bennett's Dam in B.C. - no benefit to people
C-30	2968	Oct. 6	PP	Berger		Energy corridor concept
C-33	3187	Oct. 9	FS	Applewhite	Citizen	Tulson Dam - development, impact on community
	3201-02			Christiansen	Citizen	Benefit of hydro power in Fort Smith
C-34	3320	Oct. 16	YK	Humphreys	Citizen	James Bay project re: damage to land and people
116	17673-74	Jan. 24	IN	Rempel	GPC-D	Cofferdam or dyke to prevent siltation in Yaya Lake
143	21757-62	Apr. 14	YK	Manuel	NIB	James Bay, cash settlement, land transfer
144	21906-07	Apr. 15		Sanders	NWT IB/MA	James Bay land claims settlement
	21927			Sanders		Problems with Quebec Boundaries Extension Act of 1912 and James Bay development

HYDROELECTRIC DEVELOPMENT (continued)

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145	22100-01	Apr. 26	YK	Brownstone	NWT IB/MA	Cabora Bassa project, Mozambique
146	22234-54	Apr. 27		McCullum	NWT IB/MA	Development of major projects at James Bay, Churchill River diversion, north western British Columbia
	22259-60			McCullum		Destruction of LG-2 construction camp at James Bay project
	22279-98			Richardson	NWT IB/MA	James Bay hydroelectric project, land claims settlement
	22298			Richardson		Nottaway - Broadback - Rupert complex
	22298-307			Richardson		James Bay land settlement, land categories
	22307-10			Richardson		Nottaway - Broadback - Rupert project
	22311-22			Young	NWT IB/MA	Manitoba Hydro Project, northern Manitoba; Nelson River Diversion
147	22364-65	Apr. 28		McCullum	NWT IB/MA	James Bay project, job creation; lessons to be learned from large scale projects
	22375-76			Richardson	NWT IB/MA	Problems of imposing form of municipal government in James Bay area
	22406-416			Richardson		James Bay project, impact on Cree culture, employment
	22430-438			Richardson		James Bay, employment; willingness to work on hydro developments, Northern Manitoba
	22448-452			Young	NWT IB/MA	Manitoba Hydro, native employment, training
	22464-466			Young		Manitoba Hydro, diverting Churchill River, loss of trapping areas; water supply affected at Nelson House
149	22819-23	May. 3		Simpson	NWT IB/MA	Problems with the Aswan dam, Egypt
	22911-12			Simpson		Aswan dam, Egypt
	22916-17			Simpson		Hiring of native people, James Bay
153	23418	May 7		Sharpe	CYI	Construction workers for Anvil Mine came from completed Hudson-Hope Dam project
C-52	5267-69	May13	CAL	Chief Snow	Citizen Citizen	Dam on the North Saskatchewan River, Kootenay Plains
	5395			C. Osborne	Citizen	James Bay, haphazard planning
C-53	5424-34	May14		Getty	Citizen	Impact of the construction of the Big Horn Dam, North Saskatchewan River
	5545-46			Crouteau	Citizen	WAC Bennett Dam, example of building without native consultation
C-54	5655	May17	EDM	Dickinson	Citizen	James Bay
C-57	6197	May20	WINN	F. Bonokoski	Citizen	Lake Winnipeg - Churchill - Nelson River hydroelectric project flooding communities without prior land settlement
	6248-50			H. Spence	Citizen	Northern Manitoba project, danger of reserve flooding, formation of Northern Flood Committee
	6257-59			A. Spence	Citizen	Reserve of Chemahawin Band on Cedar Lake expropriated for hydro development, impact on native people
	6261-63			B. Teixeira	Citizen	Lake Winnipeg - Churchill - Nelson Rivers project, damage to native lands
C-59	6411-13	May 26	TOR	N. Zlotkin	Citizen	Northern Ontario, closing of dam by Ontario Hydro, damage to Indian reserves
C-62	6888-94	May 31	MTL	Poirier	Citizen	Terms of James Bay Agreement
C-63	7056-59	June 1		Boucher	Citizen	Manic-Outordres, James Bay, exporting electricity to US; new dams built
	7073-80			Diamond	Citizen	James Bay project, Agreement
	7146-47			Langston	Citizen	Need for cut back on electricity use
	7153-63			Penn	Citizen	James Bay Agreement, land claims
159	24316-17	July 7	YK	Boorkman	CAGPL	Impact of Alyeska pipeline on ability to provide sufficient service, Alaska
166	25744	July 20		Ellwood	Foothills	Experiences of Manitoba Hydro re taverns at construction camps
169	26298	July 23		Ruttan	NWT IB/MA	Fisherie resource threatened by pollution, increased disturbance caused by Bennett and other dams on the Peace, Athabasca, Slave rivers

HYDROELECTRIC DEVELOPMENT

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C-69	7927-28	July 17	KL	H. Simba	Citizen	Plans to build dam, Kakisa River, possible impact on local people
170	26389-90	Aug. 17	YK	MacLeod	Foothills	Use of multipliers, projection of secondary job creation
180	27908	Sept. 7		Nessel	MVPI	Local residents in relation to project hired at St. Mary's Dam in Southern Alberta
	27983-84			St. Eloi	MVPI	Kitimat-Kemano Alcan project, dry camp unsuccessful
194	30430-31	Oct.6		Lipsett	MVPI	Unlikely energy source for powering oil pipeline pumping stations
195	30636-37	Oct.7		Fowler	CAGPL	BP Alaska - 69 KW power distribution system, winter construction
196	30769-70	Oct.12		Skinnarland	CARC	Robert Moses Power Plant, St. Lawrence River; Arrow Dam, Columbia River; Portage Mountain Hydro Electric Development; Asbestos Hill Project, Hudson Straits; James Bay Hydro Electric Project
	30882-83			Skinnarland		James Bay Project from Nottaway, Broadback and Rupert rivers; initial announcement; second went to La Grande River; cost of project

ICE FOG

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XXXI	3913	Apr.16	YK	Purcell	CAGPL	Location, compressor stations
	3948			Koskimaki	CAGPL	Water emissions, compressor stations
XXXII	4143	Apr.18		Koskimaki		Temperature inversion
106	16274	Dec. 18		Lent	CARC	Result re: construction of Trans-Alaska Pipeline at Fairbanks
115	17564-67	Jan.23	IN	Stamberg	GPC-D-S	Parsons Lake gas field; possibility of interference with aircraft traffic
116	17648	Jan.24		Rempel	GPC-D-I	Gas plants produce heat island effect, fog, ice fog
180	28015	Sept. 7	YK	Bayly Nessel	COPE/ITC MVPI	Reduction of ice fog by lights at night

ICINGS AND SPRINGS

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XIX	2181	Mar.17	YK	Clark	CAGPL	Icings in rivers
XX	2392-94	Mar.18		Clark		PAAG concern; at minor river crossings; water supply depletion for overwintering fish
XXI	2476-78	Mar.19		Clark		Response #38, icings & blockage of water flow
XXII	2598-2607 2626-33	Mar.20		Clark Cooper	CAGPL	Flow under frost bulb, chilled pipeline, insulation, berm ice dam causing icing, culverts, fish over-wintering, aufeis, spring run-off, river gradients - flow over icing, scour
XXIII	2733-35	Mar.21		Clark Templeton	EPB	Icing from winter flow, culverts, Chick Lake
XXIV	2807-08	Apr.7		Williams	CAGPL	Ice bridge on snow road
XXVI	3240	Apr.9		Clark		Study of icings
	3269-70			Scott Clark	MVPI	Surface water pools, icings
XXVIII	3452-55	Apr.11		Cooper		Surfacing ground water, growth of icings
	3459-66			Scott		River crossings, ground water surfacing, new icings, stress problems
	3467-71			Scott		Icing explosions, extent
	3476-80			Clark		Ground water and ice, open system pingoes
	3493-96					Deep springs, fish overwintering areas
42	5477-79	May 21		Scott Hurd	CAGPL	On ROW
46	6108-09	June 2		Adam	EPB	Icing control measures
72	10774-75	Oct.15		Lewis	MVPI	Spring floods; ice cover re: protection to stream beds, aufeis deposits
85	12730-37	Nov. 12		McCart Williams	CAGPL CAGPL	Springs for water withdrawal, Firth River, fish impact
104	15930	Dec. 16		Millen	CARC	Icing in fish culverts
136	20613	Mar.26		McCart	CAGPL	"Dew line route" on North Slope downstream of springs in Firth, Malcolm Rivers and Fish Creek

IMPACT - CULTURAL

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47	6242-58	June 3	YK	Gourdeau	EPB	Land - man relationship; acculturation
C-5	347-382	May 28	Hay River	E.Dean	Citizen	Collision of different ways of life
	410-417			Stewart	Citizen	Large influx of white people to Hay River area
C-6	480-576	May 30		Hay River Hearings		Impact on Indian culture, language
	578-595	May 31		Camsell	Citizen	Preservation of the native ways
C-7	608-72	June 24	F.F.	F.F.Hearings		Changes in the way of life; impact of white men
C-8	688-771	June 25		Denis	Citizen	Preservation from outside world

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C-9	774-833	June 26	F.F.	Futcho	CITIZEN	Loss of traditional way of life
C-10	836-70	June 26	W.L.	Citizens		Desire by native people to maintain traditional way of life
	872-983	June 27	F.N.	P. Andrew, et al		School programs, impact on native identity, language
C-12	1067-1149	July 9	F. McP.	Citizens		Community hearings, Fort McPherson
C-14	1292-93	July 11	O.C.	C. Charlie	Citizen	Changes brought about by arrival of white man
C-15	1363-1476	July 12		Citizens		Community hearings, Old Crow
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
	1715-65	July 17		Citizens		Community hearings, Fort Liard
53	7072-73	Aug. 13	WH	Trusty	CAGPL	Impact of influx of southerners
C-18	1766-1834	Aug. 5	FGH	Citizens		Changes in & erosion of traditional ways
C-19	1835-1908	Aug. 6		Citizens		Changes in & erosion of traditional ways
C-20	2033-34	Aug. 7		J. Charney	Citizen	Pipeline impact on Dene unity with the land
C-21	2094-96	Aug. 9	NW	G. Monuik	Citizen	Effects of white contact on natives
	2196-97			J. Ross		Conflict in young people
	2387-88			B. Cooper		Attitudes of southern workers towards natives; rape cases
106	16154-55	Dec. 18	YK	Father Fumoleau	NWT IR/MA	History of Indian people of NWT re: results of early exploitations of the resources
C-24	2414	Aug. 23	TL	J. Antoine	Citizen	Trout Lake is a traditional community, people live in the Indian way, not so in other areas
C-25	2502-11	Sept. 8	FS	Black	Citizen	Cultural identity, Dene people, land claims; local government - need to reflect bicultural community; education, training programs
	2576-80			Casavant	Citizen	Crash vs. controlled development re: culture; alcoholism, employment
	2583-87			Hammond	Citizen	White man impact on Dene people
C-26	2650-51	Sept. 9		Paullette	Citizen	White man's effect on Indian re: pride, culture, identity, way of life
	2660			P. Nahanni	Citizen	Destruction of Dene culture by pipeline; survival unrealistic
	2699-712			Lamothe	Citizen	Native culture is not dead; residential schools, effect on family structure; plea for mutual understanding
	2774			Grnon	Citizen	Eskimo culture better now
C-28	2821	Sept. 10	Wr	G. Nayally	Citizen	Change due to influx of white
C-35	3398-402	Oct. 22	LI	Wheeler	Citizen	Alyeska Pipeline construction - associated alcohol use, increased crime, divorce rates; Frobisher Bay study re: outside worker abuse of native women; impact of short-term high wage employment on natives men re: withdrawal from land-based economy; strength of Dene family
C-36	3523-43	Jan. 29	I N	Sineok	Citizen	Government programs, legislation re: preserving traditional lifestyles, aiding natives' transition to industrial, commercial economy; white native contact-impact on nuclear family; matriarchal society; land ownership; Hobart report re: cultural replacement policy; impact of fur traders, church on Indian culture; children - lack of ethnic polarity; alcohol use - detrimental impact; family financial administrators, educational probation
C-38	3652-53	Feb.12		Allison	Citizen	Anchorage residents - cultural change associated with transition from low to high density housing
113	17138-50	Jan.21		Hobart	GPC-D	Mackenzie Delta area, historical background, overview
	17158-60			Hobart		Effects of development on native attitudes towards traditional skills, lifestyle
	17177-85			Hobart		Impact of northern schooling on native children.

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113	17186-209	Jan. 21	IN	Hobart	GPC-D	Study models; effects of education, Mackenzie Delta; acculturation; television; native values, changes; identity loss; Ukrainian example; dependence on welfare; oil/gas industry jobs; employment gives independence ; consequences of "going back", "going forward"
	17224-26			Hobart	GPC-D	Impact of television, Dempster highway, school
	17257			Hobart		Native workers reactions to separation from family
	17264-66			Hobart		Young native occupational aspirations
	17275			Hobart		Difficult to compare differently acculturated communities like Tuk and Coppermine
117	17879	Jan.26		Bayly Sider	COPE/ITC GPC-D-G	Impact on culture, language, group interaction
153	23420-22	May 7	YK	Sharp	CYI	Families of construction crew unwilling to mix with the native population, creating cultural split
C-52	5343-47	May13	CAL	P. Elder	Citizen	Possible impact without native control of northern government
157	24065-72	July 5	YK	Hobart	CAGPL	Historical cultural impact along Mackenzie corridor; acculturation, frontier culture
158	24213-19	July 6		Hobart		Greater rate of acculturation, due to higher degree of contact, among Dene, Inuit as compared to Greenland, Alaska
159-A	24536	July 7		Boorkman	CAGPL	Alaska, small communities
160	24637-41	July 8		Asch	NWT IB/MA	Debate between Asch, Hobart re degree of acculturation among Dene; continued reliance on traditional activities; pressures causing people to turn to wage employment
	24658-74			Asch Bayly		Hobart's theory of acculturation; use of models; distinction between coercion, free choice
	24757-60			Rushforth	NWT IB/MA	Low rental housing projects; movement of Wrigley Community across the river
167	26048-50	July 21		Brody	COPE/ITC	Rate of adoption of Christianity by native people
172	26827-46	Aug. 18		Dittrich	COPE/ITC	Overall picture of impact of white man's culture in north
184	28452-57	Sept. 14		Kehoe	COPE/ITC	Definition; discrediting of native lifestyle, loss of identity, effect on children; result of increased incidence of mental illness
	28464-66			Kehoe		Effects of acculturation, mental health; development can bring destructive changes if affected society not taken wholly into account
	28471-79			Atcheson	COPE/ITC	Adverse effect on natives and lifestyles, mental illness, need for controlled development, more native control
	28484-86			Atcheson		Erosion of ways, loss of identity, native solutions
	28491-93			Atcheson		Education curriculum meaningless to natives, children labelled as disordered
	28512-14			Kehoe		White established northerners unable to cope with development, encourage community participation
185	28667	Sept. 15		Hildes	COPE	New sets of values less homogeneous than aboriginal culture
192	29976	Oct. 4		Krauss	MVPI	Must not lose native languages to development
	29980-81			Krauss		Pipeline will be fatal to survival of native languages
203	32132-34	Nov.18		Veale	CYI	Impact of development on Old Crow culture

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XXI	2524	Mar. 19	YK	Mercredi	Citizen	Income for natives who adapt to southern society
XXVIII	3534	Apr. 11		Scott	MVPI	Design, construction procedures
XXXVII	4783-84	May 13		Dau	CAGPL	Socio-economic monitors, duties
XXXVIII	4830	May 14		Williams	CAGPL	Snow fencing more economic than harvesting from lakes
XXXIX	5047	May 15		Williams		Fort Good Hope - impact of construction camps
42	5572	May 21		Genest	CAGPL	Looping, employment opportunities
43	5663	May 22		Gibbs	Foothills	Document, "National Economic Effects of Applicant's Proposal"
	5711-13			Templeton	EPB	National impact
44	5738-51	May 23		Bell	NWT IB/MA	Inspectors, monitoring
45	5931-32	May 24		Bayly	COPE/ITC	Value of the land as a source of food supply
	5957-60			Bayly		Evaluation of reports by CAGPL
47	6240-62	June 3		Gourdeau	EPB	Change in traditional economy with pipeline jobs
49	6491-93	June 5		Horte	CAGPL	Are Northern consumers subsidizing the U.S.?
C-4	240-252	May 28	Hay River	Tetrault	Citizen	Effect of pipeline on small businessman
	263-272			Stewart	Citizen	Commercial fishing would be unable to compete with wages offered by pipeline
	293-300			Morin	Citizen	Impact of Freshwater Marketing Board on commercial fishing
	309-312			Studney	Citizen	Cost to consumer to switch to gas
C-6	480-576	May 30		Hay River Hearings		Of pipeline on hunting, trapping, fishing
	579-595	May 31		Camsell		No advantages to native people from development
C-7	606-672	June 24	F.F.	F.F. Hearings		Change in the way of life; scarcity of animals
C-9	774-833	June 26	F.F.	Tutcho	Citizen	Loss of traditional way of life
C-11	1024	July 8	F. McP.	M. Firth	Citizen	Escalating cost of fuel, transportation
C-15	1363-1476	July 12	O.C.	Citizens		Community hearings, Old Crow
C-16	1585-87	July 13		R. Sharpe	Citizen	If gas brought to community, men working to supply wood would be unemployed
	1639-			B. Webber	Citizen	Employment after the pipeline is completed
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
56	7854-56	Aug. 18	YK	Horte	CAGPL	Increased wages; greater employment
58	8221-32	Aug. 20		Blair	Foothills	Increased revenues for N.W.T. from a pipeline; improved and increased transportation and communication facilities
51	6754-60	Aug. 11	WH	Smith	Gov't Yukon	Employment opportunities, wages, provision of goods and services, cost of living to be affected
	6810-15			Hemstock	CAGPL	Impacts generally applied to all routes and corridors; employment conditions vary as length of pipeline and construction spreads and scheduling differ; workforce required; available workforce; operational employment; economic development
53	7118-39	Aug. 13		Trusty	CAGPL	Economic goals of Mackenzie region
	7142-43			Trusty		Lesser impact of prime route
	7191-92			Joe	CYI	Land claims would allow natives to share in development
	7211-22			Sprecker	CYI	Relationship between population increase and crime in Alaska
	7224-39			Sprecker		Inflation in Alaska
54	7578	Aug. 14		Weedon Parker	CARC CARC	Studies completed re: El Paso route and effects; cost of studies; attempt to umbrella studies and research
C-20	1922-26	Aug. 7	FGH	N. Kakfwl	Citizen	Concern that natives will have neither jobs nor land for economic base
	1946-48			M.R. Drybone	Citizen	Effects of Alaska pipeline on prices
	2045			B. Edgi	Citizen	Cost of food & wildlife
C-21	2210	Aug. 9	NW	W. Fraser	Citizen	Inflation
C-22	2228-30	Aug. 11	WH	C. Pearson	Chamber of Commerce	Pace rate of development
	2287-89	Aug. 11		A. Netherton	Citizen	Effects of intense 3 year construction time-table

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C-23	2309-11 2313-15 2365-71 2372	Aug. 14	WH	R. McKaymie A. Fekete A. Cuyret R. Genelli	Citizen Citizen Citizen Citizen	Wage & price controls Minimal effects of construction Cost of increased services for pipeline population Inflation due to pipeline; impact on unorganized workers
61	8603-14	Sept. 15	YK	H.L. Stevens R. Garlick S. Cook	U.S.W.A. U.S.W.A. U.S.W.A.	Increase employment on a short term basis; probable employment slump after pipeline completion; demand for industrial goods to increase will increase inflation; availability of pipe, materials, machinery
62	8931	Sept. 16		Scrimas	Foothills	One large customer will cause services to be improved and all customers will benefit
71	10643	Oct. 14		Bayly	COPE/ITC	Impact of snow roads on hunting and other subsistence activities
82	12157	Nov. 6		Scott	MVPI	Study by Miller on Ross River and reindeer herding - "The Economic Acculturation of an Indian Band"
91	13892	Nov. 20		Dau	CAGPL	Inflation effects on costs of pipeline
97	14851-57	Dec. 5		Scott		Estimate by CWS of value of snow geese
104	15941-52	Dec. 16		Steigenberger	CARC	Domestic fishing - historical catch figures - present significance
C-24	2466-67	Aug. 23	NB	M. Miller	Citizen	Boom phenomenon; rising prices; Alyeska experiences
C-25	2479-511 2521 2588-97	Sept. 8	FS	Erion Dixon Rutherford Workman Black Hammond Dixon Lamothe	NWT CC NWT CC Foothills CAGPL NWT CC Citizen Citizen	History - economic impact; Fort Simpson re: healthy economy, staging area for Northern development, funding northern business; socio-economic impact of construction re: wage standards, local inflation, community projects, 4 year construction scheduling; need for financial assistance re: planning, carrying out expansion programs; water supply, sewer facilities; expansion of school facilities Dollar impact multiplier during construction Impact of industrial economy on the north, its people: political power, corporative control
C-26	2640-46 2659 2665-67 2677-80 2680-712	Sept. 9		Lafferty P. Nahanni B. Menicoche L. Menicoche Lamothe	Citizen Citizen Citizen Citizen Citizen	Security re: future development at Fort Simpson; industrialization; population growth re: impact on trapping and hunting White man's economics are motivated by profit at expense of consumer Dene Traditional way of life changed to wage; supplemented with hunting, trapping, fishing; return to traditional support re: impact on family structure, breakdown Inequality between native and white - Dene poorer; parent figure of government re: Dene desire to set up business; no economic benefit from pipeline Comparison of economy, politics, society, hunting economy re: expectations; impact, difficulty of change re: hunting economy to wage earning, industrial economy
C-27	2728-29 2761-62	Sept. 10		Cummings Erion	Citizen Citizen	Low standard of living - no running water and sewer; money spent in Fort Simpson Basis of industrial society re: economics; work ethic re: happiness, self-esteem, benefits; controls on project
C-29	2875-76	Sept. 12	JMR	Lafferty	Citizen	Allows government and industry to control economy, better lifestyle
C-30	2892-93 2911-21 2944-46 2956-59	Oct. 6	PP	Osing Mirosh Ellwood Carter Reed Bolmer	Citizen Foothills Foothills CAGPL Citizen Citizen	Labour shortages; highway, railway utilization; feeder line Training, employment - northerners, others post-construction employment centres; oil, gas exploration, industrial development potential Post-construction permanent positions; feeder lines re: industrial, socio-political development; resource extraction Highway, railway construction along corridor - community supplies

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C-33	3102-04	Oct. 9	FS	Evans	Citizen	Pipeline construction a form of economic relief, prosperity
C-34	3313-14	Oct. 15	YK	Keener	Citizen	Pipeline, economic boost; self-supporting Territories if provincial status
C-35	3422-28	Oct. 22	LI	Littledale Carter	Foothills CAGPL	Quantity of money spent in NWT to date by applicants; MVPI grants for studies on NWT business capabilities, municipal housing, services expansion
C-36	3476-77	Jan. 28	IN	Stewart	Citizen	Impact of reduction of crew numbers on local economy
	3509-10	Jan. 29		Workman	CAGPL	Pipeline benefits to Canada re: balance of payments
C-38	3652-55	Feb.12		Allison	Citizen	Anchorage - economic impact associated with population increase, industrial expansion
113	17142-49	Jan.21		Hobart	GPC-D	Historical background, Mackenzie Delta area
	17164-76			Hobart		Overview of Mackenzie Delta area
	17184			Hobart		Changing economic fortunes in Delta area
	17185-86			Hobart		Effects of no further oil/gas development in Delta
	17210-21			Hobart		Difficult for Delta to be independent of southern markets influence; native input into decisions affecting them; income generated by oil/gas exploration; depression in mid 60's, broken by increased development
118	17933	Jan.27		Wopnford	GPC-D-S	Taxation problems in Inuvik, impact of development
148	22674-79 22713-16	Apr. 29	YK	Asch Asch	NWT IB/MA	Impact of the petroleum industry Using economic background to evaluate potential impact of a pipeline
152	23340	May 6		Notti	CYI	Pipeline development in Alaska
153	23408-38 23439-46	May 7		Sharp Sharp	CYI	Economic impact study relating to early development at Ross River Business developments at Ross River
C-52	5240-42	May13	CAL	J. Poyen	Citizen	Increased cash, communities; benefits to Canadians; job opportunities
C-53	5442-43 5450-54	May14		Mayer Pearce	Citizen Citizen	Inflow of construction workers would cause havoc in north; drawing natives away from traditional occupation Northern participation in development, employment opportunities, training programs
C-54	5689-99	May17	EDM	Leeson	Citizen	Pullout of companies after gas depleted, destruction of present local economy, only few would have benefited
C-55	5866-67 5871-72	May18		J. McDougall L. Mulhall	Citizen Citizen	Possible boom, bust economy; problems with fast growth rate Native people, increased dependence on welfare; creation of inflation
C-57	6172-73 6188-89 6233-38	May20	WINN	S. Kuehn A. Lansdown M. Haave	Citizen Citizen Citizen	Disruption caused by integration of natives into wage economy; instability of forced growth Community inflation due to in flow of labour and high wages National income increase, employment, trade surplus; inflation, unemployment, trade imbalance, shift of natives to wage economy
C-58	6345-47 6358-62	May25	TO	F. Fairchild J. Robinson	Citizen Citizen	Interest rates will rise, loss in Canadian jobs, higher taxes Cost of pipeline, gas
C-59	6601-03	May 26	TOR	M. Nichini	Citizen	Possible effects, distortion of national economy; poor employment prospects for the north

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C-60	6673-74	May 27	TOR	E. Welsh	Citizen	Small businesses, difficulties in retaining labour; costs of support services
	6754			V. Horte	Citizen	Studies by CAGPL do not show adverse effects; regulation of rate of return to investor
C-61	6840	May 28		D. Elliott	Citizen	Inflow of foreign capital if not financed in Canada
C-63	7032-33	June 1	MTL	Ford	Citizen	Government benefits from taxation
	7071			Chalough	Citizen	Evidence of development, social dislocation, alcoholism
	7090-92			Hughes	Citizen	Impact to country as a whole
C-64	7204	June 3	OTT	Amagoalik	COPE/ITC	Pipeline project would cause worse inflation than at present
	7358			Rutherford	Foothills	Will not do irreparable damage to environment, avoidance of sensitive areas
159	24310-12	July 7	YK	Boorkman	CAGPL	Alyeska pipeline, effect on state, local budgets, inability to raise revenues to support expenditures, creation of revenue shortfall; greater problems with intra-state revenue sharing mechanisms; special assistance funds, "impacted" communities
	24321-26A			Boorkman		Alyeska boom, higher inflation rate than in lower 48; increases in cost of living, rents, Alaska communities
	24344-48			Boorkman		Alaska, higher rate of inflation than in lower 48; rise of Consumer Price Index; need for new resources, public financing; royalties used to supply services for large population growth
	24399-403			Trusty	CAGPL	Multiplier effect of pipeline, creation of jobs in services, other industries
	24441-46			Boorkman		Fairbanks, Anchorage, varying rates of inflation; problems with supply
	24477-79			Boorkman		Alyeska, growth in services
	24512-15			Boorkman J. Weinstein	CAGPL	Alyeska, impact on small merchants; decline after false boom, early 1970's
	24586-92			Boorkman		Shortages of manpower, services and industries, Alaska
162	24977-80	July 13		Trusty		Possible ramifications, out-migration from communities
	25086-95			Trusty		Inflationary effects; shortages of critical items; problems in Alaska
163	25120-23	July 14		Hobart	CAGPL	"Bust" conditions, impact on level of racial tension
	25171-92			Trusty		Change from impermanence of exploration activity to more stable, long-range activities
C-77	8406	Aug. 26	DET	M. Betsina	Citizen	Wants inflation cut down, lower prices in Yellowknife
170	26493-508	Aug. 16	YK	MacLeod	Foothills	Declining population in Inuvik, Fort Simpson, due to uncertainties of pipeline development and/or postponement
171	26540	Aug. 17		MacLeod		Leakage factor of income in north due to imports
	26549-51			MacLeod		Stable beneficial effect from increased work force, capacity of local economy to take advantage
	26566-65			Burrell	Foothills	Inflationary impact of local purchasing of goods and services, inflation of incomes, effect of inflation on those in fixed incomes
	26605-606			Dixon	MVPI	Alaska, discouraging jobless migrants; regional inflation
	26643-46			Dixon		Alaska, inflation; housing shortage; incomes
173	26982	Aug. 19		Dusel	NWT/AM	Costs for the increased need for social services, Inuvik
	27011-14			Dusel		Fort Simpson, costs of physical services, financial impact of development
178	27653-64	Aug. 26		Merrett Pritchard	MVPI MVPI	Multiple effect, localized inflation, monetary benefits to community

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178	27670-71	Aug. 26	YK	Runge	MVPI	Effect of wage employment on natives	
179	27746-52	Aug. 27		Runge		Competition for labour, induced employment multipliers	
179	27761-63	Aug. 27	YK	Runge	MVPI	Inflation and drain of labour felt strongest in smaller communities, need for central planning	
	27784			Runge		Result in competition for land and services	
181	28116-17	Sept. 8		Reimer	MVPI	Income, growth and employment benefits	
	28125-28			Reimer		Prices and wages increase, instabilities, need for planning; regional and national effects, boom bust cycle	
	28156-59			Reimer		Inflationary tendencies, money should be deposited in south, careful government planning needed	
	28205			Hollingworth Breckenridge	Foothills MVPI	Inflationary wages due to unions, problem of retaining workers in sectors outside pipeline	
	28231-33			Breckenridge McRae	MVPI	Problems of indexing wage rates to solve local inflation, lags; cost of living increases	
183	28411-12	Sept. 10		Clarke	COPE/ITC	Inflationary prices of housing during construction	
189	29278-81	Sept. 22		Nickerson	NWT/AM	Higher income tax due to population increase resulting from pipeline	
189A	29486-95			R. Worl	COPE	Importance of cash in Arctic communities; Trans-Alaskan Pipeline construction, adaptation of Eskimo to cash income, effect on family solidarity; inability to make housing payments leads to alcohol and drug misuse, increase in alcohol-related violence	
192	29929	Oct. 4		Baring-Gould	MVPI	Valdez economic boom in rapid population growth, short-term community dislocations caused	
200	31654-66A	Nov. 15	YK	Genest	CAGPL	Consequences of delay or postponement of pipeline construction, unemployment, out-migration; development benefits, property taxes; corporate income taxes, royalty revenues	
202	31943-46	Nov. 17		Bayly	COPE/ITC	Need for objective community socio-economic impact assessment; Regional Impact Information Centre	
203	32171-72	Nov. 18		Veale	CYI	Economic disadvantages in communities	
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<u>Volume</u> XXIII	<u>Page</u> 2683-90	<u>Date</u> Mar. 21	<u>Location</u> YK	<u>Speaker</u> Slusarchuk	<u>Agency</u> CAGPL	<u>Subject Matter</u> Borrow removal; impact of berm; drainage, erosion	
	2703-05			Templeton	EPB	Removal of snow/water from lakes; total ecosystem concept	
	2709-10			Clark	CAGPL	Accepted as adequate by CAGPL	
	2717-27			Clark Berger		Permafrost soils, frost bulb as a wall; route location in environmentally sensitive areas	
	2724-27			Clark		Movement of water, frost wall, erosion	
XXIV	2776-78	Apr. 7		Clark		Disadvantage of elevated pipe	
	2782-84			Williams	CAGPL	Compressor stations - minimum disturbance	
XXV	3021-24	Apr. 8		Hollingshead	CAGPL	Heavy equipment over land	
	3079			Cooper	CAGPL	Environmental impact statement - design to standard project flood	
XXVI	3122-28	Apr. 9		Hollingshead		Effect of spoil fill in channel	
XXVII	3373-75	Apr. 10		Scott	MVPI	Observations, botanists, construction of winter roads	
XXVIII	3460-63	Apr. 11		Clark		Fish overwintering, open water, icings	
	3479-80			Clark		Possible formation of open system pingoes	
	3490-95			Clark		Culverts, river crossings, pipeline scheduling, fish	
	3534			Morgenstern	CAGPL	Design, construction procedures	
	3538-39			Morgenstern		Unstable slopes - sensitive areas	
XXXII	4041	Apr. 18		Purcell	CAGPL	Compressor stations can be moved	
	4165			Koskimaki	CAGPL	Noise levels acceptable	
XXXIII	4319-20	Apr. 21		Williams		Snow roads - reduction in vegetation	
XXXIV	4468-69	Apr. 22		Veale	CYI	Compressor stations, construction camp C, impact on caribou calving ground.	
XXXVII	4751	May 13		Bayly	COPE/ITC	Pipe installation at Shallow Bay in two seasons	
	4782-83			Dau	CAGPL	Inspectors checking work of inspectors	
	4820-21			O'Rourke		Best months, aerial seeding	
XXXVIII	4823-32	May 14		Bayly		Effect of snow roads on surface vegetation	

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XXXVIII	4973-74	May 14	YK	Dau	CAGPL	Various methods of clearing
XXXIX	5140-41	May 15		Harlan	CAGPL	Siltation effect on fish
40	5216-17	May 16		Hurd	CAGPL	Aircraft types, flight paths; low altitudes for line patrol
	5230-31			Hurd		Wildlife disturbance by aircraft patrols
	5253			Hurd		Possible major repairs sensitive area; gas escaping, river crossing damage
	5261-62			Hurd		Fires, restoration
41	5321-24	May 20		Hurd		Regression of permafrost, erosion; rocks
	5341			Fielder	CAGPL	U.S.S.R. pipeline construction
	5355-64			Lucas Hurd	CARC	Aircraft, birds
42	5396-98	May 21		Hurd		L.G.P. vehicles rather than aircraft patrols
	5415			Fielder		A.C.V. noise, wildlife
	5454-56			Hurd		Flight altitudes; wildlife disturbance
	5502-07			Scott Hurd	MVPI	Damage by A.C.V.'s, L.G.P.'s, rolligons
43	5592	May 22		Hurd		Cross delta route change
	5705-18			Templeton	EPB	Prediction of impact, onus of proof
44	5722-36	May 23		Templeton		Studies, Fort Simpson re-location, cross delta route
	5738-56			Bell	NWT IB/MA	Inspectors, monitoring
	5762-64			Horte	CAGPL	Not limited to actual land held for the pipeline
45	5919-20	May 24		Bayly Horte	COPE/ITC	Looping, damage to revegetated areas
	5957-60			Bayly		CAGPL evaluation of reports by consultants
46	6032-44	June 2		Templeton		EPB presentation
	6045-58			Templeton		Serious impacts, environmental matrix
	6066-74			Craik	EPB	Caribou
	6075-89			Craik		EPB reports and studies
	6090-96			Templeton		Presentation of cumulative impact assessment
	6101-6119			Templeton		Interaction matrix: construction and terrain
	6122-47			Adam	EPB	Potential impact of construction on vegetation types and air quality
47	6149-69	June 3		Wilimovsky	EPB	Cumulative impact - aquatic, birds, mammals, land, people
	6170-93			McT-Cowan	EPB	12 bird species liable to significant impact
	6195-6227			McT-Cowan		Maps, differences between 2 Yukon routes re: mammals
	6227-38			Templeton		Need for management policies; negative impact
	6263-75			McT-Cowan		Predictions have variables; alteration to living system
	6280-98			Templeton		Need control of impacts, technology not the answer
	6300-13			Adam	EPB	Protection cannot be guaranteed south of Willowlake R.
48	6315-53	June 4		Templeton and Panel		Need for environmental laws and enforcement by single agency
	6357-66			Craik	EPB	Need agency for land use plan and environmental training
	6373-6421			Templeton		Breakdown of Environmental Code by section
49	6423-49 6614-19	June 5		Templeton Horte	CAGPL	Environmental recommendations Construction damage - compensation
50	6693-97	June 6		Veale	CYI	Hypothesis: watertable of Crow Flats changed
C-I	4-5	Apr. 2	Aklavik	Sittichinli	Citizen	Fish along the coast
	12			Thrasher	Citizen	Future damage to countryside, forest from pipeline
	18-19			Carmichael	Citizen	Damage to rabbit snare line
	21-26			Elanik	Citizen	Blasting, effect on muskrat trapping
	27-28			Paul	Citizen	Effects of blasting
	48-52			Ross	Citizen	Damage from blasting in lakes; heavy equipment movement
	55			Ross		Disposal of sewage and garbage
C-II	69	Apr. 3		Greenland	Citizen	Possible water pollution

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C-II	78-79	Apr. 3	Aklavik	Norbert	Citizen	Impact of pipeline on caribou, muskrat
	101-103			Gordon	Citizen	Fish spawning, migration; seal branding
	104-05			Malanga	Citizen	Oil drilling, muskrat trapping
	112-14			J. Sittichinli	Citizen	Seismic blasting
	119-121			Edwards	Citizen	Wire left on ground, seismic blasting
	123-24			A. Gordon	Citizen	Traffic, effect on berries
	145-46			Atchuk	Citizen	Machines, impact on birds, animals
C-III	152-54	Apr. 4		MacWatt	Citizen	Damage to land
	172			Marring	Citizen	Garbage, sewage; drop in water level
C-4	259	May 28	Hay River	Monroe	Citizen	Pipeline provides access to trappers
	287-288			Demelt	Citizen	Movement of heavy equipment
C-6	480-576	May 30		Hay River Hearings		Of pipeline on Indian land
C-7	607-15	June 24	F.F.	Naedzo	Citizen	Fires; scarcity of animals
	623-24			Naedzo		Poisoning wolves; effect on other animals; forest fires
	632-44			Modeste	Citizen	Dredging of Great Bear Lake, fishing
C-8	698-771	June 25		Tekzo	Citizen	Seismic lines, trapping areas, Fort Franklin
C-9	777-833	June 26		Tutcho	Citizen	Seismic lines, air strips, dams
C-10	836-70	June 26	W.L.	Citizens		Great Bear Dam, town of Fort Franklin; comparison to James Bay
	872-983	June 27	F.N.	Citizens		Effect on traditional ways of life
C-11	996-98	July 8	F. McP.	C. Koe	Citizen	Oil exploration in Mackenzie Delta; muskrat trapping
	1003			M. Vittrewka	Citizen	Dempster highway, wildlife
	1010			J. Kay	Citizen	Rivers dammed by oil companies
	1017-19			A. Kunnizzi	Citizen	Exploration, seismic, Mackenzie Delta
	1029-30			J. Blake	Citizen	Seismic lines; gas drums abandoned
	1060			C. Kay	Citizen	Sewage being dumped into local lake
C-12	1067-1149	July 9		Citizens		Community hearings, Fort McPherson
C-13	1195	July 10		W. McDonald	Citizen	Land has been destroyed
	1223			J. Semple	Citizen	Oil spills in Yukon River
	1249			R. Stewart	Citizen	Damage to the delta, Dempster Highway
	1253-53C			J. Charlie	Citizen	Dynamite blasting; effect on caribou, muskrat
	1259			J. Charlie	Citizen	Seismic camp, bulldozer damage
C-14	1278-80	July 11	O.C.	L. Charlie	Citizen	Pipeline breaks, Old Crow Flats
	1286-89			P. Lord	Citizen	Jobs for people in Old Crow
C-15	1376-78	July 12		W. Moses	Citizen	Migration route of caribou
	1396-98			J. Russell	Citizen	Abandonment of pipeline in ground, environmental damage over a long period of time
C-16	1483	July 13		P. Nukon	Citizen	Concern that will lose good drinking water, fish, caribou
	1490			E. Bruce	Citizen	Seismic work, effect on fur bearing animals, ptarmigan, rabbits
	1509			J. Abel	Citizen	Concern that construction camp personnel will kill caribou for antlers
	1513-18			J. Charlie	Citizen	Caribou have moved away from areas where seismic work has been done
	1519			A. Charlie	Citizen	Seismic lines, damage to the land
	1524			P. Benjamin	Citizen	Caribou migration, bird nesting areas, along interior and coastal routes
	1528			H. Netro	Citizen	White people used poison to trap animals
	1541			W. Eckgrader	Citizen	Beaufort Sea rigs, garbage dropped into the sea
	1548-51			B. Charlie	Citizen	Pipeline break on Crow Flats, river crossings in winter weather
	1561			L. Netro	Citizen	Pipeline will hurt hunting, trapping, fishing for future generations

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C-16	1564	July 13	O.C.	C. Blake	Citizen	Breaks in the line, chance of fire
	1600-24			B. Sharpe	Citizen	Destruction of land that is cherished by the native people
	1635			A. Tizya	Citizen	Road built to Old Crow; spilled gas in Ethel Lake
C-17	1642-48	July 16	F.L.	P. Lord	Citizen	Caribou disturbed by aircraft
	1658-1714			Citizens	Community hearings, Fort Liard	
58	1715-65	July 17		Citizens		Community hearings, Fort Liard
	8144-46	Aug. 20	YK	Blair	Foothills	Studies by Foothills yet to be finalized
8168-71	Blair			Foothills	Impact of construction camps; use of access roads and highway; regulations in construction camps	
51	6754-55	Aug. 11	WH	Smith	Gov't Yukon	Implications for Yukon communities, concerns of Yukoners
	6782			Hemstock	CAGPL	Attempt made to minimize the miles of pipe and numbers of appurtenant facilities; connection to future reserve areas
	8603			Hemstock		Studies; impact re: route selection, alternative corridors; aspects of construction, operation and maintenance; ditching, pollution - air, water, re-vegetation, drainage control; water availability, wildlife, birds, fish
	8615-20			Hemstock		Reports and studies; routes and corridors through previously undisturbed areas
52	6874-81	Aug. 12		Hemstock	CAGPL	Impact of pipeline and road on environment; synergistic versus additive implications
	6882-6900			Banfield		Synergistic effect of multi-line development
	6928-38			Banfield		Comparative merits of alternate and prime routes
	6970-71			Banfield		Clarification of impact of interior supply line; effects on aquatic furbearers along Mackenzie Valley
	6987-7012			Banfield		Comparison of various corridors
53	7048-54	Aug. 13		Banfield		Impact of coastal and interior routes on caribou
	7083-7100			Routing Panel	CAGPL	Impact of gravel and permanent roads
	7113-18			Banfield		Increased hunting and fishing by new access and influx
	7142-43			Banfield		Lesser impact of prime route
	7144-45			Hemstock		Impact of various corridors compared
	7161-62			Banfield		Impacts of Canning River and Marsh Fork options in Alaska
	7185-92			Joe	CYI	Impact of developments in the Yukon
7240-41	Sprecker	CYI	Impact of pipeline workers on fishing in Alaska			
53A	7250-58	Aug. 13		Wah-Shee	NWT IB/MA	Impact of routes on Dene land
	7374-75			Geist	CARC	Increase in agriculture in Yukon
	7387			Geist		Cumulative impacts of corridor on caribou, sheep
54	7411	Aug. 14		Geist		Harrassment of sheep; energy budgets
	7468-69			Weedon	CARC	System built due to reserves found in the Marsh Creek anticline and eastern Beaufort Sea would be located within the western and northern portions of the calving grounds
	7539			Parker	CARC	Borrow materials; siltation of rivers; fish
	7556-88			Weedon Parker		Synergistic effect; studies
55	7605-24	Aug. 15		Hughes	CARC	Changing in water levels may stimulate thermokarst ponds, frost heave and ice segregation; severity of impact dependent on engineering techniques and terrain; fire, removal of organic cover re: propensity to slide
	7636-45			Morlan	CARC	Impact of pipe construction on archaeological sites, caribou, compounding impact re highway and pipeline corridors; borrow; winter roads and destruction of sites

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	7650-67			Banfield	CAGPL	Caribou-Porcupine Herd, polar bear; survival and effects of the pipeline; studies and research
C-18	1766-1834	Aug. 5	FGH	Citizens		Past and anticipated effects of development
C-19	1835-1908	Aug. 6				Past and anticipated effects of development
C-20	1916-17	Aug. 7		M. Boucan	Citizen	Fear of disturbance to land & animals
	1927-29			G. Shae	Citizen	Increasing frequency of dead animals since development began
	1998-2002			T. Pierrot	Citizen	Pipeline would destroy land, impact of development
	2005-06			A. Edgi	Citizen	Impact of pipeline on wildlife
	2011-12			F. Pierrot	Citizen	Destruction of traditional lands
	2026			M. Wilson	Citizen	Southern development-restriction on freedom
	2028-29			E. Kakfwi	Citizen	Example of seismic pollution
	2029-31			G. Oudzi	Citizen	Unauthorized, wanton hunting by Northern Construction & Heath and Sherwood
	2040-41			M. Cotchilly	Citizen	Animals decreasing; cut roads
	2042-43			J. Moynihan	Citizen	Pipeline would create another wasteland
	2048-53			T. Kakfwi	Citizen	Impact of oil spills; fire impact of seismic work; fires
	2056-57			M. Cotchilly	Citizen	Destruction by clearing for pipeline
	2058-64			A. Rabisca	Citizen	Destruction by seismic crews
	2065-69			F. Rabisca	Citizen	Contrast between pollution north & south
C-21	2151-52	Aug. 9	NW	D. Monuik	Citizen	Overhunting of caribou
	2212-15			W. Fraser	Citizen	Cost of pipeline
C-22	2236	Aug. 11	WH	A. Wright	Citizen	Cumulative projections invalid
C-23	2303	Aug. 14		D. Greg	Citizen	Effect of road between Skagway & Carcross
	2306			R. McKaymie	Citizen	Wildlife able to adapt
	2322-24			A. Fekete	Citizen	Oil pipeline break--Mackenzie Delta
	2351			C. Taylor	Citizen	Recommendations of Yukon Conservation Society
	2359-60			Berger		Studies & funding to present evidence
	2377-81			D. Taylor	Citizen	Drainage at roadsides would increase mosquitos
61	8604-14	Sept. 15	YK	H. L. Stevens	USWA	Damage caused by the pipeline construction could be substantial; studies not yet final; no pipeline until environmental impact has been thoroughly assessed
	8697			Scott Mirosh	MVPI Foothills	Thought to be few environmental effects caused by drilling of community supply laterals; chilling south of Fort Simpson
62	8821-22	Sept. 16		Walker	Foothills	River crossing studies; damage to fish, spawning areas; silt loads; small and major stream crossings
63	9001-11	Sept. 17		Beer	Foothills	Noise from compressor stations; effect on personnel and wildlife; control measures on noise
	9020-22			Mirosh		Impact of permanent air strips as opposed to helicopter transport
	9024			Mirosh		Additional disruption caused by looping & preparation of additional compressor site requirements
	9048-49			Mirosh		Impact of airstrips; land travel when weather forbids air travel
	9056-57			Mirosh		Attraction of bears, etc. to garbage sites disposal of pipeline condensates
	9074			Marshall	CAGPL	Studies of cross delta route change
	9081			Mirosh Lazerte	Foothills	Problems of sewage lagoons in permafrost
	9106-13			Beer		Effect of sound levels from blowdowns
64	9300	Sept. 18		Spafford	Foothills	River crossing studies; Environmental Impact Assessment, water, Mackenzie Gas Pipeline
	9406-09			Claridge	Foothills	Effects of compounds used in slope stabilization; restoration of slopes; revegetation

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64	9414-34	Sept.18	YK	Spafford	Foothills	Problems of siltation/sedimentation; methods of small stream crossings & soil waste disposal; impact of borrow operations in streambeds
66	9822-27	Sept.22		Jarvis	Foothills	Effects on fish of snow & water removal from lakes
67	9853-54	Sept.23		Templeton	EPB	Incumbent upon applicants to outline specific impacts
	9860			Jarvis Templeton	Foothills	Impact of meltout of ice bridges on fish migrations
	9931-45			Mirosh	Foothills	Impact of clearing prior to first construction year: thaw; hand, machine clearing impact of grubbing; side slopes
	9939-45			Mirosh		Grading, side slopes; impact of grubbing
	9993-96			Mirosh		Environmental inspectors on construction spreads - powers & responsibilities
	10030-32			Mirosh		Inspectors & expertise detailed; overseers of construction impact
68	10043	Sept.24		Hushion	Foothills	Environmental concerns to be dealt with by staff environmentalist in each district office (different from CAGPL proposal); smaller scale project causes less impact
	10200-01			Templeton	EPB	Impacts of an oil pipeline
69	10393-403	Sept.25		Owen	MVPI	Terrain damage - clearing, erosion, gullying by water action, equipment movements; stream flow interference; borrow pit excavation
70	10508-16	Sept.26		Owen		Impact by seismic crews; damage
	10523			Owen		River crossings, Kotanelee River; route down river bank; erosion
	10526-28			Owen		Exposed pipe; erosion; pipe settlement; impact of seismic lines; berm eroding at Fisherman's Lake
	10541-63			Longlitz	MVPI	Impact of snow roads, temporary access roads on vegetation, slope stability
	10556			Longlitz		Bush fill causing river obstacles; created by bank removal, increased flooding
	10558			Longlitz		Impact of using winter access roads too long into the spring
	10561-63			Longlitz		Effect of vehicles on various terrain conditions re: winter access roads
	10586-87			Lewis	MVPI	Impact of mining borrow from river bars of braided streams; reports; inactive flood plains; downstream effects; scars; sediment concentrations of fish; Yukon North Slope Rivers; duration of sediment
71	10608	Oct.14		Templeton Longlitz	EPB	Use of track vehicles during the summer would cause terrain damage
	10643			Bayly Longlitz	COPE/ITC	Effect of snow roads
	10646-47			Bayly Longlitz		Negligence on the part of the operator e.g. departure from the roadway; prosecutions under the Territorial Lands Act
	10683-88			Bayly Longlitz		Assessment of parties wishing land use permits; minimize environmental disturbance; impact on wildlife; interest of various departments; logs used in winter crossing; erosion; effect on traplines
72	10709-11	Oct.15		Bayly Longlitz		Resource Management Officer re: training programs - awareness of ecological systems, erosion drainage and soil degradation; impact of construction
	10722-31			Longlitz		Snow road and vehicle usage; all terrain vehicle ie. rologon, S-5 Bombadier; induced frost penetration; extended snow road use through careful construction scheduling and snow making; use of available water for snow making

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73	10919	Oct.16	YK	Clark	CAGPL	Insulation; elevated pipeline
75	11026-34	Oct.20		Parker	CARC	Impact of snow roads on tundra; tracked vehicles affecting vegetation
	11064			Weedon	CARC	Triggering effect on the Arctic National Wildlife Range by construction of a pipeline
76	11155-79	Oct.21		Parker Weedon		Impact of two pipelines down a corridor; studies and intensive research on the Alyeska corridor; mining of river bars for gravel, effect on fish, Trans-Alaska pipeline
	11179-298			Parker Weedon		Alyeska corridor; Alyeska haul road; Alaska highway; availability of gravel; impact of mining for gravel
77	11425	Oct.22		Rutter	CARC	E.S.P. study notes and recognizes adverse environmental problems re: east of the Franklins route
78	11489	Oct.23		Roed	CARC	Terrain studies versus environmental impact studies re: edge of the shield route
	11525			Anthony Berger	CARC	Environmental assessment re: edge of the shield route
	11530-32			Roed	CARC	Effect on terrain re: snow and winter roads; east of the Franklins route goes through middle or reindeer grazing reserve
	11575-80			Roed		Development of a corridor; Mackenzie corridor
	11655-58			Minning	CAGPL	River crossings; impact of construction on rivers, stream flow, sediment load, water level
79	11675-768	Nov.3				Formal Hearings Yellowknife Phase 2
	11706-08			McCart	CAGPL	Impact of borrow operation along Kavik River
	11741			Harlan	CAGPL	Impacts of icings
	11769-11957			Harlan		Formal Hearings, Phase 2 - Impact on the Physical Environment
80	11854-70	Nov.4		Hemstock	CAGPL	Comparative impacts of prime, Fairbanks and east of the Franklins routes
	11892-905			McCart Minning	CAGPL	Effect of borrow operations in flood plains, active channels
	11921			Hemstock		Effects of harvesting snow from lake
	11927-29			Dabbs	CAGPL	Impact of snow ronds on terrain and vegetation
	11936-38			Williams	CAGPL	Environmental recommendations after snow road tests in Inuvik
81	11958-12135	Nov.5			CAGPL	Phase 2 formal evidence
	11966-71			Dabbs		Effects of caribou on seeded areas; effects of small mammals; impacts of aerial reseeding on birds
	12008-16			Hemstock		Impact of abandonment, looping and an oil pipeline
82	12143	Nov.6		Dabbs		Conflict between reseeding operations and calving caribou
	12205			Hemstock		Access to areas leading to environmental disruption
	12257-89			Panel	CAGPL	Priorities of environmental concerns of panel members
	12291-92			Harlan Dabbs		Effect of abandonment
83	12350	Nov. 7		Scott Hemstock	MVPI CAGPL	Disturbance by borrow pits of aquatic and terrestrial habitats
84	12570-79	Nov. 8		Anthony McCart Williams Hemstock	CARC CAGPL CAGPL	Compressor stations; stream road crossings, culverts, sedimentation at stream crossings
	12582-85			Bayly Minning Hemstock	COPE/ITC CAGPL	Upland borrow sites, denning animals, Alyeska
85	12639-50	Nov. 12		Bayly McCart		River crossing ditching, North Slope, aquifers, modified techniques, fish kill, Firth River
	12691-12708			Bayly Hemstock Williams		Water withdrawal, camps, compressor stations; hydro-electric power for compressor stations

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85	12709-37	Nov. 12	YK	Scott Environmental Panel	MVPI CAGPL	Impact, river crossings, details, Blackwater River typical; water withdrawal, Firth River
85A	12741-90	Nov. 12		Scott McCart		Impact of water withdrawal, Mackenzie Valley, North Slope, on fish; siltation
	12782-84			Berger McCart		Fraser River, Hell's Gate, effects on salmon
86	12809-90	Nov. 13		Environmental Panel	Foothills	Evidence-in-chief, impact on physical environment
88	13200-08	Nov.17	YK	Ryder Bouckhout	MVPI Foothills	General environmental concerns; differences, Foothills versus CAGPL
	13240-58			Lawrence Bouckhout	Foothills	Sewage treatment, disposal, of camps; garbage disposal; non-organic waste
88-A	13359-94	Nov.17		Environmental Panel	CAGPL	Impact on living environment; vegetation, revegetation, fish
89	13502-30	Nov.18		Banfield Hemstock	CAGPL CAGPL	Mitigative measures; impact assessment of pipeline; overall ecological evaluation
	13561-65			Dabbs	CAGPL	Impact of methanol on vegetation
90	13604-20	Nov.19		Dabbs		Effects of methanol, oil etc. on vegetation, tests
	13644-70			Environmental Panel		Impact of oil pipeline, highway, railroad in corridor
91	13779-80	Nov.20		McCart	CAGPL	Impact on critical fish area, oil versus gas pipeline, cumulative impact; outside corridor; alternative routes
	13840-43			McCart		Effects of methanol on fish, benthos
93	14068-101	Dec. 1		Hemstock McCart		Impact on fish passage due to snow roads, bridges; disposal of methanol in the Mackenzie; use of explosives
94	14206-44	Dec.2	YK	Environmental Panel	CAGPL	Cross Delta route change; route selection; impact on Delta, especially the Upper Delta region
	14270-359			Banfield Jakimchuk	CAGPL CAGPL	Caribou population fluctuations; predators; impact of construction, access, human activity
95	14371-451	Dec.3		Banfield Jakimchuk Hemstock	CAGPL	Assessments; legislation; National Environmental Policy Act; Environmental Assessment Board
	14455			Banfield		Fuels and oil spills
97	14727	Dec.5		Bell Jakimchuk	NWT IB/MA	Destruction of moose habitat
	14735-71			Hemstock		Impact of gas and oil pipelines, highway, in one corridor, terms and conditions
	14772			Hemstock		Separate impact assessment required for looping
	14810-11			McCart	CAGPL	Applicant and personnel must abide by code of regulations
98	14867-919	Dec.8		Gunn	CAGPL	Birds, North Slope, Mackenzie Delta; oil spills; compressor stations; ponds and lakes, siltation, noise; peregrine falcons; Shallow Bay bottom-sampling; revegetation; increased access
	14930-15006			Jakimchuk Banfield		Caribou, various herds, interaction with pipeline, highways, other developments
99	15052-90	Dec.9		Environmental Panel	CAGPL	On wilderness values, specific areas along route; coastal versus interior route; wilderness concepts, maintenance; parks location, Arctic Wildlife Range; aesthetics

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99	15106-35 15135-85	Dec.9	YK	Bouckhout Environmental Panel	Foothills Foothills	Foothills environmental assessment Impact accessibility of project; mitigative measures; possibility of building according to plan; aircraft overflights; inspection; high-way interaction; oil pipeline; recommendations; environmental statement; laterals
100	15227-70 15271-83 15296-97 15301 15333-42	Dec.10 Dec.10		Environmental Panel Bouckhout Whitney Hayden Hayden Whitney Bouckhout Finney Hayden	Foothills Foothills Foothills	Data interpretation, objectivity, value judgements; data collection, raptors, woodland caribou, reindeer; games management, co-operation with government; training workers; fish movements, culverts; birds, hunting, overflight restrictions; mammals, harassment, over-flight restrictions Impact assessment studies, areas of concentration, scheduling Identification of "critical" river crossings for fish Experiments, methanol effects on fish, benthic organisms Relocation of pipeline along abandoned CNT line mile 90 - 120
101	15449-52 15461-72	Dec.11		Zoltai Zoltai	CARC	Hazards of pipeline construction in permafrost, impact on vegetation Terrain, permafrost areas to be avoided in route selection; potentially hazardous areas; effects of width of ROW; Ebbut Hills; effects of fire; North Yukon routes; further research required
102	15617-60	Dec.12		Novakowski	CARC	Potential impact of pipeline construction on mammals, birds
103	15723 15801-06 15836-37	Dec. 15		Stein Stein Stein Marshall	CARC CAGPL	Stream crossings, increased suspended sediment, impact on aquatic ecosystem productivity Summary of Speaker's, Dr. McCart's studies; Beaufort Sea Program, overview report re: pipeline impact on fisheries Sedimentation downstream of crossings - "local" impact
104	15918-22 15974-75	Dec. 16		Walker Walker	CARC	Division of fisheries impact studies between Dr. McCart, Fisheries Service On-site environmental protection authorities re: construction regulation
105	15979-82 15985-88 16002-74 16132-33	Dec. 17		Berger Stein Millen Steigenberger Walker Stein Steigenberger Millen	CARC CARC	Threat posed by permanent road along North Coast; oil spills; responsibility of pipeline developer to protect fish environment Buffer zone recommended between water and mining site; inadequate buffer zones in different environments Prevention of environmental degradation re: pipeline construction and operation; erosion control methods; water availability and removal; ice roads precautions re: drainage
106	16173-77 16188 16200 16265-73	Dec. 18		Lent Calef Calef Lent	CARC CARC	Impacts of oil and gas development re: caribou Prudhoe Bay oil field re: air pollution, solid waste disposal, litter Effects of pipeline re: caribou - decline of herds, alteration of ranges, migration routes Churchill Falls Dam, Labrador re: flooding of caribou calving grounds Effects of natural disturbance re: heavy snowfall on caribou; lack of natural impact to compare with environmental impacts
107	16297 16322-39 16365-57	Jan. 12		McT-Cowan Crak Wilimovsky Templeton Templeton	EPB EPB EPB EPB	Coastal area unique - damage by fuel spills, stockpile and wharf sites Environment assessment by a pipeline authority; research, monitor construction, new projects Environmental assumptions re: pipeline impact assessment; control of employees, construction, facilities; road across the North Slope

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108	16425	Jan. 13	YK	McT-Cowan	EPB	A buried, chilled pipeline to have little impact on caribou migration, restoration of vegetation
	16433-60			McT-Cowan		Impact of oil spills on the coast - fauna, birds and fish; coast - unique biome
	16443-44			McT-Cowan		Oil spills on the interior or coastal routes - impacts, watershed of the Porcupine and Yukon Rivers; coastal fish, birds and mammals
	16469			Templeton	EPB	Workers trained in relationship to the damage to the environment he can cause
	16535-55			Templeton McT-Cowan		Impact on caribou and other mammals due to looping, scheduling of looping; cumulative impacts, corridor concept; revegetation; drainage disruption
109	16604-05	Jan. 14		Bliss	EPB	Environmental assessment of routes
	16633-41			Bliss Adam McT-Cowan Wilimovsky	EPB	Drainage, erosion; impact on waterbodies, aquatic and wildlife habitats; siltation; aesthetics
110	16743-45	Jan. 15		Bergerud	CARC	Pipeline construction, oil and gas development in the north; survival of the caribou herd
111	16930-31	Jan. 16		Carter Calef	CAGPL CARC	Impact of pipeline on Porcupine herd
111	16932-45	Jan. 16		Bergerud Lent	CARC CARC	Coastal, interior routes on Porcupine herd; wolf interaction; aircraft disturbance; delta developments on Bluenose herd, reindeer herd
	16954			Calef		Dempster Highway, increased access, population, on caribou
	16968-88			Davies	MVPI	Impact assessment, state of the art; Federal and Ontario governments' processes; impact statements; measures to minimize impact, corridor, route selection
C-24	2397-99	Aug. 23	TL	E. Jumbo	Citizen	Effect of pipeline on fish, water quality; seismic operations and effect on traplines
	2425-27			Rowe Hushion	CAGPL Foothills	Damage from possible spills and pipeline breakage; restoration projects; compensation
	2443-45		NB	A. Consenta	Citizen	Impact of Cadillac Mine; possible effect on animals and fish from which the people of Nahanni Butte depend
C-25	2496	Sept. 8	FS	Erion	NWT CC	Trust that necessary precautions have been taken
	2570-73			Deller Hammond	Citizen Citizen	Applicant capacity to handle environmental question re: quantity of specialists; pipeline safety factor
	2602-03			Michaud	Citizen	Development, teaching people to respect their land
C-26	2626-29	Sept. 9		Antoine	Citizen	Effect of pipeline re: muskeg, river crossings, power of ice and water; destruction of way of life; noise pollution
	2632-33			Sanguiez	Citizen	Lack of understanding re: technology and pipeline; concern for animals; protection for land; concern re: power of river, forest fires
	2642-43			Lafferty	Citizen	Environmental changes re: population increases; damage in Fort Simpson by dust, raw sewage; prevention by education
C-27	2731-32	Sept. 10		Hammond	Citizen	Significance of land and man - universal; land of steel and pollution
	2764-66			Hammond		Fear for land misuse re: concrete, asphalt; aesthetics; result of service industries
	2770-71			Paulette Berger	Citizen	Oil pipeline rejected re: environmental impact; visits to other pipelines re: Kingston, Alaska
C-28	2798	Sept. 10	Wr	G. Hardisty	Citizen	Damage to Dene land, way of life, decreasing game
	2819-20			M. Nayally	Citizen	Destruction of land and animals
	2821-22			B. Moses	Citizen	Destruction of land
	2840	Sept. 11		E. Nayally	Citizen	Destruction of land; danger of overflow cracking pipeline, oil spill
C-29	2852-54	Sept. 12	JMR	Norwegian	Citizen	Danger to drinking water; damage to country by seismic line, animal decrease
	2855			Sanguiez	Citizen	Fear of pipeline leak

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C-29	2859	Sept. 12	JMR	Sanguuez	Citizen	Gas leak, poison for animals and trees; ice jam damage on rivers
	2869			Antoine	Citizen	Damage to environment and animals; beaver hide soaked with oil
C-34	3256-63	Oct. 15	YK	Duesterhus	Citizen	Definition of "destruction of environment", "impact"; construction damage to environment versus "natural processes"
	3312-13			Keener	Citizen	Questions re: migration of caribou; terrain; effect of cold line on vegetation and permafrost; remedy for erosion, sloughing and borrowpits; fire prevention; effect of waterflow changes on spawning grounds; effect of construction on wildfowl
	3321			Humphreys	Citizen	Damage to land caused by people, camps and equipment
	3341			McRae	Citizen	Significant environmental damage
	3371-74			Stephansson	Citizen	People part of ecology, effects of pipeline on people
C-36	3448-51	Jan. 28	In.	Alonik	Citizen	Impact of seismic lines on domestic hunting, fishing
	3455			C. Allen	Citizen	Impact of seismicity, helicopters on hunting geese, caribou
	3458-60			Raddi	Citizen	Well drilling in Beaufort Sea potential environmental impact
	3467			Albert	Citizen	Helicopter impact on geese migration route, hunting
	3483-90			B. Allen	Citizen	Native concerns re: industrial development - impact on hunting, trapping grounds, gravel removal - impact on fish
	3503	Jan. 29		Burrell	Foothills	Foothills environmental inspection team
	3507-08			Workman	CAGPL	Measures to minimize construction impact on environment
	3515-17			Mainland	GPC-D	Impact of seismic lines; Beaufort Sea environmental program - offshore blowouts; island-building - monitoring of impact on whales
	3535			Sineok	Citizen	Oil spillage on Beaufort Sea
C-38	3666-71	Feb.15		Mirosh Berger	Foothills	Potential for, impact of a Beaufort Sea Oil well blow out; compensation to people affected by pipeline, well spillage
C-39	3717	Feb.18		Hill	Citizen	Protection of environment, minimum disturbance to wildlife
112	17081-88	Jan.20		Bliss	GPC-D	Development in Delta on beluga whales; regeneration of timber cut for pilings, Peel River; research needed, time element
	17098-108			Bliss		On reindeer range by Delta gas field development; on reindeer lichen by sulphur dioxide from gas plants; on horsetail by escaped toxic chemicals in Delta ponds
	17122-23			Bliss		Toxic spill on aquatic vegetation; other areas of concern
114	17282	Jan.22		Mainland	GPC-D-I	Taglu gas field, compact development system lessens impact
	17342			Mainland		Producers going through environmental assessment review process
	17369			Mainland		Taglu gas field, effect of bentonite clay from drilling on plants
115	17476-79	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, may have different impact from other Delta gas fields; Swan Hills as example of wide spread wells, feeder lines in gas field; Shell's plans
	17490-501			Faulkner		Niglintgak gas field, possible terrain degradation through shortage of gravel; Shell not responsible for impact of felling trees for pilings; effects of pipe rupture; methanol injection into ground

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116	17612	Jan.24	IN	Stamberg	GPC-D-G	Effects of dredging on Liverpool Bay species
	17621			Bayly Berger	COPE/ITC	Impact of barge traffic on whales in Liverpool Bay
	17645-55			Rempel	GPC-D-I	Report by F.F. Slaney and Company, environmental protection program on Meteorology and Climate, Hydrology, Land form and Vegetation, Birds, Mammals, Aquatic Resources, Environmental Quality
117	17768-70	Jan.26		Appleton	GPC-D-G	Snowroad damage to vegetation
	17800			Rempel		Monitoring for environment effects
119	18143-80	Jan.28		Shaw	COPE	Impact of oil industry on environment, effect on animals, fish, insects; effects of salt on animal, plant, fish life; impact of gas well blowouts on wildlife
120	18279-83	Jan.29		Pimlott	COPE	Environmental impact research
121	18428-38	Feb.10		Stein	COPE/ITC	Impact of dredging, seismic exploration, drilling fluids, oil spills on aquatic resource
	18453-54			Barry	COPE/ITC	Difficulties in prediction of oil spill environmental impact
	18458-61			Barry		Taglu oil well study - effects of noise levels on wildlife
123	18793-95	Feb.12		Yates	MVPI	Need for environmental impact assessments to be done prior to granting of agreements in principle
125	19127-30	Feb.14		Snow	COPE/ITC	Impact of delta oil spill on birds, fish, calving whales, benthic organisms
127	19390	Feb.17		Monaghan	COPE	Impact of seismic on wildlife
128	19592-605	Feb.18		Speller	MVPI	Impact of development on wildlife
129	19606-33	Feb.19		Inglis	MVPI	Impact of development on rock and granular material resources of the Mackenzie Delta
	19639			Speller		Impact of aircraft, workmen and tourists
130	19750-51	Mar.16	YK	Hemstock	CAGPL	Comparison of impact between Barry (CWS) and CAGPL cross-Delta routes
	19795			Gibbs Williams	Foothills CAGPL	Quote from Exhibit 266, environmental studies of Delta
	19831			Williams		Dredging Shallow Bay, impact on whales
131	19969-70	Mar.17		Berger		Summer versus winter construction; Prudhoe Bay Supply Line
133	20126-A-37	Mar.23		Rowe	CAGPL	Cross-Delta route, mitigative measures; assessment of Telesat communication system; Parsons Lake lateral; Niglintgak lateral
	20145-64			Environmental Panel	CAGPL	Impact of cross-Delta route
	20202-06			Gunn Dabbs	CAGPL CAGPL	Potential impact of hot oil pipeline on birds, vegetation
134	20245	Mar.24		Webb	CAGPL	Whales should not be denied access to Shallow Bay in the long term
	20261-73			Webb		Cumulative impact of various activities on whales in Delta area; use of river estuaries; artificial islands blocking ice and acting as barrier to whales
	20285-87			McCart	CAGPL	Impact on benthic organisms of siltation by Delta channel crossings construction
	20344-47			Jakimchuk Gunn McCart	CAGPL CAGPL	Acceptability of summer construction of cross-Delta and coastal routes
	20350-92			Environmental Panel	CAGPL	Cross-examination by Scott re impacts on Delta, North Slope

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135	20430-40	Mar. 25	YK	Jakimchuk Gunn	CAGPL CAGPL	Impact of cross-Delta route, possible changes, problems re mammals; cross-versus circum - Delta route; preferred routes re birds
	20446-57			Gunn		Impact of cross-Delta route, on nesting, moulting, waterfowl, Shallow Bay; importance of sedge areas; impact of cross-Delta route on mink, reindeer; preferred route for vegetation
	20481			McCart		Impact on lakes used by fish, cross-Delta route
	20487-92			McCart		Impact on fish, cross-Delta route; comparison with circum-Delta route; interior route impact, Canning River char
	20528-31			Hemstock	CAGPL	Impact of cross-Delta route; increased borrow requirements; air traffic
	20536-36A			Hemstock		Circum - versus cross-Delta route
	20548-54			Hemstock		Preferences, circum-versus cross-Delta route, matters considered
	20569			Webb	CAGPL	Impact of petroleum development on whales, North Sea
	20576-600			Sprague	MVPI	Case study, construction in Ontario, impact on aquatic life; impact of insecticides, siltation, petroleum, sewage, increased temperature, methanol on aquatic life
136	20612-17	Mar. 26		Jakimchuk McCart Gunn	CAGPL CAGPL CAGPL	Route using DEW line sites on North Slope for compressor stations, impact on mammals, birds, fish
	20620			Banfield	CAGPL	Oil spill risk greater with "DEW line route", North Slope
	20636-39			Sprague	MVPI	Studies of effects of oil refinery wastes on aquatic life; impact of siltation
	20646-53			Sprague		Effects of siltation on aquatic life; standards for safe levels
	20655-56			Sprague		Applying benthic organism diversity index change as measure of siltation
	20667-72			Sprague		Sensitivity of fish to pollutants, siltation; benthic organism diversity index change as siltation measure; oil concentration standards in water
	20697-702			Peet	MVPI	Sources of impact assessment information for Mackenzie Valley fisheries; "stress" on fish
	20709-10			Peet		Possible impact of construction on fisheries
	20735-42			Peet		Impact of construction on fisheries
137	20794-814	Apr. 5		Davies	MVPI	Measures to minimize environmental damages
	20878			Mossop	MVPI	Impact on wildlife, harvest harassment
138	20942	Apr. 6		Norton	MVPI	Effects of Trans-Alaska Oil Pipeline construction phase on fish and wildlife management
140	21322-26	Apr. 8		Usher	COPE/ITC	Bankslanders - concerns - impact of seismicity, oil development on environment
147	22514- 16	Apr. 28		Nahanni	NWT IB/MA	CAGPL application, statement that impact on wildlife would be minimal
C-40	3861	Feb. 23	AK	Greenland	Citizen	Sensitivity of area, damage to vegetation, if pipeline; impact of oil spill; post development effects on environment
C-50	4889-93	May 11	VAN	Stace-Smith	Citizen	Environmental damages; disturbance to birds, wildlife
	4922-23			St. Dennis	Citizen	Impact should be prime consideration before causing irremediable damage
	4929-33			D'Easum	Citizen	Hunting should be forbidden except to those needing food; polar bears, depopulation
C-52	5236-37	May 13	CAL	J. Poyen	Citizen	Willingness of industry to support regulations
	5245-47			M. Prior	Citizen	Line should be located where impact the least
	5295-96			M. Thiel	Citizen	Techniques, legislation available to prevent disturbance
C-53	5449-50	May 14		Pearce	Citizen	Must achieve balance between environmental change and economic advantages
C-54	5690-99	May 17	EDM	Leeson	Citizen	Ability of man to destroy worlds northlands whilst not intending to

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C-55	5865-66	May18	EDM	J. McDougall	Citizen	Need for co-ordinated constraints
	5951-52			A. Meyer	Citizen	Damage can be controlled
	5961			K. Vandergrift	Citizen	Need for safeguards, consideration of alternative routes
	6079-87			P. Prebble	Citizen	Energy corridor, future development
C-57	6171-72	May20	WINN	S. Kuehn	Citizen	Disruption of wildlife patterns
	6190-92			A. Lansdown	Citizen	Effects on terrain, vegetation; disruption of biological reserves; effects on mammals, birds, fish, environmental code suggested
	6232-33			M. Haave	Citizen	Concern for ecological damage
C-58	6347-48	May25	TO	F. Fairchild	Citizen	Destruction of balance of nature, permafrost
C-59	6480-85	May 26	TOR	D. MacKay	Citizen	Assessment, commencement 3 years before pipeline approval; need for experimental oil spills; publication of data
	6493-95			D. Matthews	Citizen	Restricted to a corridor, amount of terrain to be affected
C-60	6676-80	May 27		E. Welsh	Citizen	Developers, need to provide proof, no adverse effects
C-62	6909-10	May 31	MTL	Morin	Citizen	Pipeline should proceed but with least impact on environment
	6937-46			Ponting	Citizen	Protection of environment considered highest priority by public involved in study
C-63	7021-22	June 1		Mountjoy	Citizen	Pipeline should be laid with as little interference to environment as possible
	7039-40			Ford	Citizen	U.S. pipeline, destroying vegetation along ditches at camps, landing sites; indiscriminate withdrawal of water from springs, lakes; emission exhaust of compressor stations
	7082			Beauregard	Citizen	Pipeline project has its risks to the environment, better to prevent damage than to try and restore
C-64	7319	June 3	OTT	Harrison	Citizen	Environmental impact unavoidable due to enormity of project
C-65	7538	June 4		H.T.Schwarz	Citizen	Seismic lines, blasting of
C-67	7771	June 8	HAL	G. Yetman	Citizen	Damage to permafrost will upset ecology
169	26300	July 23	YK	Ruttan	NWT IB/MA	Effects of under-trapping, beaver
	26312			Ruttan		Pipeline and other development could be hazardous to forest environment
	26320-22			Ruttan		Renewable resource-based economy could be upset by over development, need for total control over land and water resources
C-68	7833-35	July 16	FP	Elleze	Citizen	Possible destruction of natural surroundings
C-70	7957	Aug. 9	RE	Chief Charlo	Citizen	Fear of pipeline leak, damage to land
C-71	8004-05	Aug. 10		N. Black	Citizen	Damage to land if pipe breaks, leaks
C-72	8149	Aug. 11	RE	P. Huskey	Citizen	Land will be spoiled by gas and oil leaks, water polluted
C-73	8179-80	Aug. 12	LLM	J.Z. Fish	Citizen	Damage caused by oil spill to land and animals
	8187			P. Beaverho	Citizen	Break in pipeline will destroy land, animals, soil
	8193-95			P. Nitsiza	Citizen	Frightened of pipeline destroying land, their livelihood
	8204-05			J. Moosenose	Citizen	Oil or gas spill will destroy game
	8209-10			H. Alexis	Citizen	Lakes polluted with oil, animals die from drinking lakewater
	8236			M. Nitsiza	Citizen	Pollution in lakes caused by mines
C-74	8269	Aug. 13	RL	A. Quitte	Citizen	Keep away animals
	8270			J. Watarde	Citizen	Gas leak, animals and fish die
	8274			B. Mantla		Effect of winter road on fishing; more people, less food

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C-74	8278-80	Aug. 13	RL	J. Quitte J. Mantla	Citizen Citizen	Gas spills, pollution, block caribou migration route, fire	
	8289			C. Chocolate	Citizen	Pollution, no compensation for natives	
	8290			J. Zoe	Citizen	Gas spill, lakes, land, people will get sick through chain	
	8293-94			G. Tailbone L. Black	Citizen Citizen	Pollution, spoil lakes, animals, land	
	8297			C. Tailbone J. Tailbone	Citizen Citizen	Destroy land, sickness through chain of events	
	8301-02			Father Amourous	Citizen	Animals migrate from developing areas, noise, destroy lifestyle	
C-75	8311-12	Aug. 21	CL	P. Blancho	Citizen	Seismic trails, ruin wildlife	
	8318			T. Codzi	Citizen	Damage to land from seismic trails	
	8326-27			D. Shea	Citizen	Will destroy land, poor hunting	
	8334-36			C. Cuzon	Citizen	Shortage of meat and fish, destroy land, fires	
	8338-39			J. Martin	Citizen	Trapping poor after exploration	
	8345-47			J. Gully	Citizen	Trapping poor after exploration	
C-76	8356-61	Aug. 25	DET	Chief Charlo	Citizen	Spoil land if breaks, spoil water through rust, kill life	
	8373			T. Tsetta	Citizen	Kill fish and animals if breaks	
	8374-75			M. Noel	Citizen	Spoil land	
	8377			P. Liske	Citizen	Affect migration routes	
C-77	8398-99	Aug. 26		A Lacorne	Citizen	Spoil land and lifestyle	
	8400-01			I. Sangris	Citizen	Animals leave developed areas, smell of gas, spoil water	
	8409-10			S. Abel	Citizen	Damage to land and animals if breaks, smell	
	8424-25			G. Doctor	Citizen	Animals leave developed areas	
181	28124-25	Sept. 8	YK	Reimer	MVPI	CLC concern, need for strict studies	
188	29121	Sept. 21		Searle	MVPI	Minimum disturbance recommended to wildlife and persons living off the land	
	29190-91			Mrs. Worl	COPE	Weaknesses of Impact Statement: one variable of impacting force on living environment measured, one project independent of other assessed	
192	29923-24	Oct. 4		Baring-Gould	MVPI	Not relevant for Valdez residents at present	
194	30359	Oct. 6		Hemstock	CAGPL	Anticipated impact of oil, gas pipeline construction on vegetation, fish, birds, mammals in Mackenzie and Yukon corridors	
195	30459	Oct. 7		Byers	Foothills	Construction plan amendment impact report	
	30476-96			Mirosh Byers	Foothills	Gravel pad abandonment, removal	
201	31763-78	Nov. 16		Marshall	CAGPL	Cross-delta route compared to circum-delta route	
203	32104-06	Nov. 18		Anthony	CARC	Opposition to cross-delta route across Shallow Bay; concern for environment if this route is selected; CAGPL has ignored the problem	
204	32263-64	Nov. 19		Ballem	GPC-D	Pipeline can be built within acceptable limits	
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XXVI	3088-90	Apr. 9	YK	Scott	MVPI	Nurse Parker's letter, Aklavik Nursing Station, families	
XXXII	4041	Apr. 18		Purcell	CAGPL	Compressor stations can be moved	
XXXVII	4783-84	May 13		Dau	CAGPL	Socio-economic monitors, duties	
XXXIX	5047	May 15		Williams	CAGPL	Fort Good Hope - impact of construction camps	
42	5572	May 21		Genest	CAGPL	Looping, employment opportunities	
43	5711-13	May 22		Templeton	EPB	National impact	
44	5738-51	May 23		Bell	NWT IB/MA	Inspectors, monitoring	
	5762-64			Horte	CAGPL	Not limited to actual area held for the pipeline	
	5770			Horte		Service to communities with natural gas	
	5957-60			Bayly	COPE/ITC	CAGPL evaluation of reports by consultants	

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47	6240-62	June 3	YK	Goudreau	EPB	Change in native way of life
C-I	13-15	Apr. 2	Aklavik	Thrasher	Citizen	Loss of native language
	17			Furlong	Citizen	Individual concern about influence of white people
	65			Malanga	Citizen	Free services, utilities available to the people
C-II	73-77	Apr. 3		Norbert	Citizen	Hostel system in the Territories
	115-16			Stoor	Citizen	Change to food of white people
	116-18			Stewart	Citizen	Loss of language
	124-126			A.Gordon	Citizen	Large construction camps in vicinity
	128-129			Ookpik	Citizen	Great change in native lifestyle
	132-135			Bean	Citizen	Social pressures, controls by authorities
C-4	253-254	May 28	Hay River	Fabien	Citizen	Growth, development on Indian way of life
	267-272			Lantz	Citizen	Problems left behind after construction
C-5	347-382	May 29		E.Dean	Citizen	Alcoholism, family break up
	410-417			Stewart	Citizen	Change in Hay River since 1940's
	421-427			Chase	Citizen	Law enforcement; Hay River Correctional Centre
C-6	480-576	May 30		Hay River Hearings		Impact on Indian way of Life
	579-595	May 31		Camsell	Citizen	Break in the social fabric of the native people
C-7	614-672	June 24	F.F.	Savi	Citizen	Impact on close-knit community relationship, interdependence
C-8	688-771	June 25		Denis	Citizen	Need to hold on to moral standards
C-9	774-833	June 26		Tutcho	Citizen	Loss of traditional way of life
C-10	836-70		W.L.	Citizens		Desire by native people to maintain traditional way of life
	872-983	June 27	F.N.	Citizens		Maintenance of traditional way of life
C-11	994	July 8	F. McP.	J. Simon	Citizen	Impact of Dempster Highway
	1025			M. Firth	Citizen	Possibility of jobs for younger generations; drinking
C-12	1067-1149	July 9		Citizens		Community hearings, Fort McPherson
C-13	1171-72	July 10		M. Snowshoe	Citizen	DEW line; workers laid off; drinking problems
	1206-07			W. McDonald	Citizen	Alaska situation; concern about Impact
	1244			J. Martin	Citizen	Construction camp to be located near Fort McPherson
	1253A-53B			J. Charlie	Citizen	Construction camp, impact on local communities
C-14	1292-93	July 11	O.C.	C. Charlie	Citizen	Changes brought about by arrival of white man
	1363-1476	July 12		Citizens		Community hearings, Old Crow
C-15	1477-1657	July 13		Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
	1715-65	July 17		Citizens		Community hearings, Fort Liard
56	7854-55	Aug. 18	YK	Horte	CAGPL	Influx of people
58	8148-49	Aug. 20		Blair	Foothills	Foothills concern as to effect made by construction camps on Northern society; camp regulations re: alcohol use, firearms
	8221-24			Blair		Foothills views; greater wage earning potential
	8232-33			Blair		Effects of construction camps to be few if placed at a distance from communities; constraint and restraint must be applied
	8250-52			Blair		Construction camps and proximity to communities; increased wage levels
51	6754-55	Aug. 11	WR	Smith	Gov't Yukon	Pipeline to affect community life, employment and way of life
	6810-15			Hemstock	CAGPL	Employment opportunities; economic development; opening up of previously more isolated areas
53	7087-7100	Aug. 13		Trusty	CAGPL	Effects of a road
	7118-39			Trusty		Impacts of pipeline; goals of development
	7185-92			Joe	CYI	Effects of fur trade, gold rush in Yukon
	7194-08			Sprecker	CYI	Accidents, criminal cases, alcohol and housing problems due to Alyeska

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53	7211-22 7250-58	Aug. 13	WH	Sprecker Wah-Shee	CYI NWT IB/MA	Increase in crime, population in Glenallen Valley Social cost of Arctic Gas proposal
54	7578-88	Aug. 14		Parker Weedon	CARC CARC	Studies completed re: El Paso route; terminus points and route selection; cost of research
C-18	1766-1834	Aug. 5	FGH	Citizens		Past & anticipated impacts of development on northern people
C-19	1835-1908	Aug. 6		Citizens		Past & anticipated impacts of development on northern people
C-20	1922-26 1943-48 1963-89 2017-20 2022-23 2025-28 2037-39	Aug. 7		N. Kakfwi M R. Drybone A. Tobac F. Barnaby L. Pierrot M. Wilson E. Cook	Citizen Citizen Citizen Citizen Citizen Citizen Citizen	Experience of influx of southerners who made money & left north; example of Yukon gold rush Fear of impacts similar to Alaska experience Contrast between native & white community residents; erosion of traditional ways Community breakdown from alcohol & generation gap Education system; use of liquor, drugs Construction camps - influence on young people Negative influence of pipeline workers
C-21	2095-96 2133-36 2199-02 2212-15	Aug. 9	NW	G. Monuik E. Koren E. Delbroucke Rowe W. Fraser	Citizen Citizen Citizen CAGPL Citizen	Dilemma between traditional & new native lifestyles Problems of Dene nation Camp workers in Norman Wells Injustices of development in NWT
C-22	2229-30 2253-54 2287-89	Aug. 11	WH	C. Pearson I. Armstrong A. Netherton	Chamber of Commerce Citizen Citizen	Effects on Old Crow Impact of construction camps; recommendations Effects of tight 3 year construction schedule
C-23	2296-97 2303-04 2313-15 2353 2358-61	Aug. 14		A. Cabret D. Greg A. Fekete C. Taylor Berger	Citizen Citizen Citizen Citizen Citizen	Impact on women Cultural ethnocide Minimizes effects of pipeline construction Experience of gold rush and Alaska highway Funding of native groups to determine effect of pipeline
62	8930	Sept. 16	YK	Scrimas	Foothills	Use of existing circuits by CAGPL or Foothills may tie up radio, telephone and television in the north
63	9001-11	Sept. 17		Beer	Foothills	Noise re compressor stations--impact on surrounding areas and communities
67	9854	Sept. 23		Templeton	EPB	Foothills has responsibility of preparing impact assessment
75	11057	Oct. 20		Weedon	CARC	Effect of a route on the community of Kaktovik Alaska; community participation
78	11489	Oct. 23		Roed	CARC	Terrain studies versus social impact studies re: edge of the shield route
80	18864	Nov. 4		Hemstock	CAGPL	Route change at Fort Simpson considered to have similar impact to original route
82	12263	Nov. 6		Williams	CAGPL	Influx of permanent residents involved in operations and maintenance
83	12352	Nov. 7		Scott Hemstock	MVPI	Borrow sites also good for sites of towns, houses etc.
90	13644-45	Nov. 19		Hemstock		Use of same facilities by future projects in corridor
97	14773-76	Dec. 5		Templeton Hemstock	EPB	Studies, cross-delta route
111	16979-87	Jan. 16		Davies	MVPI	Good route selection important in minimizing social impact; social studies used to justify route selected on economic criteria; various route selection methods, reactive, creative

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C-24	2437	Aug. 23	NB	H. Deneron	Citizen	Impact on the area due to use of Fort Simpson as a hiring point; use of the Nahanni River to get to and from the Park
	2461-65			Nahanni	NWT IB/MA	Pipeline would be the last straw for the kind of problems people of Nahanni Butte have to cope with; government little concern re: housing needing repairs, lack of jobs; land use permits re: Cadillac Mines; Nahanni National Park; tourists
	2465-67			M. Miller	Citizen	Boom phenomenon re: Impact of Ayleska project; influx of people; rising prices
C-25	2483-511	Sept. 8	FS	Dixon	NWT CC	Socio-economic impact of construction re: type, length of employment offered to northerners, wage standards, local inflation, community projects; 4 year construction schedule; training programs for natives; local government redefinition, expansion of education, water and sewage, housing facilities
	2574-80			Casavant	Citizen	Controlled vs. crash community development; culture, land claims issue; present community status re: employment, alcoholism, public services
C-26	2620-29	Sept. 9		Antoine	Citizen	Treaty 11 re: land claims; impact of white man re: discrimination, frustration; development and progress, destruction of native society; Fort Simpson re: racial tension; education, respect, understanding
	2636-48			Lafferty	Citizen	Problems of Metis, social conditions; racial war; damage to society - already done; repairs and protection; economic factors of pipeline re: development, population growth, hunting restrictions; control of social impact re: policing, education; mutual problems re: health, drunkenness; traditional society, hunting and trapping deteriorated; broken treaty promises
	2655-56			Villeneuve	Citizen	Liquor Store and highway re: native interest lost in hunting and fishing; boats and kickers sold - to buy booze; Dene people uninvolved in planning re: dislike white people
	2664-69			B. Menicoche	Citizen	Social problems re: change from traditional to economic base of life; alcoholism; breakdown of family unit; juvenile delinquency, social and moral degradation; social disorder in Simpson
	2690-712			Lamothe	Citizen	Confusion, alcoholism, frustrations, gaps re: products of industrial world; Community Resource Centre re: educational, cultural, social needs of native people; programs, projects at Fort Simpson
	2716-18			A. Nahanni	Citizen	Confusion of people re: value of money; payment for natural resources taken; relationship of money with wars
C-28	2816	Sept. 10	Wr	R. Moses	Citizen	Impact of change on Dene
	2836-37	Sept. 11		Lousson	Citizen	Hay River social changes resulting from highway
C-29	2864	Sept. 12	JMR	Kazon	Citizen	Indian identity, competition with white people, education
C-31	3006-10	Oct. 7	FR	McLeod	Citizen	Impact of change, alcohol on NWT natives
C-33	3104	Oct. 9	FS	Evans	Citizen	Social problems re: pipeline construction; combat with recreational facilities re: sports, camping, fishing, hunting, arenas
C-34	3314-15	Oct. 16	YK	Loftus	Citizen	Negative effects re: population growth, problems
C-35	3398-402	Oct. 22	LI	Wheeler	Citizen	Ayleska Pipeline construction - associated alcohol use, increased crime, divorce rates; Frobisher Bay study re: outside worker abuse of native women; impact of short-term highway employment on native men re: withdrawal from land based economy, strength of Dene family
	3408-10			Wood	Citizen	Native opposition - potential impact of pipeline; control of social, economic impact; erosion of local power, authority
	3412-15			Berger Carter Littledale	CAGPL Foothills	Measures to control outside workers from entering communities

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C-36	3461-62 3492-94	Jan. 28	In.	Heine Adam	Citizen Citizen	Nature of permanent jobs - impact on family Protection of community, trappers from unwanted guests; agreement on land claims, industrial development
	3519 3523-43	Jan. 29		Mainland Sineok	GPC-D Citizen	Community benefits from business expansion Government programs, legislation re: preservation of traditional lifestyles, transition to industrial, commercial economy; social impact of native-white contact, matriarchal society; Hobart report re: cultural replacement policy; impact of fur traders, church on Indians; direction of employment opportunities; alcohol use-family community instability; government income assistance; family financial administrators, educational probation, legal protection of children
C-37	3588-96	Feb.10		Usher	Citizen	Non-native control of pace, direction of northern development, the Inuvik community model
C-38	3623-24 3652-55	Feb.12		Lang Allison	Citizen Citizen	Pipeline impact re present way of life Social impact from Alyeska Pipeline re population increase, land, housing costs, housing developments; availability, quality of existing services; car pollution, accidents; recreational demands
	3691-92			McNeely	Citizen	Social impact of failure to settle land claims issue
C-39	3707	Feb.18		Robertson	Citizen	Social disruption caused by companies moving into Inuvik, necessity of Half-way House funded by government
	3741			Klassen	Citizen	Increase in crime rate and prostitution rate
	3746			Tanner	Citizen	Impact on young people, high crime rates, prostitution
	3750			Carmichael	Citizen	Increase in crime rate
113	17157-64 17182-84	Jan.21		Hobart Hobart	GPC-D	Overview of Mackenzie Delta area Effects of education on young natives' occupational and social aspirations; overall effects of development on Delta natives
	17226-34			Hobart		Effects on Coppermine people of exploration employment by Gulf
	17240-58			Hobart		Conditions in Inuvik in early days; natives leaving home for training programmes; family accommodation at gas plants, DEW line experience hiring single workers; separation from family during exploration work
	17267-74			Hobart	GPC-D	Reaction of Coppermine residents to gulf exploration work.
117	17878	Jan.26		Bayly Wopnford	COPE/ITC GPC-D-S	Impact on family life, breakdown, change in patterns
118	17937	Jan.27		Bayly Sider	GPC-D-G	Impact of oil boom on Inuvik
123	18741-46 18793-95	Feb.12		Yates Elkin Yates	MVPI MVPI	Definition of regional planning approach employed in Mackenzie Delta Need for social impact assessments to be done prior to granting of agreements in principle
	18845-58			Yates Elkin		Sources of background data employed in the formation of a listing on social problems and impact - related to development difficulties in quantifying social impact; preferential employment of native northerners; outpost camp programs re improvement of traditional, renewable resource based economy
133	20126-A-27	Mar.23	YK	Rowe	CAGPL	Cross-Delta route preferable, less impact on Delta communities

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135	20419-22	Mar. 25	YK	Bayly	COPE/ITC	Case studies as well as evidence in communities needed to show lack of consultation with natives by government, industry
139	21137-45	Apr. 7		Simmons	MVPI	Impact of oil exploration, development on Bankslanders - mistrust of DIAND officials
140	21291-94 21418-19	Apr. 8		Nicol Usher	COPE/ITC COPE/ITC	Social conflict associated with oil spills DIAND, industry - failure to recognize social impact of development
	21432-39			Usher		Bias involved in social studies conducted by government industry; static dynamic socio-economic impact studies
	21444			Cournoyea	COPE/ITC	Impact of meaningless consultations between natives, DIAND and petroleum industry
141	21494-504	Apr. 9		Usher		Impact of inadequate consultation process - industry, natives; growth in native political organizations; measures to ameliorate problems re inadequate consultation, suppression of information, terms of reference of assessment, institutional framework
147	22508-12	Apr. 28		Mahanni	NWT IB/MA	Impact of pipeline development on traditional way of life
148	22674-79 22713-14	Apr. 29		Asch Asch	NWT IB/MA	Social impact of the petroleum industry Using cultural background to evaluate potential impact of a pipeline
152	23220-52	May 6		Cruickshank McClellan	CYI CYI	Alaska Highway construction in Yukon - impact on natives related to potential impact of pipeline development; alcohol use, illness
	23313-17			McClellan		Adaptability of natives to change
	23362-63			Notti	CYI	Short-term residency requirement related to progress, development movement
153	23408-38	May 7		Sharp	CYI	Social impact study on native residents of Ross River, Anvil Mine, early background of development
	23429			Sharp	CYI	Impact of people involved with mineral exploration was minimal; more impact with other groups
	22435-46			Sharp		Impact of facilities and services created for government employees, Ross River; impact of people moving from Ross River to Faro
	23455-58			Sharp		Houses creating social insularity, Ross River, breakdown of marriages
C-41	4012	Mar. 3	HOL	Kanayok	Citizen	Drugs and alcohol if oil companies in communities
C-42	4126-27	Mar. 5	SACHS	L. Carpenter	Citizen	Effect of pipeline on way of life, young people
C-43	4139-40	Mar. 7	NSH	Chicksi	Citizen	Damage to land, impact of construction on their way of life, concern for future generations
	4148			D. Carpenter	Citizen	Concern for future generations, development should slow down
C-44	4185-86	Mar. 8	TUK	J. Steen	Citizen	Safety of families when breadwinner is away on job or schooling; problems with highway; liquor consumption, rifles
C-46	4457-60	Mar. 11	PAUL	N. Green Berger	Citizen	Effects of pipeline on social life, Alyeska as a precedent
C-47	4583-84	Mar. 13	ARR	W. Norman	Citizen	People will be poor because of pipeline
C-49	4791-92 4827	May 10	VAN	Scoten Wilson	Citizen Citizen	Positive impact, social advancement, programs Impact of oil companies, social pressures, breakdown of traditional social life
C-52	5237-40	May 13	CAL	J. Poyen	Citizen	Changes in native ways; employment opportunities, business ventures; impact on communities
C-53	5452-53	May 14		Pearce	Citizen	Positive values will help the Dene
C-54	5582-83	May 17	EDM	Cavanagh	Citizen	Impact on Edmonton due to demands of the pipeline
	5695-97			Leeson	Citizen	Impact on Edmonton, Fort McMurray

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C-55	5776-77 5798-01 5863-66	May18	EDM	J. Barry R. Dion J. McDougall	Citizen Citizen Citizen	Costing of social change Large labour force, impact on Edmonton Upgrading of support services; need for reconstruction of direct contact with communities
	5882-83			E. Kennedy	Citizen	Movement of people to northern centres, southern cities
C-58	6347	May25	TO	F. Fairchild	Citizen	Problems in Inuvik, disruption of way of life
C-59	6480-83 6557-58	May26	TOR	D. MacKay M. Gunn	Citizen Citizen	Assessment, commencing three years before pipeline approval; publication of data Presence of labour camps, proximity to native communities
C-62	6887	May31	MTL	Poirier	Citizen	Single men brought north to work, not spending their money there, not mixing with native people
C-63	7021 7031-32	June1		Mountjoy Ford	Citizen Citizen	Pipeline should be laid with as little social impact as possible Employment on pipeline would be temporary, could be a destabilizing effect to employment trends
	7092-93			Hughes	Citizen	Native people should be able to participate in pipeline and related activities
C-64	7279 7321	June 3	OTT	Brabozon Harrison	Citizen Citizen	Disruption of traditional pursuits Impact will also be in south, finances
158	24180-211	July 6	YK	Hobart	CAGPL	Employment, money concentrated with young men, group with fewest financial responsibilities; change from values of sharing; more drinking; psychological consequences
159	24306-26A 24339-48 24464-67 24505-06	July 7		Boorkman Boorkman Boorkman	CAGPL	Alaska, accelerated population growth, lag in supplying support services; effect on state, local budgets - inability to raise revenues to support expenditures; need for special assistance funds, "impacted" communities Alaska, lack of adequate state planning, huge in-migration to the state Alaska, in-migration
159-A	24537-47			Boorkman		Alaska, child abuse and neglect
160	24707-10			Asch	NWT IB/MA	Alaska, Alyeska pipeline, social groupings Wage employment among single men, alcohol abuse
163	25119 25145-50	July 14		Hobart Hobart		"Bust" conditions, impact on level of racial tension Effects of welfare and protectionist programs
164	25349 25380-93	July 15		Hobart Hobart		Social indicators used in assessment; change and wage employment Industrial employment, effect on extended family, previous impact of welfare
165	25513-15	July 19		Burrell	Foothills	Steps to minimize impact: routing of construction personnel; transportation to point of hire; self-contained construction camps; casual transportation not available to camp workers; emergency health services in camps; employment rotation and labour pool systems; adequate law enforcement facilities; regulations for contractors and sub-contractors
167	26030-46	July 21		R. MacQuarrie Brody	MHA/NWT COPE/ITC	Acculturation vs. social change; intentional vs. unintentional change instituted by whites
C-68	7830-32	July 16	FP	J. Thom	Citizen	Entry of whites, disruption of small communities; effects of settlement councils
C-69	7941-44			H. Simba	Citizen	Boarding schools, education in French
C-72	8098	Aug. 11	RE	A. Lisk	Citizen	White man disrupted natives' peaceful life, sharing
C-76	8371	Aug. 25	DET	I. Tsetta	Citizen	Problems with increased money
C-77	8405-06	Aug. 26		M. Betsina	Citizen	Destroy environment then can not pass a Indian culture

IMPACT SOCIAL (continued)

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171	26676-96	Aug. 17	YK	Dixon	MVPI	Alaska, need better data to evaluate, change in development attitudes; little consideration to studying this aspect, lack of effect on communities not directly connected with pipeline
172	26703-05 26849-60	Aug. 18		Dixon Kyllo	COPE/ITC	Alaska, belonging to unions, benefits Impact of wage-economy on traditional lifestyles; social disruptions also to southern communities, family problems
173	26898-803	Aug. 19		Kyllo		Alaska, increasing social problems with population growth
176	27368-86	Aug. 24		Button	COPE/ITC	Large scale development, negative effect, not worth benefits, effect on youth
178	27644-46 27651-55	Aug. 26		Merrett Pritchard Merrett Pritchard	MVPI MVPI	Concept of family, out-migration of workers, dependence on social assistance Positive effects of construction stretch out
182	28245-47 28279 28358	Sept. 9		Forth McCombs McCombs	MHA/NWT MHA/NWT	Alaskan suicide rate rose because of pipeline; increase in utilization of drugs, rise in gambling, theft, prostitution; coping with new lifestyle, quality of life; rise of venereal disease Impact of Alyeska Pipeline on Fairbanks; increase in crime, divorce, child abuse Pre-development planning for development to follow Alyeska
184	28442-43	Sept. 14		Kehoe	COPE/ITC	Mental health implications, problems
185	28631-33	Sept. 15		Noble	COPE	Alaska, increase in alcohol-related violence and accidents, increase in use of drugs, venereal disease, syphilis; unsanitary living conditions, overcrowding
189	29441 29447	Sept. 22		Harris Harris	NWT/AM	Impact of pipeline on Fort Simpson's present recreational facilities Adequate recreation facilities must be available to influx of young males; socially, Fort Simpson is not ready to handle pipeline
189A	29486-95	Sept. 22		R. Worl	COPE	Impact of Trans-Alaska pipeline construction on Inuit: change in family unit, disrupted solidarity, overcrowding; lack of proper housing; increase in alcohol and drug use; deterioration of Inupiat language; increase of violence, death, suicide
192	29918	Oct. 4		Baring-Gould	MVPI	Increase in deviant behaviour in Valdez due to pipeline: alcoholism, drug use, disorderliness and violence, prostitution, crime
194	30387-89	Oct. 6		Hemstock	CAGPL	Long-term construction period, positive impact
200	31658-61	Nov. 15		Genest	CAGPL	Consequences of delay, postponement of pipeline construction
201	31820-21 31856-59	Nov. 16		Gibbs MacQuarrie	Foothills MHA/NWT	Provision for social services not company responsibility Potential positive, negative effects of pipeline development, Alaska experience
202	31943-46	Nov. 17		Bayly	COPE/ITC	Need for objective community socio-economic impact assessment; Regional Impact Information Centre
203	32167-68	Nov. 18		Veale	CYI	Old Crow family and domestic relationship will change if pipeline built, problems

INCOME - LEVELS

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113	17165-73 17214-16 17227-35	Jan. 21	IN	Hobart Hobart Hobart	GPC-D	Family income figures report, Canada Manpower; actual figures, Mackenzie Delta area, various years Calculating incomes of native people in Delta Income into Coppermine from exploration employment with Gulf, effects

INCOME - SOURCES (continued)

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C-25	2575-80	Sept. 8	FS	Casavant	Citizen	Highway construction, training programs, pipeline impact on community re: income sources
C-26	2631 2679-80	Sept. 9		Modeste L. Menicoche	Citizen Citizen	Welfare re: refusal of government to grant, results Simpson re: Dene people poor jobs; not paid to live in North; welfare re: payment of government for land resources
C-27	2738-39 2775	Sept. 10		Cowie Grnon	Citizen Citizen	Farming in Britain, Fraser Valley; no government grant Welfare is largest single source of revenue in NWT
C-28	2787	Sept. 10	Wr	H. Hardisty	Citizen	Hunting and trapping, way of life
C-29	2872	Sept. 12	JMR	Lafferty	Citizen	Wage earners, supplement income by hunting and fishing
C-36	3537-41	Jan. 29	In.	Sineok	Citizen	Regulation of welfare recipient's spending habits; payments to unwed mothers; family financial administrators
C-37	3612-14 3615-16	Feb.10		Berger Workman	CAGPL	Distribution of gas revenue received from United States Distribution of gas revenue received from United States
C-38	3643-51	Feb.12		Rowe Berger	CAGPL	Distribution of gas revenue received from United States; compensation to natives re disturbance of livelihood; applicant payment of community taxes; resource royalties
C-39	3719	Feb.18		Hill	Citizen	Financial imbalance, dependency for welfare system
113	17201-02 17215-06 17231-36	Jan.21		Hobart Hobart Hobart	GPC-D	Wage employment gives greater independence than welfare From oil/gas exploration work in Delta for natives Welfare payments in Coppermine during Gulf exploration employment
122	18705-14	Feb.11		Stirling Smith	COPE/ITC COPE/ITC	Importance of seal catch to Holman, Banks Islands economy; polar bear harvest, sports hunting revenue
148	22557-59 22568-69 22635-36 22650-55 22667 22692-94 22706-08 22717-18	Apr.29		Nahanni Nahanni Rushforth Rushforth Rushforth Asch Asch Asch	NWT IB/MA NWT IB/MA	Territorial Government incentive grants, trappers Territorial incentive program to supplement trappers income during times of low fur prices, desire for native operation of the program Working to buy goods for bush life; trapping to supplement wage labor Estimating income derived from hunting, trapping, fishing, for 1974-1975 approximately \$3,500 - 4,100 per household Cannot assign dollar value to local exchange, income from the land Income from fur trapping, Slavey region Welfare representing a social intrusion; labor almost more of a problem than a solution With collapse of the fur trade, forced to seek other sources of income
150	22896-70	May 4		Hills	NWT IB/MA	Aboriginal Welfare Fund, Australia profit-sharing deal with transnational corporations
151	23107-08	May 5		McClellan	CYI	Family allowance, Old Age Pension payments
C-54	5613	May17	EDM	Shirt	Citizen	Welfare payments were able to drop with establishment of alcohol program, return to employment
154	23602-03	June 29	YK	Watkins	NWT IB/MA	Welfare, resistance to wage economy
C-59	6413	May 26	TOR	N. Zlotkin	Citizen	Mercury pollution, Grassy Narrows and White Dog reserves - loss of jobs, numbers on welfare
C-62	6896	May 31	MTL	Ciacchia	Citizen	Income security program to safeguard traditional pursuits, James Bay

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C-26	17269	May 31	MTL	Hobart	Citizen	Favourable reaction of Coppermine residents to oil exploration work because of wages offered	
153	23452-53	May 7	YK	Sharp	CYI	Household incomes in Ross River	
154	23597	June 29		Watkins	NWT IB/MA	Northern, native, national per capita incomes	
155-A	23851-52	June 30		Jelliss	NWT IB/MA	Total native income obtained in communities of Fort Simpson, Fort Liard, Nahanni Butte, little compared to total construction costs	
	23893			Jelliss		NWT levels compared to national average	
171	26559-60	Aug. 17		MacLeod	Foothills	Inflating wage rates, problem with people on fixed incomes	
	26643-45			Dixon	MVPI	Alaska, figures on increases	
178	27607-08	Aug. 26		Pritchard	MVPI	Pipeline wage increase, possibility of increase in existing wages, effect of competition between two markets	
179	27738-40	Aug. 27		Runge	MVPI	Relation of wages to rental cost of housing under programs, inequities in system	
	27757-58			Runge		Increase in wage for housing construction workers as result of completion of pipeline	
181	28203-05	Sept. 8		McRae Breckenridge	MVPI MVPI	Problem of retaining workers in other sectors because of high wages on pipeline; incentives to reduce disparities	
182	28244	Sept. 9		Forth	MHA/NWT	Expected increase in per capita income because of pipeline	
	28252			Forth		Recommended creation of index guaranteed income	
	28378-79			Clarke	COPE/ITC	Correlation between economic indigence and increased economic activity	
185	28581	Sept. 15		Schaefer	COPE	Fallacy of greater cash income bringing improved social conditions and therefore better health conditions	
192	29901-03	Oct. 4		Baring-Gould	MVPI	Valdez after pipeline, increase in income	
							<u>INCOME - SOURCES</u>
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C-I	19	Apr. 2	Aklavik	Carmichael	Citizen	Old Age Pensions	
	28			Paul	Citizen	Trapping for muskrat	
	65			Malanga	Citizen	Free services, utilities available to the people	
C-II	85-86	Apr. 3		Sittichinli	Citizen	Treaty payments of five dollars a year per person	
	96			F. Joe	Citizen	Unemployment Insurance during winter	
	117-18			Stewart	Citizen	Family Allowances	
	119			Edwards	Citizen	Collecting caribou horns	
C-6	589-590	May 31	Hay River	D. Sonfrere	Citizen	Living off the land, old age pensions	
C-7	617	June 24	F.F.	Kenny	Citizen	Hunting, trapping	
C-8	682-83	June 25		Touchou	Citizen	Trapping; working on boats	
	742			J. Naedzo	Citizen	Native people without money, Fort Franklin	
C-9	785	June 26		I. Modeste	Citizen	Living off the land	
	820-21			V. Dolphus	Citizen	Trapping	
C-10	880	June 27	F.N.	P. Andrew	Citizen	Introduction of welfare	
C-17	1717	July 17	F.L.	J. Bonnetrouge	Citizen	Social Assistance, Unemployment Insurance	
C-19	1887	Aug. 6	FGH	L. Jackson	Citizen	Trapping incomes	
C-20	1929-30	Aug. 7		G. Scott	Citizen	Dependency of natives on government in relation to development	
	1942-48			M.R. Drybone	Citizen	Desire to preserve traditional subsistence	
	2019-20			F. Barnaby	Citizen	Cultural attitudes re wealth	
	2027-28			M. Wilson	Citizen	Rejection of welfare	
	2065			F. Rabisca	Citizen	Impact of welfare	
C-21	2162	Aug. 9	NW	P. Tourangeau	Citizen	Rejection of U.I.C.	
	2194			J. Ross		Federal Gov't funding & benefits	

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165	25541-46	July 19	YK	Jensen	Foothills	Classifications of social assistance, recipients; relationship between pace of development and level of assistance; recommendations to Foothills, impact of pipeline on incidence and need for assistance
166	25784-90	July 20		Brody	COPE/ITC	Difficult to calculate income of native people
157	24087-91	July 5		Hobart	CAGPL	Transfer payments, government employment in Delta communities
158	24238-39	July 6		Trusty	CAGPL	Transfer payments to native people
159	24518-20	July 7		Boorkman D. Weinstein	CAGPL CAGPL	Alaska, transfer payments, effects of inflation
	24553-54			Trusty		Question re figures for unemployment, welfare recipients in NWT
	24574-77			J. Weinstein Trusty	CAGPL	Direct social assistance payments
160	24630-37	July 8		Asch	NWT IB/MA	Wage employment, potential negative effects; reasons for switch from traditional ways
	24681-83			Asch		Introduction of transfer payments, impact on family structure
	24705-10			Asch		Young people; entry into cash economy; alternatives to wage employment
	24720-26			Asch		Reliance on transfer payments due to method of payment, economic conditions
163	25105-06	July 14		Hobart	CAGPL	Welfare, impact on Old Crow
	25145-50			Hobart		Effects of welfare and protectionist programs
	25345-47			Berger		Evidence by Dr. Asch, greater long range benefits for native people from trapping than from pipeline employment
	25353-55			Berger		Economic assistance payments, impact of modest vs. significant growth in employment opportunities
167	25970-71	July 21		Usher	COPE/ITC	Western Arctic, per family from the land; value of country food
168	26139-41	July 22		Brody	COPE/ITC	Pond Inlet, hiring by Pan Arctic, significant contribution to local economy
169	26220-28	July 23		Stanley	NWT IB/MA	Passamaquoddy Indians, introduction to welfare 1930's; Aid to Dependent Children program
	26291			Ruttan	NWT IB/MA	Evaluating income sources from renewable resources is deceptive, difficult to give actual value
C-73	8159	Aug. 12	LLM	Chief Beaulieu	Citizen	People have no income, do not buy groceries
	8179			J. Z. Fish	Citizen	No steady income; animals killed used for food or money
	8188			P. Beaverho	Citizen	Each of steady income, people depend on land to feed families
C-75	8316	Aug. 21	CL	Loudzi	Citizen	Government aid after treaty signed
178	27609	Aug. 26	YK	Pritchard	MVPI	Expected decline if three year construction period, increase if stretch out in construction
	27635			Pritchard		Out-migration in communities, dependents left, supported by social assistance
189	29419-20	Sept. 22		Robertson	NWT/AM	Assistance for in-migration of unemployed persons in Inuvik
198	31320-27	Oct.14		Berger Gates Witty	MVPI MVPI	Welfare as subsidy to hunters and trappers similar to that given to fishermen and farmers; trapper assistance grants from Wildlife Division of Department of Natural and Cultural Affairs
204	32331	Nov.19		Parker	NWT Govt	Work to replace welfare, STEP

INSECTS

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C-23	2376-81	Aug. 14	WH	D. Taylor	Citizen	Increase in mosquitoes due to drainage at roadsides
76	11204-05	Oct. 21	YK	Weedon	CARC	Warble fly infection; caribou

INSECTS (continued)

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76	11259	Oct.21	YK	Weedon	CARC	Coastal areas are a region of escape from insects during mid-summer for the caribou
81	12129	Nov.5		McCart	CAGPL	Siltation a concern re: insects fish feed upon e.g. stone and may flies
85	12623-24	Nov. 12		Bayly McCart	COPE/ITC	Water withdrawal, North Slope lakes
89	13498	Nov.18		Jakimchuk	CAGPL	Caribou attempts to avoid
90	13636-37	Nov.19		Gunn	CAGPL	As diet for some birds rather than revegetation seeds
94	14274-76 14306	Dec.2		Jakimchuk Jakimchuk		Effect on caribou; energy budgets Caribou - stay ahead of the flies; movements of animals
95	14488	Dec.3		Jakimchuk		Fly season - disturbance, caribou
100	15242-43	Dec.10		Bouckhout	Foothills	Population dynamics of black flies as example of necessity to prejudge relevance of a study to project
105	16147-48	Dec. 17		Lent	CARC	Successful caribou crossing re: positive correlation with density of biting insects
106	16215-16 16219-22 16230 16236	Dec. 18		Calef Calef Calef Calef	CARC	Mosquitos, Warble flies and botflies harass caribou; calf mortality re: loss of blood to insects; cause of stampedes Caribou relief from insects; cause of stampedes; caribou loss of weight; calf mortality re: loss of blood to insects Harassment re: evolvment of caribou migration; stress and mortality re: calves Insect harassment dictates local movements of caribou
108	16424-25 16532	Jan. 13		McT-Cowan McT-Cowan	EPB	Research - insects on the coast; later emergence of mosquitoes on the coast re: calving Use of light oil for mosquito control
110	16755-58 16790-97 16887-90	Jan. 15		Bergerud Calef Bergerud Lent	CARC	Calving disturbance; habitat; post-calving aggregation Later insect arrival on the coastal plain; harassment - impacts Berm provides relief for the caribou from insects
111	16917-20 16936	Jan. 16		Calef Berger Bergerud		Porcupine herd harassment; caribou aggregate for relief Calves' mortality when disturbed during insect harassment
135	20588-89	Mar.25		Sprague	MVPI	Recommendations re insecticide getting into water; impact on aquatic life
136	20666-67	Mar.26		Sprague		Use of insecticides, regulation

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46	6144-46	June 2	YK	Bliss	EPB	8 preserves - need to maintain and protect them
56	7837	Aug. 18		Horte	CAGPL	Consultation by CAGPL re: proposed sites
59	8339-40 8398-99	Aug. 21		Blair Mirosh	Foothills Foothills	Foothills avoidance of Ebbutt Hills Review of Dr. Geist's testimony re: pipeline route and IBP site; controlled environmental impact opportunity
60	8580-88	Aug. 22		Scott Mirosh	MVPI	Routing; Foothills route around Ebbutt Hills
52	6953	Aug. 12	WH	Hemstock	CAGPL	Proximity of Fort Simpson route change to Ebbutt Hills I.B.P. site
54	7434-38	Aug. 14		Geist	CARC	Area in Yukon to which attention should be given; Proposed I.B.P. sites;Kluane National Park; ranking of routes in terms of I.B.P. sites
61	8622-24	Sept.15		Gibbs	Foothills	Ebbutt Hills; Yellowknife - Pine Point community supply lateral route; Deep Bay Wood Bison Sanctuary, Mills Lake Sanctuary; Horn River, Hart lake
64	9395	Sept.18	YK	Claridge	Foothills	Decision to avoid Ebbutt Hills & IBP site

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77	11368-69	Oct. 22	YK	Rutter	CARC	Ebbutt Hills; Arctic Gas to cross, Foothills to go to the west; controlled erosion and drainage program during construction; good engineering practices to control damage
80	11850-52	Nov. 4		Hemstock		Knowledge of IBP sites
83	12426-27	Nov. 7		Scott Marshall	CAGPL	Rat River possible IBP site
89	13516	Nov. 18		Banfield	CAGPL	Ecosystem information from I.B.P. studies
90	13581-82	Nov. 19		Dabbs	CAGPL	Vegetation information compiled for many sites
99	15109	Dec. 9		Bouckhout	Foothills	Ebbutt Hills site, route relocation
101	15431-47	Dec. 11		Peterson	CARC	Proposed Dolomite/Campbell lakes site; proposed avoidance area, Guideline No. 4; aggregate removal; Peterson's involvement with IBP; purpose of IBP and sites: to monitor wilderness areas, industrial developments, major engineering projects; compared with CAGPL'S project at Chick Lake; ecological reserves; management, protection; recommendations to the Inquiry
	15466-68			Zoltai	CARC	Pipeline alignments through Ebbutt Hills area compared; terrain crossed
102	15545-47	Dec. 12		Peterson		Monitoring, South-west corner, proposed Willow Lake IBP site
	15559-68			Peterson		Preferable not to place pipeline in proposed Firth River, Old Crow Flats IBP sites
	15589-609			Peterson		Proposed sites, interactions with pipeline; restrictions or outright avoidance; monitoring
	15651-53			Novakowski	CARC	IBP Site Committee deliberations; highest priority proposed sites
	15664-65			Novakowski		Encroachment of Foothills route on IBP sites
	15685-89			Novakowski		Status of proposals for sites, Firth River, Old Crow Flats, Campbell Lake-Dolomite Lake, Caribou Hills, Cirque Lake; approval process
	15689-90			Novakowski		Campbell Lake - Dolomite Lake proposed IBP site, both pipelines infringe
	15705-07			Novakowski		Willow Lake site, both pipelines traverse area; borrow pits
109	16587	Jan. 14		McT-Cowan	EPB	Special value for research
	16661-62			McT-Cowan		Size of IBP sites; difference from wildlife refuges
112	17064	Jan. 20	IN	Bliss	GPC-D	Caribou Hills, Campbell Lake, south end of Delta, Eskimo Fingers, importance of each area
	17095-97			Bliss		IBP sites where development might be excluded Caribou Hills, Campbell Lake, Liverpool Bay Eskimo Fingers
	17112-13			Bliss		Exclusion of oil/gas development in Caribou Hills proposed site
114	17352-56	Jan. 22		Mainland	GPC-D-I	Proposed rip rap borrow site within Campbell Lake proposed IBP site
129	19701	Feb. 17		Inglis	MVPI	Campbell Hills, Caribou Hills, rejected or not by consultant
	19710-12			Inglis		Gravel extraction at Parsons Lake, I.B.P. reserve
	19724-30			Marshall Inglis	CAGPL	Tununuk deposits within proposed I.B.P. site; I.B.P. site proposed in Caribou Hills
133	20134	Mar. 23	YK	Rowe	CAGPL	Rat River - MacDougall Pass proposed site avoided by cross-Delta route
135	20524-25	Mar. 25		Hemstock	CAGPL	Avoiding Rat River - McDougall Pass site, crossing Ebbutt Hills
	20544-45			Hemstock		Firth River site will not be avoided
138	21041	Apr. 6		Stephen	MVPI	Campbell Hills, proposed area for protection
C-54	5700	May 17	EDM	Berger		Programs to be established within the energy corridor
C-64	7259	June 3	OTT	Mosquin	Citizen	"Ecological sites in Northern Canada", "IBP Ecological Sites in Sub-Arctic Canada"

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193	30093-94	Oct. 5	YK	Hernandez	EPB	Use of revised northeastern boundary of proposed Caribou Hills IBP site to monitor pipeline construction; Dolemite Lake - Campbell Lake IBP site - intended as an inviolate ecological reserve
	20102-05			Hernandez		Brackett Lake site - pipeline, highway monitoring; Old Crow site - should remain undisturbed
203	32076-78	Nov. 18		Anthony	CARC	Main purpose; establishment of permanent outdoor laboratories for studies; land claims, rights of native people

INTERNATIONAL WILDLIFE RANGE

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56	7837-39	Aug. 18	YK	Horte	CAGPL	Consultation by CAGPL re proposed sites
99	15064-82	Dec. 9		Hemstock Banfield Gunn Berger	CAGPL CAGPL CAGPL	Preserving wilderness areas, government activities; Arctic coast not pristine; alternate locations for Range; reasons for having Range; distribution of similar areas on Arctic coast
103	15745	Dec. 15		Walker	CARC	U.S. government desire - pipeline, avoidance of wildlife refuge in N.E. Alaska
109	16668	Jan. 14		Templeton	EPB	Canadian Arctic Wildlife Range; native land use; International Wildlife Range Conference 1970
C-64	7261-63	June 3	OTT	Mosquin	Citizen	Extending US range into Yukon to form 18 million acre one
203	32067-76	Nov. 18	YK	Anthony	CARC	Must be established, its uniqueness, protection as wilderness area; Arctic National Wildlife Range is legal and psychological basis; Canada must develop similar policy; role of native people in management and conservation of range; routing through range, Fairbanks corridor should be considered

LABOUR FORCE - COMPOSITION

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C-4	220	May 28	Hay River	D.Dean	Citizen	Size; number of workers in south and north
	316-325			Uhlenberg	Citizen	Native workers, training
142	21626-27	Apr.13	YK	Virtue	NORTRAN	Northern, southern workers to be employed
158	24228-34	July 6		Hobart	CAGPL	Attitudes to natives among various levels of whites in the north
159	24456-67	July 7		Boorkman	CAGPL	Difference between immigrants, transients
161	24819	July 12		Hollands	CAGPL	CAGPL, jobs for northerners; orientation, counselling programs
162	24975-78	July 13		Trusty	CAGPL	Proportion of residents vs. non-residents taking jobs
C-68	7850-51	July 16	FP	Wirth	CAGPL	Numbers involved in construction, skilled vs. unskilled workers
170	26434-35	Aug. 16	YK	Deyell	Foothills	Number of northerners forecasted to fill positions
171	26516-22	Aug. 17		Burrell	Foothills	Policy, preference for northerners over southerners given they have same qualifications, rotating workers
	26522-31			Burrell Ellwood		Hiring of northerners, definition of northerner suggestion of quota system for hiring, measurements of success of preferential hiring
	26534-52			MacLeod	Foothills	Estimation of number of northerners available, capacity to fill jobs with northerners
	26628-33			Dixon	MVPI	Alaska, difficulty in monitoring local hire and minority hire
181	28049	Sept. 8		McCambly	MVPI	Against quota to ensure native employment
	28090-94			McCambly		Difficulty in making quotas for northerners due to shortage of skilled labour
	28104-07			McCambly		Against strict quotas, unions role in monitoring native representation, problems of communication in integrated work crews
	28143-44			Reimer	MVPI	Preferential hiring of northerners
182	28253	Sept. 9		Forth	MHA/NWT	Recommended that companies screen out undesirable southern employees re their adaptation to northern working environment
	28331-36			Clayton McCombs Forth	MHA/NWT MHA/NWT	Screening out undesirable southern employees to ensure sensitivity, DEW line personnel model, effectiveness of test
	28383			Clarke	COPE/ITC	Non-northern manpower should live in Fort Simpson, Norman Wells, Hay River
186	28855-62	Sept. 16		Braden	MVPI	Placement of natives at a single camp site; Alberta suggest apprentice journeymen ratios
198	31219-21	Oct.14		Witty	MVPI	Labour pools in Aklavik, Fort McPherson, Fort Franklin, Fort Norman, Fort Providence, Rae-Edzo, Cambridge Bay, Rankin Inlet, Eskimo Point for community use; maintaining inventory of northern labour force, TERIS
	31225-29			Witty		Estimated NWT labour force of 17,000 people; ethnic breakdown; estimated jobs in NWT: 10-12,000; rate of labour force growth
	31250-51			Berger		NWT labour force; unemployed are primarily native peoples
	31390-92A			Witty		Incapability of some persons aged 55-65 to work; labour pool in Rae-Edzo

LABOUR FORCE - QUALIFICATIONS

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C-4	247-250	May 28	Hay River	Tetrault	Citizen	Certification of barge, tug workers
C-5	333-334	May 29		Graves	Citizen	Tradesmen certification
	390-395			Tetrault	Citizen	Union membership; licencing of pilots on Mackenzie River
	396-397			Graves	Citizen	Apprenticeship program
58	8248-49	Aug. 20	YK	Blair	Foothills	Up-grading of skills; union certificate recognition; non-standardization of skills presents barriers to employment
142	21536	Apr.13		Virtue	NORTRAN	Reduced educational job entry requirements, Nortran program
	21548-49			Giroux	NORTRAN	Nortran program educational requirements
	21594-96			Virtue Behn	NORTRAN	Nortran trainees job skills

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142	21621-23	Apr. 13	YK	Virtue	NORTRAN	Nortran trainees, training levels
	21631-33			Virtue		Employment of unskilled workers, pipeline construction
	21654-63			Virtue		Qualifications for Nortran program; training for construction jobs
143	21689-710	Apr.14		Virtue		Qualifications needed for entry to Nortran program
	21733-38			Virtue		Feasibility of training program for construction workers; DACUM program; job standards
148	22734-35	Apr.29		Asch	NWT IB/MA	Foothills report suggesting that the native community will be a highly trained labour force in the next decade
153	23416-19	Mar.7		Sharp	CYI	Anvil Mine, construction crew, employed almost all from outside of Yukon Territory
161	24785-88	July 6		Williams	CAGPL	Description of crews needed, skill classifications
	24818			Carlson	CAGPL	If education standards are lowered, could be deterrent to advancement
	24881-96			Hollands	CAGPL	Classes of employment; use of government classification system; mobility between jobs.
162	25004-08			Hollands		Job classifications, construction spreads; on-the-job training
	25014-25			Hollands		On-the-job training, construction spreads; Alyeska, trainees, effect on operation efficiency
163	25195-97	July 14		MacQuarri	MHA/NWT	Suggested psychological screening of those to live in camps
169	26340-42	July 23		Ruttan	NWT IB/MA	In Fort Good Hope, many Dene have equal qualifications to the non-Dene, yet hold lesser jobs
170	26413-14	Aug. 16		Ellwood	Foothills	Skill levels, % of workers at various levels
180	27899-904	Sept. 7		Hodson	MVPI	Degree of experience critical to safety in job ; preferential employment and experience
	27917			Bayly Hodson	COPE/ITC	Priority employment if qualified and a northerner
	27921-23			Nessel Marriott	MVPI MVPI	Ability of southern workers to work in northern environment, winter conditions
	27935-36			Bayly Hodson		Supplementing skills after work on pipeline; ability to follow pipelining
	27937-41			Nessel		Vocational training school's 90 day courses, insufficient training, qualified only for basic jobs; training period prior to start-up of construction, crucial to sorting out process
181	28043-45	Sept. 8		McCambly	MVPI	Special construction skills, welding, wideboom; on-the-job training
	28060-61			McCambly		Job and skill classifications
	28086-98			McCambly	MVPI	Skill assessment of northerners, craft by craft, union involvement, difficulty in meeting quotas with skilled northerners, training costs, screening applicants to a trade
183	28409	Sept. 10		Clarke	COPE/ITC	Use of prefab housing keeps skills low in north

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XXX	3744	Apr.15	YK	Holmberg	CAGPL	Manpower estimates
XXXII	4154-57	Apr.18		Holmberg		Work force not reduced with use of automatic welding
43	5575-78	May 22		Williams	CAGPL	Manpower requirements, looping
50	6645-46	June 6		Marshall	CAGPL	Requirements based on most likely schedule
51	6811-14	Aug.11	WH	Hemstock	CAGPL	Available labour force in N.W.T. and Yukon; due to increased length of Fairbanks and Fort Yukon corridors the duration of employment will be greater; mainline route about equivalent length as Interior route; employment opportunities re: operation and maintenance aspects
117	17888-89	Jan.26	IN	Bayly	COPE/ITC	Gemini-North report, supply greater than demand
	17904			Marshall		Canadian Pipeline Construction shortages, availability of workers

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118	17950-54	Jan.27	IN	Goudge Sider Wopnford	MVPI GPC-D-G GPC-D-S	Gulf's native labour from Coppermine, labour pools in Tuk and Aklavik; Shell and Fort McPherson labour; bidding for labour, overstrain on market
142	21560 21592-94 21601-02 21640-48 21652-54	Apr.13	YK	Virtue Virtue Virtue Virtue	NORTRAN	Manpower Delivery System Trainee recruitment for Nortran program Recruitment of Nortran trainees in the N.W.T. Job opportunities for Nortran trainees Recommendations on recruitment program for northerners
C-54	5724-27	May17	EDM	Robertson	Citizen	Workers commuting between Fort McMurray and Edmonton
155	23687-90	June 30	YK	Watkins	NWT IB/MA	Non-natives, availability and recruitment
159	24306-09 24365-67 24380-99	July 7		Boorkman Trusty Boorkman	CAGPL CAGPL	Alyeska, impact on Alaska - creation of new jobs; unemployment due to influx of those looking for jobs, and entrance of previously unemployed to work force; high labour turnover; loss of employees in businesses, services to the pipeline Loss of skilled labour to Alyeska pipeline, Alaska; much higher wages due to long working hours Alaska, labour shortages, social impact, location of hiring halls; Manpower Delivery System, NWT; question of policy of local hiring
161	42851-58	July 12		Trusty		Alaska, under-estimation of labour-intensiveness, of numbers to be employed ; CAGPL, possibility of need for more staff than estimated
164	25376-82	July 15		Hobart	CAGPL	Pipeline multiplier effect, wider range of employment opportunities for native people
C-68	7880-85 7915-17	July 16	FP	Horte Ellwood Horte	CAGPL Foothills	Possible jobs, Axe Point, for Fort Providence residents Jobs would last for perhaps five years; training programs
170	26373 26398-400 26474-84	Aug. 16	YK	MacLeod Burrell MacLeod MacLeod Jensen	Foothills Foothills Foothills	Foothills, recruitment of new entrants to labour market; estimates of labour availability Projections, need for manpower from the south, mobility of local force 5-800 people were available for employment in 1974; employment preferences
171	26518-22 26534-52	Aug. 17		Burrell MacLeod	 Foothills	Proposes establishment of pool system, allows people to carry out functions in community, insures supply of workers Capacity to fill jobs with northerners; estimation of other jobs available in secondary fields
175	27233-27	Aug. 23		MacLeod	NWT/CC	Shortage of trained, skilled and professional personnel; local business at disadvantage relative to public sector re personnel recruitment; labour drain in businesses due to benefits of pipeline development
179	27757-58 27790-91	Aug. 27		Runge Runge	MVPI	Problems of NWT Housing Corporation competing for workers with pipeline, wages Predicted shortage of local labour for housing construction
180	27871-73 27933-34 28020-24	Sept. 7		Hodson Nessel Berger Nessel Nessel Hodson	MVPI MVPI MVPI	Shortages of skilled Canadian workers, plans to upgrade existing industry people; Inter-Provincial Pipeline, crash training programs Flying workers to and from job-site; source of supply, Edmonton; highly skilled equipment operators, Edmonton staging area Pre-job conference to decide manpower requirements; name requests for individual employees
198	31336-38 31366-73	Oct.14		Gates Forth	MVPI MVPI	Monitoring flow of foreign workers, attempt to locate skilled Canadian workers Priorities of Northern Careers Program

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XV	1717	Mar.11	YK	Dau	CAGPL	Campbell Lake
XVII	1957	Mar.13		Williams	CAGPL	Blackwater, Fish and Willow Lakes
	1927			Mollard	CAGPL	Sunny Lake, Big Stone Lake, Knoll Lake Campbell Lake
XXIII	2702	Mar.21		Williams		Dolomite Lake, snow harvesting
XXV	3065-68	Apr.8		Cooper	CAGPL	Great Bear Lake - constant input to Mackenzie River
XXXII	4307-10	Apr.21		Williams		Dolomite - snow harvesting
XXXVIII	4840	May 14		Williams		Dolomite Lake, snow roads
	4993			Williams		Dolomite Lake
40	5236	May 16		Hurd	CAGPL	Chick Lake, test site
47	6198	June 3		McT-Cowan	EPB	Travaillant, Great Bear, Brackett, re: mammals
C-I	48	Apr.2	Aklavik	Ross	Citizen	Seismic work by Shell Canada, Shallow lakes
C-7	618	June 24	F.F.	Kenny	Citizen	Great Bear Lake
	636-38			Naedzo	Citizen	Dredging Great Bear Lake; impact on fishing
	645			Nahanni	NWT IB/MA	Great Bear Lake
C-8	679-80	June 25		Touchou	Citizen	Snare Lake
	766			L.Tanoton	Citizen	Rae Lakes region
C-9	796-98	June 26		J.Bayah	Citizen	Great Bear Lake
C-10	835-70	June 26	W.L.	Citizens		Hearings held at William Lake
	891	June 27	F.N.	V. Menico	Citizen	Willow Lake, Great Bear Lake
C-16	1635	July 13	O.C.	J. Tizya	Citizen	Ethel Lake
C-17	1691-95	July 16	F.L.	P. Nahanni	Citizen	Fisherman, Fish, Bovie and Sandy Lakes
59	8479-80	Aug. 21	YK	Fawcett	Foothills	Husky Lake also referred to as Eskimo Lake; potential barge use by Foothills; community of Tuktoyaktuk concern
52	6894	Aug. 12	WH	Hemstock	CAGPL	Chick Lake - monitoring of pipeline/highway impact
	6993			Banfield	CAGPL	Kluane Lake as recreational resource
53	7181-83	Aug. 13		Joe	CYI	Arkell-Kusawa, Laberge
54	7442	Aug. 14		Banfield		Bluenose Lake caribou herd wintering down north of Great Bear Lake
55	7600	Aug. 15		Hughes	CARC	Kluane Lake
	7641			Morlan	CARC	Watson Lake re: Klondike, CampbellHighways route; Proximity to archaeological sites
C-19	1875	Aug. 6	FGH	Father Labatt	Citizen	Bear Lake-travel routes of Ft. Good Hope people
	1886			L. Jackson	Citizen	Loon Lake - use by Ft. Good Hope people
	1905			M. Rabisca	Citizen	Rorey Lake - Effects of human activity on Marten
C-20	1926	Aug. 7	FGH	N. Kakfwi	Citizen	Great Slave Lake - Small business loans for commercial fishing
	1959			J. T'Seleie	Citizen	Manuel Lake, Rorey Lake, Kilekale Lake (?) Colville Lake - use by Fort Good Hope people
	1981			A. Tobac	Citizen	Colville Lake
C-21	2125	Aug. 9	NW	C. Barnabe	Citizen	Location of Fort Franklin
	2140			C.Tourangeau	Citizen	Mills Lake
	2163			P.Tourangeau	Citizen	Kulthili Lake
61	8623	Sept.15	YK	Gibbs	Foothills	Hart Lake, Mills Lake Sanctuary re: Yellowknife Pine Point service lateral
	8626			Mirosh	Foothills	Zama Lake re pipeline chilling
	8331			Mirosh		Zama Lake - intersection point with AGTL
62	8890	Sept.16		Mirosh	Foothills	Zama Lake - extentions onto existing pipeline communication systems
64	9435	Sept.18		Spafford	Foothills	Gauging of winter flow at Great Slave Lake of Great Bear & Mackenzie Rivers
65	9601	Sept.19		Mirosh		Mills Lake; Great Slave Lake
66	9819-27	Sept.22		Jarvis	Foothills	Removal of snow for winter roads; impact
67	10024	Sept.23		Mirosh		Use of lakes as winter landing sites
68	10047	Sept.24		Hushion		Zama Lake

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70	10512	Sept.26	YK	Owen	MVPI	Fisherman's Lake; borrow pits
	10515			Owen		Borrow pits; Fisherman's Lake area
	10527-28			Owen		Fisherman's Lake; exposure of Pointed Mountain Line
72	10766-67	Oct.15		Lewis	MVPI	Husky Lakes re: barge transportation; Eskimo Lake
74	11013	Oct.17		Williams	CAGPL	Parsons Lake; Gulf Winlea Road
76	11300-02	Oct.21		Hughes	CARC	Great Bear Lake, area of continuous permafrost
	11304			Hughes		Kluane Lake, area of glacial lake silt
77	11349-77	Oct.22		Rutter	CARC	Sibbeston Lake, Bulmer Lake; Blackwater Lake re: fluting field; major physiographic regions; terrain and soil information
	11408			Rutter		Fish Lake; waterbody crossings
	11457			Roed	CARC	Great Slave Lake, Great Bear Lake, re: fluted moraines; Eskimo Lakes
	11468-88			Roed		Edge of the shield route; selection and route locations; major waterbody crossings; Horton Lake, Glacial Lake McConnell; Great Bear Lake; Lac La Marte; Eskimo Lakes; Keller Lake; Sitidgi Lake; Carcajou Lake, Great Bear River - low relief; Lac Belot
78	11490	Oct.23		Roed	CARC	Great Bear, Great Slave Lakes; water body crossings; studies
	11515-20			Roed		Rainbow Lake; Great Bear Lake; Great Slave Lake crossings
	11539			Roed		Great Bear Lake to the south into a zone of discontinuous permafrost
	11544-48			Roed		Glacial Lake McConnell; Great Slave Lake crossing, Great Bear Lake crossing
	11551			Roed		Sitidgi Lake re: edge of the shield route to follow flutings
	11554			Roed		Rainbow Lake
	11589-96			Roed		Great Bear Lake
79	11691-92	Nov.3		Minning	CAGPL	Yaya Lake; Lost Reindeer Lake; Parsons Lake
	11723			Dabbs	CAGPL	Parsons Lake area - revegetation studies
80	11814-15	Nov.4		Clark		Chick Lake, Jimmy Lake, Peter Lake
	11921-24			Dabbs		Snow removal from lakes Peter's Lake
81	12032	Nov.5		Minning		Parsons Lake area - borrow shortage
	12035			Minning		Ya-Ya Lakes
	12043			Minning		Big Stone Lake, Sunny Lake, Travallant Lake
	12046-49			Minning		Parson's Lake, Campbell Lake, Travallant Lake, Sandy Lake, Sunny Lake
	12052			Minning		Sandy Lake, Sunny Lake
82	12136-37	Nov. 6		Hemstock	CAGPL	Three million cu. yds. borrow material to be removed from Parson's Lake area for gas plant
85A	12747	Nov. 12		McCart	CAGPL	Spawning, Three Day Lake; overwintering Great Bear Lake, Stewart-Tatla lakes, B.C., Salmon population affected
	12783-84			McCart	CAGPL	Stewart-Tatla lakes, B.C., salmon population affected
86	12838	Nov. 13		Claridge	Foothills	Drainage, erosion study area, north of Chick Lake
	12896			Drew	Foothills	Borrow availability, prehistoric Great Slave Lake
87	13059-61	Nov. 14		Bayly	COPE/ITC	Gravel sources, Parsons Lake - Eskimo Lake area; Yellowknife lateral near Birch Lake
				Drew		
				Davison	Foothills	
	13077			Reeves	Foothills	Chick Lake, sensitive archaeological area
88	13313	Nov.17		Davison		Parson's Lake, borrow sources
90	13581-82	Nov.19		Dabbs	CAGPL	Vegetation information for Summit Lake, Brackett Lake, Mirror Lake I.B.P. sites
91	13909	Nov.20		McCart		Monitoring station, Chick Lake, siltation
92	13980-81	Nov.21		McCart		Great Bear; impact of sport fishing on fish populations

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93	14086	Dec.1	YK	McCart	CAGPL	Three Day Lake, source of grayling
94	14198-99	Dec.2		Marshall	CAGPL	Parson's Lake; gas plant and gathering line systems
95	14446-51	Dec.3		McCart	CAGPL	Chick Lake test site; studies in cumulative impacts; corridor concept
	14493			Banfield	CAGPL	Ghost Lake
96	14603	Dec.4		Jakimchuk	CAGPL	Chapman Lake
99	15047	Dec.9		Scott	MVPI	Chick Lake test site, detailed monitoring
	15108			Boukhout	Foothills	Sandy Lake, trap lines, route changes
	15127			Finney	Foothills	Yellowknife lateral, possible bird problems in Mills Lake/Beaver Lake area
100	15197-200	Dec.10		Finney		Mills Lake, Beaver Lake area, waterfowl population
	15212			Whitney	Foothills	Parsons Lake, reindeer overwintering
	15240			Whitney		Lake Winnipeg, Stardom's woodland caribou study; Mills Lake, migratory waterfowl surveys
	15327			Hayden	Foothills	Wolverine Lakes, headwaters of Holmes Creek
	15331			Whitney		Holmes Creek crossing relocation complications due to drainage from Wolverine and Peat Lakes
101	15429-32	Dec.11		Peterson	CARC	Tathlina Lake, Kakisa River, important wildlife habitat; Threeday Lake drainage important fishery area; Dolomite/Campbell Lakes proposed IBP site; proposed as avoidance area, Guideline No. 4
	15439-40			Peterson		Chick Lake, site of CAGPL study; Willow Lake/ Brackett Lake recommended as IBP industry monitoring site
	15444-46			Peterson		Proposed IBP sites, Brackett, Dolomite-Campbell, Willow, Devil, Canoe, Mills, Hart Lakes.
102	15591-608	Dec.12		Peterson		Proposed IBP sites, Campbell Lake-Dolomite Lake, Willow (Brackett), Hart Lakes; Peter Lake, hydrological studies; Chick Lake, CAGPL test site
102	15665	Dec.12		Novakowski	CARC	Encroachment of Foothills line on Campbell Lake - Dolomite Lake IBP Site
	15686			Novakowski		Status of proposed Campbell Lake-Dolomite Lake, Cirque Lake IBP Sites
	15689			Novakowski		Both pipeline routes infringe on Campbell Lake - Dolomite Lake IBP Site
	15705-07			Novakowski		Campbell Lake - Dolomite Lake, Willow Lake IBP sites, both pipeline impinge
103	15751	Dec. 15		Walker	CARC	Kluane, Kusawa, Lebarge, Little Atlin, Teslin re: fisheries
	15824-25			Stein	CARC	Listed - sensitive systems
				Marshall	CAGPL	
	15831-33			Stein		Impact of Edge of Shield Route on Great Bear Lake, Great Slave Lake
104	15970-73	Dec. 16		Walker		Aishihik Lake hydro-electric project; environmental protection legislation, construction plans and practices
105	16048	Dec. 17		Marshall		Summit Lake re: watershed
C-24	2395-97	Aug. 23	TL	H. Deneron	Citizen	Trout Lake re: headwaters of streams and rivers which flow into Trout Lake
	2400-01			T. Kushia	Citizen	East Trainor Lake, creeks running into Trainor Lake, Trout Lake water system
	2409-10			Nahanni	NWT IB/MA	Trout Lake, Bovie Lake, Tetcho, Bistcho Lake, Trainor Lake
	2415			E. Jumbo	Citizen	Trainor Lake, and the creeks that flow into Trout Lake
	2418			Hushion	Foothills	Trainor Lake
	2421			Rowe	CAGPL	Trainor Lake, headwaters of rivers originating east of Trainor Lake and drain into Trout Lake
	2458-61		NB	Nahanni		Yohin or Chitu Lake; Toad Lake; Larson Lake or Eh thé tsele; Sibbeston Lake, Little Doctor Lake, Tea Lake; Watson Lake, Swan Lake

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C-26	2662	Sept. 9	FS	P. Nahanni	Citizen	Fisherman's Lake, Sibbeston Lake, Antoine Lake, Miles Lake, Great Slave Lake, Bolmer Lake, Little Doctor Lake, Cli Lake, Trout Lake, Lac Le Martre; Rae Lake, Keller Lake
C-28	2786 2824	Sept. 10	Wr	H. Hardisty P. Nahanni	Citizen	Fish Lake re: trapping Keller, Great Bear
C-31	2995 3000	Oct. 7	FR	M. Beaulieu Morin	Citizen Citizen	Great Slave Lake - pollution from gold, ore mines Great Slave Lake - communities, feeder line service
C-32	3059	Oct. 8	FR	Mandeville	Citizen	South Great Slave Lake communities not affected as much by pipeline
C-35	3390 3392-93	Oct. 22	LI	Carter Littledale	CAGPL Foothills	Great Bear Lake, Great Slave Lake - pipeline route Fisherman's Lake - Westcoast Transmission pipeline construction, operation experience
C-36	3513 3550-52	Jan. 29	In.	Mainland Ellwood	GPC-D Foothills	Parsons Lake plant site - gas flow capacity, design, well drilling pattern Great Slave, Campbell, Sitidgi North Caribou Lakes re: proposed removal sites
112	17043-46 17052-58 17068	Jan.20		Bliss Bliss Bliss	GPC-D	Sitidgi Lake, vegetation, reindeer, muskrat; Parsons Lake, typical terrain, vegetation Parsons Lake, Eskimo Fingers, reindeer habitat, duck feeding, production, moulting. Eskimo Fingers, proposed IBP site; importance for waterfowl.
	17073			Bliss	GPC-D	Arctic Island lakes not as productive as Delta waters
	17077-80			Bayly Bliss	COPE/ITC	Husky Lakes to be used to transport materials to Parsons Lake; whale use of area; no nutrient enrichment for Arctic island lakes
114	17280 17291 17346-57			Mainland Mainland Bayly Mainland	GPC-D-I	Taglu gas field near Big Lake Taglu gas field, borrow material source at YaYa Lake Campbell Lake, borrow source, application for permit to use for rip rap for offshore artificial island
	17424-29	Jan.22		Faulkner	GPC-D-S	Yaya Lake esker as gravel source for Niglintgak gas field
115	17538 17543-44 17582	Jan.23		Stamberg Stamberg Bayly Stamberg	GPC-D-G	Eskimo Lakes, equipment barged to Hans Bay via lakes for Parsons Lake gas field Parsons Lake gas field, fresh water sources, Parsons Lake, Hans Bay in Eskimo Lakes Transporting material directly across Husky Lakes to Parsons Lake gas field
116	17606-13 17622-24 17650 17652-54 17673-74 17704	Jan.24		Stamberg Scott Stamberg Berger Bayly Rempel Rempel Rempel Appleton	GPC-D-G COPE/ITC GPC-D-I	Husky Lakes transportation route to Parsons Lakes gas field, possibility of dredging, scaling fingers, responsibility of company or government to dredge or scale; Yaya Lake, alternate site to Parsons Lake Husky Lakes environmental studies, transportation of modules to Parsons Lake via Husky Lakes Parsons Lake area road threatens drainage patterns and slope stability Eskimo Lakes, dredging not planned; Yaya Lakes, commercial fisheries over-exploitation; Parsons Lakes, potential for over-fishing Siltation controls in Yaya Lake Effects of barging on fish in Husky Lakes

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116	17706-07	Jan.24	IN	Appleton	GPC-D-G	Barges on Eskimo Lakes; dredging, scaling fingers of Eskimo or Husky Lakes
	17744			Motyka	Citizen	Relationship between gas reserves and water depth in Parsons Lake
117	17772-73	Jan.26		Webb	GPC-D	Fishing in Yaya Lake, over-exploitation, regulatory controls
	17792			Webb		Hay-Zama Lakes region, migratory flight of snow geese
	17809-10			Rempel		Yaya Lake gravel source
118	18003	Jan.27		Bayly Motyka		Dredging Husky Lakes
	18084			Horsfield	GPC-D-I	Campbell Lake, permit to take riprap
	18097			Goudge Motyka	MVPI GPC-D-G	Permanent jet strip at Parsons Lake
121	18441	Feb.11		Barry	COPE/ITC	Eskimo Lakes - whitefronted geese population
	18458			Barry		Coal Mine Lake - Prudhoe Bay supply line route
122	18574			Barry		Yaya Lakes - gravel supplies
	18658			Barry		Mildred Lake - foam coating of oil to deter birds from oil spill
	18693-94			Stein	COPE/ITC	Yaya, Great Bear Lakes - regulatory measures re game fishing
123	18775	Feb.12		Yates	MVPI	Campbell Lakes area - rock quarrying requests
	18794-95			Yates		Company application procedure re rock quarry utilization at Campbell Lakes
130	19756	Mar.16	YK	Hollingshead	CAGPL	Terrain crossed by route near Sitidgi Lake, Campbell Lake
131	19903-09	Mar.17		Williams	CAGPL	Snow harvesting from lakes for - snow roads; snow insulation of lakes to prevent deep freezing, Alaskan experiences; camp near Galbraith Lake, Alaska used snow fences to collect snow
132	20013-14	Mar.18		Williams		Snow harvest from lakes on Delta; fish use
133	20130	Mar.23		Rowe	CAGPL	Impact of cross-Delta route
134	20309	Mar.24		McCart	CAGPL	Yaya Lake, studies done for cross-Delta route
135	20479	Mar.25		McCart		Delta lakes needing fish studies
136	20699	Mar.26		Peet	MVPI	Report by W. Bond on Lac la Martre domestic fishery
	20766			Peet		Information on Great Slave fishery
149	22820-21	May 3		Simpson	NWT IB/MA	Creation of Lake Nasser, building of Aswan dam, Egypt
C-54	5637-38	May 17	EDM	Swift	Citizen	Oil from spill reaching Lake Athabasca
C-63	7062	June 1	MTL	Boucher	Citizen	Plans which were made by NAWAMP to bring Mackenzie river water to the south via Great Slave, Athabasca, South Indian and Winnipeg lakes, then to Great Lakes
C-68	7870	July 16	FP	T. Collinson	Citizen	Mills Lake area, cut-off of agricultural leases
C-69	7925	July 17	KL	H. Simba	Citizen	Tathlina Lake, previous home for some Kakisa Lake people
186	28912-20	Sept. 16	YK	Currie	COPE/ITC	Bras d'Or Lakes, Cape Breton - historical - oyster farming
	28934-35			Currie		Atikameg Lake, Alberta - trout fishing
193	30089-97	Oct. 5		Hernandez	EPB	Sitidgi Lake - aircraft flight corridors - routing should be north of line Sitidgi Lake to Reindeer Station May 15 - Oct. 15; Dolomite Lake - Campbell Lake Region - aircraft should avoid active eyries of raptorial birds March 1 - September 1, flight altitudes above 2000 feet; Yaya Lake recreational area should not be altered in favour of gravel removal activities; Dolomite Lake - Campbell Lake IBP site should be an inviolate ecological reserve; Peter Lake - fishing should be monitored

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193	30100-02	Oct. 5	YK	Hernandez	EPB	Brackett Lake - minimize air traffic May 15 - October 15, minimum altitude 2000 feet, construction monitoring; Nata Lake - fishing should be monitored	
194	30425	Oct. 6		Lipsett	MVPI	Parsons Lake, Campbell Lake, terrain type dictates elevated oil pipeline	
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VII	1930-44	Mar. 13	YK	Williams	CAGPL	Status of land crossed by route; Exhibits 73, 75; traps on that land; location of facilities	
44	5759-61	May 23		Horte	CAGPL	Easement, timberrights, long-term leases	
	5819-21			Bell	NWT IB/MA	Litigation on the ownership of the land in the N.W.T.	
C-5	354-357	May 28	Hay River	E. Dean	Citizen	Ownership, land claims settlement	
C-6	488-576	May 30		Lamallice	Citizen	Land claim settlement, traditional way of life	
C-7	603-672	June 24	F.F.	Naedzo	Citizen	Basis of native traditional way of life; food, living available from the land	
C-8	684-771	June 25		Touchou	Citizen	Dependence upon land, traditional way of life	
C-9	774-833	June 26		Tutcho	Citizen	Traditional way of life	
C-10	835-70		W.L.	Citizens		Discussion at hearings at Willow Lake; desire to maintain traditional ways	
	871-983	June 27	F.N.	Citizens		Maintenance of traditional lifestyles	
C-11	989-1065	July 8	F. McP.	Citizens		Community hearings, Fort McPherson	
C-12	1067	July 9		Bell	NWT IB/MA	Land use maps, research	
C-13	1150-1269	July 10		Citizens		Community hearings, Fort McPherson	
C-14	1270-1362	July 11	O.C.	Citizens		Community hearings, Old Crow	
C-15	1362-1476	July 12		Citizens		Community hearings, Old Crow	
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow	
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard	
	1715-65	July 17		Citizens		Community hearings, Fort Liard	
C-18	1766-1834	Aug. 5	FGH	Citizens		Native use and occupancy - Fort Good Hope	
C-19	1835-1908	Aug. 6		Citizens		Native use and occupancy - Fort Good Hope	
C-23	2335-37	Aug. 14	WH	R. McCandless	Citizen	5,000 square miles of Yukon leased to Western Minerals Inc.	
	2362			A. Cuvret	People's Land Committee	Concern re housing and available lots	
62	8823-29	Sept. 16	YK	Mirosh Bell	Foothills Foothills	Right-of-way; legal right; property tax; company ownership or lease of right-of-way	
68	10097	Sept. 24		Hushion	Foothills	Regardless of type of tenure, Foothills will maintain rehabilitation	
	10204			Templeton	EPB	Statutory requirements governing Canadian land	
70	10532	Sept. 26		Owen	MVPI	Construction under a lease re: Pointed Mountain; land use regulations	
81	12083	Nov. 5		Williams Minning	CAGPL CAGPL	Borrow sites on Commissioner's or Federal Crown land	
82	12223-35 12245-56	Nov. 6		Hemstock Hemstock	CAGPL	Easements; non-pipeline use of right of way Example of Pointed Mountain problems; regulatory responsibilities nature of easements	
99	15095	Dec. 9		Scott Hemstock Marshall	MVPI CAGPL	Archaeological excavation on and off right-of-way	
C-31	2978-79	Oct. 7	FR	Casoway	Citizen	Treaty - land agreement (historical)	
114	17282	Jan. 22	IN	Mainland	GPC-D-I	Taglu gas field, 1000 acres needed for development facilities	
	17312			Mainland		Taglu gas field, area required for facilities	
115	17489	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field tenure application says will investigate more fill deposits	

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115	17507-12	Jan. 23	YK	Faulkner	GPC-D-S	Niglintgak gas field, applied for tenure agreement, no construction beforehand but other work done; anticipated agreement date
143	21827	Apr. 14		Fumoleau	NWT IB/MA	Indian concept of land ownership
143-A	21877-78			Russell	NWT IB/MA	Type of land ownership after settlement
144	21883-94	Apr. 15		Sanders	NWT IB/MA	Colonial legal system; concepts of conquest, discovery, occupation; legal question of method of settlement in North America; native concepts of land ownership
	21895-902			Sanders		Revisions of English colonial law re concepts of land settlement; use of words "discovery", "conquest", question of survival of legal rights from the pre-contact period; Canadian law and customary marriages and adoptions; early recognition during times of conflict between colonial powers
	21903-11			Sanders		Conversion and creation, non-native interests in native land; Maori Land Court, New Zealand native land tenure system; Alaska land claims settlement
	21912-17			Sanders		New Zealand, New Guinea and Fiji institutions for establishing land titles
	21932-34			Sanders		Relationship of non-native land use, resolution of aboriginal title claims
	21943-48			Sanders		Systems of recognition and conversion of native title, New Zealand, New Guinea, Fiji
	21948-64			Sanders		Recognition and conversion of native title of hunting and gathering societies
	22057-59			Bean	NWT IB/MA	Property taxes, concept of private property not part of Dene culture
145	22118-33	Apr. 26		Clarke	NWT IB/MA	Brazil, importance of land to native people; encroachment on land by transnational corporations involved in resource extraction
	22180-89			Smith	NWT IB/MA	Land held communally by native people in Brazil
146	22234-35	Apr. 27		McCullum	NWT IB/MA	Comparison of takeover of land held by Indians and by white southerners
	22241-42			McCullum	NWT IB/MA	No treaties for aboriginal people in British Columbia; land claims of the Nishga people
	22266			McCullum		Large projects discussed on land still held under aboriginal title
	22291-302			Richardson	NWT IB/MA	Land claims settlement, James Bay; land categories in agreement
147	22354-55	Apr. 28		Page	NWT IB/MA	Transfer of sovereignty of the Northwest, 1870
	22376			Richardson		Opportunity to take possible future development land into public ownership
150	22859-66	May 4		Hills	NWT IB/MA	Relationship between metropolis frontier, opening of land; stages of contact; establishment of reserves
	22985-86			Bean	NWT IB/MA	Tax base of private property
151	23052-53	May 5		Irving	CYI	Prehistoric Kutchin people, important facilities held in trust by individuals
	23072			Irving		Tenure, inheritance of caribou fencing, corrals
C-50	5029-31	May 11	VAN	Hodgkinson	Citizen	Traditionally land division made for agricultural purposes, not possible in north
C-53	5473-80	May 14	CAL	Cudby	Citizen	Indian ownership of land is debatable
C-55	5824	May 18	EDM	H. Daniels	Citizen	Metis land questions
154	23583-84	June 29	YK	Watkins	NWT IB/MA	Mining corporations, need for land ownership
C-59	6578-89	May 26	TOR	L. Little Bear	Citizen	Native property, ownership concepts; Doctrine of Discovery, fee simple ownership; British property ideas, estate system; crown ownership
	6597-99			M. Nicholas	Citizen	Different ownership concepts, whites and natives

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C-60	6657-58	May 27		J. Barth	Citizen	Differing concepts of ownership, proper utilization
157	24002-09	July 5	YK	Thompson	NWT IB/MA	Ownership of natural resources, minerals; development rights to oil and gas, exploratory rights for hard minerals, mining lease; property rights; Indian Reserve lands in Canada
	24016-20			Thompson		Surface ownership of land, land use permits
	24049-56			Scott Thompson Bell	MVPI NWT IB/MA	Expropriation of land, rights of land owner
159	24355-56	July 7		Trusty	CAGPL	Federal government control of land, NWT
168	26067-68	July 22		Brody	COPE/ITC	Owners, subject to expropriation; ownership inadequate for preservation of traditional ways
183	28405-07	Sept. 10		Clarke	COPE/ITC	Concept of leasehold of land but freehold of buildings
184	28520-21	Sept. 14		Atcheson	COPE/ITC	Native concept of ownership
188	29197-200	Sept. 21		Neakok	COPE/ITC	Impact of Alaska's statehood on oil exploration; land leased by State to oil corporations for exploration; aboriginal title claimed, federal land title transfers; Alaska Native Land Claims Settlement Act
192	29961	Oct. 4		Baring-Gould Bennett	MVPI MVPI	Control over land by Valdez, expanded city limits
196	30854	Oct.12		Thompson	CARC	Political responsibility and legal jurisdiction over most of land by federal government; Commissioner's lands, equivalent of provincial crown lands; public lands owned by State of Alaska; legal right of native people to surface use of land

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XVII	1929-30	Mar.13	YK	Bell Williams	NWTIB/MA CAGPL	Importance in route selection; agricultural land
	1937			Bell		Potential conflicts along proposed route
	1997-98			Williams		Potential conflict with Great Bear Hydro Project
XXXIII	4283	Apr.21		Dau	CAGPL	Applicants inspection programs
XXXIX	5042	May 15		Dau		Location of wharves at non-community sites
	5068-79			Williams		Spoil mound from excavation place on the shore
41	5325-26	May 20		Lucas	CARC	Land use permits, territorial government
44	5741	May 23		Bell		Application for permit to conduct helicopter - supported pilot pipeline route selection survey
	5761-62			Horte	CAGPL	Total area to be required; looping
45	5881-82	May 24		Genest	CAGPL	Land use application for survey near Fort Good Hope, environmental inspectors
	5894-95			Bayly	COPE/ITC	Registered traplines, fishing spots
46	6099	June 2		Templeton	EPB	Response to land use regulations, need for planning
47	6192-93	June 3		McT-Cowan	EPB	Loss of critical sites small but unacceptable
	6227-36			Templeton		Need for management policies
	6279-80			Templeton		General plan necessary, will evolve with development
48	6318-24	June 4		Craik	EPB	Inadequate penalties for violation of regulation, examples
	6344-53			Templeton		Land Use Regulations re: seismic work
	6428-29			Templeton		Regulations and inspectors, time factor involved
C-4	255-258	May 28	Hay River	Neufeld	Citizen	Property available in Hay River; land on Indian reservation
C-5	423-424	May 29		Chase	Citizen	Land program, Hay River Correctional Centre
C-6	512-576	May 30		Nahanni	NWT IB/MA	Map of traplines in Hay River area
	580-595	May 31		Camsell	Citizen	Development of the land

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C-7	603-44	June 24	F.F.	Naedzo	Citizen	Living off the land; taught by the older generation
	645-52			Nahanni	NWT IB/MA	NWT IB/MA Land Use Research Program
	652-72			A.Dolphus	Citizen	Living off the land
C-8	684-771	June 25		Touchou	Citizen	Traditional way of life
C-9	774-833	June 26		Tutcho	Citizen	Seismic lines
C-10	835-70		W.L.	Citizens		Discussion at hearings at Willow Lake; desire to maintain traditional ways
	871-983	June 27	F.N.	Citizens		Land claim settlement, chance for native people to control the land
C-11	989-1065	July 8	F. McP.	Citizens		Community hearings, Fort McPherson
C-12	1067	July 9		Bell	NWT IB/MA	Land use maps, Indian Brotherhood
	1150-1269	July 10		Citizens		Community hearings, Fort McPherson
C-14	1270-1362	July 11	O.C.	Citizens		Community hearings, Old Crow
C-15	1362-1476	July 12		Citizens		Community hearings, Old Crow
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
	1715-65	July 17		Citizens		Community hearings, Fort Liard
56	7836-39	Aug. 18	YK	Horte	CAGPL	Areas of trap lines; location of parks and wild life sanctuaries
53	7267-83	Aug. 13	WH	Thompson Collins	CARC CARC	Arctic international wildlife range proposal
54	7461-7588	Aug. 14		Weedon	CARC	Potential development and land ownership in Alaska; plan for the gathering lines and pump stations for Prudhoe Bay, Kemik or Kavik fields; Fort Yukon Fairbanks corridors; Alyeska right-of-way; highway and access roads; pipeline facilities; land tenure; native land claims; water quality and use; El Paso; Pipeline facilities; route selection and location; Arctic National Wildlife Range
55	7620	Aug. 15		Hughes	CARC	Communities facilities re: roads; sewage systems; buildings; placer mining facilities re: man induced erosion and transportation of soils; railways, roads, airports and facilities
	7629			Morlan	CARC	Road way use; archaeological sites
C-18	1766-34	Aug. 5	FGH	Citizens		Traditional use; land use permits
C-19	1835-1908	Aug. 6		Citizens		Traditional use; land use permits
	1860-71			J. Louison	Citizen	Conflict between community & development projects
C-20	1933-35	Aug. 7		Carter	CAGPL	CAGPL to request land use permit for test drilling at mouth of Hare Indian River
	1957-62			J.T'Seleie	NWTIB/MA	Land use maps of Fort Good Hope area
	1964-89			A. Tobac	Citizen	Hunting, trapping & fishing areas used by Fort Good Hope people
C-21	2152-58	Aug. 9	NW	G. Loomis	Citizen	Shortage of lots in Norman Wells; leases
	2199			E.Delbroucke	Citizen	Problem when construction workers in town
C-22	2226	Aug. 11	WH	Berger		R.C.M.P. role to enforce law
C-23	2335-37	Aug. 14		R. McCandless	Citizen	Yukon land lease to Western Minerals Ltd., Calgary
	2362			A. Cuvret	People's Land Committee	Land development policies in Yukon
	2344-45			I. Warner	Citizen	Yukon Act; Mining Act
62	8786-h	Sept. 16	YK	Glockner	Foothills	Allowable pressure in pipe; allowable loop stress
	8791			Bauer	Foothills	Distance allowed between pipes
	8811-12			Mirosh	Foothills	Later corridor development necessitated the use of block valves
	8857-58			Mirosh		Requirement in the code re installation of block valves by AGTL; safety measures; gas control
	8886			Glockner	Foothills	Regulations re yield for loop stress
63	8978-84	Sept. 17		Lazerte	Foothills	Compressor station design and layout; roads and access; facilities

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76	11211-24	Oct.21	YK	Weeden Parker	CARC CARC	Native land claims; land use planning; Alaskan settlement; pipeline right-of-way; barge and wharf facilities; stock pile sites
	11241-47			Weeden Parker		Land freezing, Alaskan land claims; Alyeska route selection; alternate routes re Alaska
78	11498-504	Oct.23		Roed	CARC	Polar Gas Y pipeline route; transportation corridor
	11614-74			Minning	CAGPL	Reading of phase 2 evidence; land use requirements re right-of-way clearing, construction, operations, compressor stations, access roads; revegetation and rehabilitation programs; borrow requirements; temporary and permanent land requirements
79	11679-80	Nov.3		Harlan	CAGPL	Acreeage required for facilities and right-of-way
	11682-711			Minning		Volumes of borrow required
80	11848-55	Nov.4		Hemstock	CAGPL	Land and impact area of pipeline; sensitive terrain areas; wilderness; comparison of impacts of routes
	11876-77			Clark Minning	CAGPL	Land requirements for looping
81	12007-16	Nov.5		Hemstock		Implications of abandonment, looping, oil pipeline
	12016-21			Hemstock		Inclusion of indirect land use arising out of pipeline in acreage requirements
82	12185-86	Nov.6		Williams	CAGPL	Land use permits for right-of-way for roads
	12213-14			Hemstock		Agrees terrain damage should be minimized
	12224-34			Hemstock		Restrictions as to how the right of way can be used
	12245-56			Hemstock		Non-pipeline activities on pipeline land
83	12349	Nov.7	YK	Scott Hemstock	MVPI CAGPL	Conflict of borrow pits with other land uses
87	13090-92	Nov.14		Bayly Reeves Bouckhout	COPE/ITC Foothills Foothills	Potential stockpile sites often good campsites
88	13202	Nov.17		Ryder Bouckhout	MVPI	Conflicting uses; overlapping on non-project land
	13295-305			Bouckhout Taylor	Foothills	Aesthetics as guide to route location, local views; conflicts
95	14498-99	Dec.3		Banfield Berger	CAGPL	Regional plans, land use planning in Alaska, Scotland
97	14854-56	Dec.5		Scott		California preserved winter habitat of snow geese
98	14862	Dec.8		Marshall	CAGPL	Map of gas plant line, Parsons Lake
99	15053-104	Dec.9		Environmental Panel	CAGPL	Impact on wilderness areas; coastal versus interior route; wilderness maintenance; parks locations; Arctic Wildlife Range
101	15427-47	Dec.11		Peterson	CARC	Guideline No. 4, potential areas for avoidance; IBP sites; native use of IBP sites
102	15565-68	Dec.12		Peterson		Native use of IBP sites
	15697			Novakowski	CARC	Wildlife protection, gaps in legislation; change in use patterns required
108	16555-81	Jan. 13		Berger Environmental Panel	EPB	Regional land use planning, government; function, corridor concept - multi-use corridor; resource development; role of northern residents; research; wilderness concept; Canada Land Inventory; land claims
109	16583-89	Jan. 14	YK	Templeton McT-Cowan	EPB EPB	Land use planning; need for a land capability study; consideration of existing settlements and infrastructure; traditional activities; development permits; wildlife protection, unique environmental areas; IBP sites; archaeological sites; land claims
	16603			Templeton		Native land use; COPE maps
	16663-64			Templeton		Land use planning; wilderness areas, undisturbed areas
C-24	2409-11	Aug. 23	TL	Nahanni	NWT IB/MA	Land use maps, hunting and trapping areas
C-25	2510-11	Sept. 8	FS	Black	Citizen	Definite applicant land demands statements required
C-27	2765-66	Sept. 10		Hammond	Citizen	Scars of progress re: concrete, asphalt; result of service industries re: more land; recreation areas; urban sprawl; aesthetics

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63	8980	Sept. 17	YK	Lazerte	Foothills	Arrangement of equipment and buildings must meet all applicable codes
	9001			Beer	Foothills	Regulations exist in every province as to the duration of permissible exposure to noise from compressor stations
	9011-19			Lazerte		Additional land requirements for foundation pads if pipeline is looped; area required for construction crews at compressor sites
	9024			Mirosh	Foothills	Environmental impact of compressor site preparation for looping
	9034-35			Lazerte		Foothills compliance with Inland Waters Act re water sources
	9037			Lazerte	Foothills	Foothills compliance with fire regulations of NWT regarding water supply at compressor sites & camps
	9039-44			Lazerte		Public Health Ordinance; distance between sewage lagoons and camp
	9163			Hushion	Foothills	America and Canada minimum yield regulations
66	9688	Sept. 22		Genest	CAGPL	Resources requirements, borrow for backfill, pads, access roads, side slopes
	9836-37			Bayly	COPE/ITC	NWT Labour Ordinance
67	9865-69	Sept. 23		Jarvis Templeton	Foothills EPB	Shut off dates for snow roads; terrain degradation
	9872-75			Mirosh	Foothills	Company to prove case for land use before regulatory body
68	10043-45	Sept. 24		Hushion		Smaller scale of facilities for Foothills causes less impact; smaller borrow requirements, facilities; no airstrips required; acreage requirements less
	10087-92			Hushion		Foothills estimates of total acreage and land use weighed against CAGPL estimates
69	10445-48	Sept. 25		Owen	MVPI	Land use regulations; operations of permit holders
70	10508	Sept. 26		Owen		Exploration by seismic crews; damage and reparation; land use permits
	10509-16			Owen		Land use regulations; operations of seismic crews; borrow pits
	10514			Owen		Borrow pits; land use regulations; reparation of right-of-way, borrow excavation; seismic activities
	10539			Longlitz	MVPI	Land use regulations
	10557-63			Longlitz		Snow road use and winter construction operations; depth of frost penetration and snow cover; impact of extended construction
71	10601-11	Oct. 14		Templeton Longlitz	EPB MVPI	Snow road and ice bridge building; traffic on snow roads; impact environmental; regulations
	10612			Bayly Longlitz	COPE/ITC	DIAND regulations and codes; construction permits; inspection and monitoring of projects, specific sections of land use regulations; construction spreads and scheduling; withdrawal of a construction permit; work stopages; reports; bonding and security deposits; non-land use operations; expansion of land use permit systems; community input into approval of land use permits; impact environmental
72	10692-711	Oct. 15		Bayly		Land use permits; Federal Territorial Regional Planning Authority; land use regulation; land use application procedures
	10712-15			Bell Longlitz	NWTIB/MM	Land tenure agreements; enforcement of conditions; surface rights to land; pipeline right-of-way control
	10736-41			Goudge Longlitz	MVPI	Land use regulations; leased, sold and commissioner's lands not covered by regulations; block land transfers; land under territorial government administration; community land tenure
75	11038-A	Oct. 20		Weeden	CARC	Reports, Bureau of Land Management Environmental Impact Statement
	11057			Weeden		Pipeline route near the community of Kaktovik; community participation; land use planning
	11060			Weeden		No comprehensive land use plan for gathering lines and pump stations for Prudhoe Bay, Kemik or Kavik fields; North Slope Borough, Alaska Division of Lands; regional plans
	11073-75			Weeden		Prime route commits land uses in absence of comprehensive statewide or regional plan; Alaskan agencies involved in planning

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C-30	2902-04	Oct. 6	PP	McConnell Osing	Citizen Citizen	Land concession, housing - native people
C-32	3063	Oct. 8	FR	McConnell	Citizen	Whites buried in cemetery
C-36	3483-90	Jan. 28	In.	B. Allen	Citizen	Need for land claim settlement to enact planned, controlled land use; Regional Planning Committee re: community planning; camp site location
	3524-27	Jan. 29		Sineok	Citizen	Native land ownership re: hunting, trapping; government protective legislation, funding to hunters, trappers
C-39	3756	Feb.18		Usher	COPE/ITC	Map series of hunting, fishing and trapping ; land use by species and time period
112	17072	Jan.20		Ballem	GPC-D	Filing Shell supporting documentation for land tenure agreement application with DIAND
	17085			Bayly	COPE/ITC	Taglu gas development volume, "Information is support of land tenure agreement application", cutting trees for pilings, Delta area
	17095-97			Bliss	GPC-D	Use of IBP sites, Campbell Lake, Caribou Hills, Eskimo Fingers Liverpool Bay
114	17318 -21	Jan.22		Mainland	GPC-D-I	Taglu gas field, land requirements
	17341-42			Mainland		Land use permit applied for Taglu borrow material mining and surveying before approval of project
	17428-29			Faulkner	GPC-D-S	Niglintgak gas field, land requirements
115	17504-06	Jan.23		Faulkner		Niglintgak gas field, getting land use permit; dismantling of facilities after abandonment
116	17617-19	Jan.24		Stamberg	GPC-D-G	Land use permit for back-filling sumps, amount of gravel needed; mud system disposed in sub-surface formation; Caribou Hills gravel sources
118	18008-09	Jan.27		Motyka	GPC-D-G	Application for land use approval, possibilities of plant and facilities
123	18735-51	Feb.12		Yates Elkin	MVPI MVPI	Definition of regional planning approach employed in delta by Federal and NWT Governments
	18774-85			Yates Elkin		Regional planning - community input towards land use plans for delta
	18825-26			Yates Elkin		Definition of areas considered in delta regional plan
134	20261	Mar. 24	YK	Webb	CAGFL	Operating conditions of land use permit
135	20411	Mar. 25		Bayly	COPE/ITC	Relevance of Usher evidence on native land use
	20434-35			Jakimchuk	CAGFL	Studies of traditionally used areas of cross-Delta route
	20534-44			Hemstock	CAGFL	Cross-Delta route crosses areas used by Delta communities for hunting, trapping
	20554-59			Hemstock		Native use of Delta for hunting, trapping
138	20985-86	Apr. 6		Bell	NWT IB/MA	Fish and Wildlife Service records, land use, resource harvesting by native people
140	21345	Apr. 8		Usher	COPE/ITC	Communities never provided with complete information regarding land use applications
	21392-409			Noble	COPE/ITC	Summary - evolution of regional planning, associated committee formation; Regional Planning Committee failure to represent native community interests; terms of reference
147	22477-485 22492-504	Apr. 28		Nahanni Nahanni	NWT IB/MA	Traditional land use, Dene people Land Use and Occupancy Research, study done on traditional and present land use, N.W.T., hunting, trapping

LAND - USE (continued)

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147	22518-522	Apr. 28	YK	Nahanni	NWT IB/MA	Land Use and Occupancy Research, to demonstrate Dene present extensive use of land
	22533-36			Pellissey	NWT IB/MA	Hunting, trapping, traditional land use
148	22580-81	Apr. 29		Nahanni		Reason for the research, to show extent of land used by Dene for the purpose of land claims
	22616-17			Nahanni		N.W.T. Dene Land Use map, to provide a record of hunting and trapping routes, for land claim purposes
	22632-69			Rushforth	NWT IB/MA	Report on "Recent Land Use by the Great Bear Lake Indians", a document on land use
	22645-48			Rushforth		Traditional land use activities of Bear Lake people, no overall decrease
	22663			Rushforth		Contact with dominant white society made it more difficult for Bear Lake people to live off the land
149	22748-49	May 3		Ritter	NWT IB/MA	Place name study in Yukon, N.W.T. backs up evidence provided by land use studies
	22774			Ritter		Large number of place names, Peel River country, reveals intensive land use patterns
	22787-90			Ritter		Place name study, collective land use through time
151	23049-52	May 5		Irving	CYI	Prehistoric Kutchin, patterns before fur trade, early fur trade period
C-40	3817-19	Feb. 23	AK	Usher	COPE/ITC	Inuit land use and occupancy project, maps of traditional areas of hunting, trapping, fishing
	3846-48			Bell Greenland	NWT IB/MA Citizen	Maps of traditional hunting, trapping, fishing areas
C-42	4041	Mar. 4	SACHS	F. Carpenter	Citizen	Looking after the land on Banks Island
C-44	4223-24	Mar. 8	TUK	Potlak	Citizen	Land use permits; companies uninformed about layout of land, use of land; Land Use Committee formed, studying permits
	4304-12	Mar. 9		Lemeur	Citizen	Traditional land use, importance, dependence; hunting restrictions, land claims, way of life being changed
C-47	4614-16	Mar. 13	ARR	R. Andre N. Andre	Citizen Citizen	Map of travelling routes and traplines
C-50	5074-75	May 11	Van	Antoine	NWT IB/MA	Permission for land use given by Territorial government, instead it should be from natives
C-52	5404-05	May 13	CAL	J. Ryan	Citizen	Tribal groups, use rather than ownership
C-57	6163-64	May 20	WINN	K. Johnson	Citizen	Plans for development and preservation
	6188			A. Lansdown	Citizen	Land use plan completed before pipeline development
155	23684	June 30	YK	Watkins	NWT IB/MA	Use and occupancy, intent of study headed by Nahanni
	23714-16			Puxley	NWT IB/MA	Land use maps, NWT IB/MA
C-66	7610-11	June 7	CH	Boyd M.	Citizen	P.E.I., land sales to non-residents, desire to maintain land for agriculture; Land Use Commission
C-67		June 8	HAL	G. Nicholas	Citizen	Indian reserves, use and value
159	24355-56	July 7	YK	Trusty	CAGPL	Government control, Area Development Ordinance
	24437-40			Boorkman	CAGPL	Development of land banks; land planning in Alaska
	24490-91			Boorkman		Alaska, squatting on land
	24614-19			Trusty		Amount of planning, preparation; Comparison with Alaskan situation
162	25088-89	July 13		Trusty		Need for government regulations, land use regulations and residency qualifications
163	25234-40	July 14		Trusty		Regulations, possible effect on population in-migration
166	25754-56	July 20	YK	Ellwood	Foothills	Use of local government serviced land for housing
	25807			Brody	COPE/ITC	Land use maps, Western Arctic
	25824-39			Usher	COPE/ITC	Land use and occupancy report done for Inuit Tapirisat

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167	25877-80	July 21	YK	Brody	COPE/ITC	Inuit opinions; Inuit Land Use and Occupancy Project, discussions in communities	
168	26092-93	July 22		Usher	COPE/ITC	Problems with need for large bureaucracy due to large territory	
C-68	7888-95	July 16	FP	J. Thom	Citizen	Land use research map, trappers in Fort Providence, Kakisa	
179	27752-53	Aug. 27	YK	Runge	MVPI	Land assembly for housing	
182	28396	Sept. 9		Clarke	COPE/ITC	Provision of money for land development; availability of serviced land, crucial to housing supply	
183	28407-08	Sept. 10		Clarke	COPE/ITC	Municipal control, restrict corporation creation of artificial demand to raise prices	
189	29321	Sept. 22		Hill	NWT/AM	Responsibility of land use permits to community councils or hunters and trappers associations	
	29347-48			Hill		Land use permits, settlement does not have same authority as city	
190	29576-84	Sept. 23		Ganske	NWT/AM	Town Planning and Lands Division of Territorial government; "Block Land Transfers"; "Commissioner's Land"; Municipal Land Policy, disposal of public lands; planning programs for Delta communities	
	29620-25			Feilden	NWT/AM	Inuvik, single family subdivision built; plans to expand to meet development; problems faced when building on Inuvik's permafrost	
	29641-55			Taylor	NWT/AM	Hay River land development, servicing of lands provided by Town; Hay River Industrial Development Study, land use control; housing development; commercial facilities and land; central business district; highway commercial development; Vale Island commercial development	
193	30088-89	Oct. 5		Hernandez	EPB	Develop plan which accommodates, protects native use of environment	
	30187-97			Templeton	EPB	Land use plan - zoning of hunting, trapping, a zoning authority, transportation corridor concept, land freeze zone, Mackenzie Delta Zone	
	30206-26			Templeton Bayly	EPB COPE/ITC	Initial land use plan should be undertaken by government, public input to plan; employment of corridor concept, land freeze in Mackenzie Valley; definition of municipal boundaries, tax revenue benefits	
	30247-48			Templeton		Land claims should be settled prior to formation of zoning authority, final project approval; land freeze measures	
196	30860	Oct.12		Thompson	CARC	Land use planning commission advocated by Beauchamp in "Land Management in the Canadian North" and "Land Use and Public Policy in Northern Canada" by Naysmith	
199	31512-24	Oct.15		Beakhust	COPE	Territorial Land Use Regulations; "Land Regulation in the Canadian North" by Usher and Beakhust; amendments to Land Use Regulations; Land Use Advisory Committee; Delta Land Use Committee; land use inspectors and reports, problems; role of DIAND in administration and enforcement of regulations; land use permits	
201	31835-38	Nov.16		Templeton		Merits of a land use plan for Western Arctic; pipeline route	
202	31887-98A	Nov.17		Bayly		Inuvialuit proposals, land selection for traditional activities, parks; land use planning commission; Territorial Land Use Regulations	
203	32106-09	Nov.18		Anthony	CARC	Long-range land use planning needed in North; importance of planning process; identification of special areas; wilderness concept	
204	32321-22	Nov.19		Parker	NWT Govt	Involvement of communities in land use	

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C-I	16	Apr. 2	Aklavik	Furlong	Citizen	Not enough police in N.W.T.	
C-II	70	Apr. 3		Sittichinli	Citizen	R.C.M.P. arrival during whaling days	
C-5	424-427	May 29	Hay River	Chase	Citizen	Hay River Correctional Centre	
C-13	1253A-53B	July 10	F. McP.	J. Charlie	Citizen	R.C.M.P.; underage drinking	

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C-14	1339	July 11	O.C.	Mrs. P. Charlie	Citizen	R.C.M.P. stopped trapping on Old Crow Flats by white men
C-15	1441-46	July 12		B. Allen	Citizen	People from construction camps should not come to Old Crow
C-16	1564	July 13		C. Blake	Citizen	Old Crow will need more R.C.M.P. officers
53	7194-08	Aug. 13	WI	Sprecker	CYI	Increase in crime and accidents since Alyeska
	7213-22			Sprecker		Increase in numbers of crimes, police in Alaska
	7226-39			Sprecker		Regulations governing residency
	7240-45			Sprecker		Alyeska's in-house policing
75	11106	Oct. 20	YK	Weedon	CARC	Alcohol, riots, drugs and firearms in camps, Alaska
76	11190-92	Oct. 21		Weedon		Hunting restrictions, control of hunting; responsibilities of the company to impose restrictions on its operators
96	14685	Dec. 4		Jakimchuk	CAGPL	Enforcement of Fish and Game regulations, need for increased police protection; recouping of costs for increased social services
106	16275-76	Dec. 18		Lent	CARC	Regulating access to caribou herds; Alyeska experiences
C-39	3742	Feb. 18	IN	English	Citizen	Increase in crime rate re: impact of pipeline construction at Fairbanks
	3752			Berger		Crime increase controlled by police
				Klassen	Citizen	Anchorage, Alaska Police Force; Fairbanks Police Force, impact of pipeline
146	22337	Apr. 27	YK	Page	NWT IB/MA	Mounties involved in incident, Chief Prapot's Coes and the building of the C.P.R.
150	22860	May 4		Hills	NWT IB/MA	Military presence in early stages of colonization
151	23112	May 5		Cruikshank	CYI	Problems with control of civilian camps, construction of Alaska highway
	23116-20			Cruikshank		Increased liquor - related offences, Alaska highway
	23132-36			Cruikshank		Beginning of Alaska highway construction, additional police recruited; problems with policing civilian camps
	23154-55			Jacquot	CYI	Game violations, Kluane Game Sanctuary
C-50	5049-50	May 11	VAN	Giovanna	Citizen	Lower Mainland Regional Correctional Centre, BC, 45% inmates are natives
C-51	5184-85	May 12	VAN	P. Chataway	Citizen	Pipeline vandalism, Alaska; organized crime
C-53	5460-61	May 14	CAL	Donovan	Citizen	Turning a blind eye to workers walking off with construction materials, Alaska, to prevent strikes or worker alienation
C-55	5827	May 18	EDM	H. Daniels	Citizen	Percentage of native people, prison populations
159	24318-20	July 7	YK	Boorkman	CAGPL	Alaska, areas of responsibility of State Troopers; statistics on offences committed, numbers of complaints filed
	24366-72			Boorkman		Difficulty in keeping officers, loss to Alyeska pipeline; private enforcement, pipeline camps; Alaska Law Enforcement Assistance Administration
	24377-80			Boorkman		Impact of Alyeska on police forces, Alaska; loss of labour; financing of police services
	24493-95			Boorkman		Increase in crime does match increase in population, Alaska
162	24992-93	July 13		Williams	CAGPL	Security force; construction spreads
	25071			Trusty	CAGPL	Camp facilities, security personnel
163	25150-60	July 14		Hobart	CAGPL	Mackenzie Valley communities, increases in liquor consumption, increased rates of law violations
	25235-40			Trusty		Enforcement of land use regulations
165	225514-15	July 19		Ellwood	FOOTHILLS	Under public control; accessibility and facilities available to RCMP
166	25725-28	July 20		Ellwood		Offences will be dealt with by RCMP, question as to size of police force
	25740-42			Ellwood		Bouncers will be used to deal with trouble makers in taverns, not RCMP

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168	26156-60	July 22	YK	Brody	COPE/ITC	Increase due to drinking; Arctic Bay, Pond Inlet, increase in reported disturbances
	26186-89			Brody		Convictions in magistrate's court, offences involving liquor
171	26654-58	Aug. 17		Dixon	MVPI	Alaska, problem of under-cover force in small community, problem of organized crime taking over as a result of crack down on street crime, problem of officer pay scales
173	26998-99	Aug. 19		Dusel	NWT/AM	Inuvik, police protection (R.C.M.P. and Municipal By-Law Enforcement Officers), fire protection
	27011			Dusel		Fort Simpson, present police and fire protection
	27025			Dusel		Hay River, existing protection demands will increase with population expansion
177	27521-30	Aug. 25		Schaverte	NWT/AM	Officiality, lack of manpower, recruitment of officers, no protection of officers; RCMP aid, possibility of local officers trained by RCMP, local dependence
	27531-41			Purdy	NWT/AM	Reduced scope of RCMP role, problems; desire more official and non-police functions by the RCMP
	27543			Purdy		Rotation of RCMP in communities reduces non-police duties, commitment to community
	27546-49			Schaverte Purdy		Destruction of dogs; training problems, local officers, RCMP aid with mental patients, policing of camps
	27550-54			Purdy		Expanded role of RCMP, longer stay in community
	27562-72			Purdy		Need for territory police if RCMP restrict duties, training of local officers, monitoring, amount of officers needed
180	27986-89	Sept. 7		Nessel Dyck Whiteford	MVPI MVPI MVPI	RCMP search for drugs in construction camps, with a warrant
181	28081-82	Sept. 8		LeClair	MVPI	Use of regional peace officers to patrol camps, RCMP
	28189-90			McRae	MVPI	Shortages due to population influx, police, magistrates, jails; increased costs should not be passed onto residents
182	28252	Sept. 9		Forth	MHA/NWT	Recommended that RCMP maintain order within and outside camps
	28329-30			Forth		Enforcement in construction camps by RCMP; peace officers under unions' direction, training; local control within communities
	28346-47			Clayton	MHA/NWT	Juvenile Delinquent's Act, community participation in correctional services for the young offenders
187	29023-27	Sept. 17		Bruce	COPE	Enforcing Liquor Ordinance in licenced premises; penalizing bootleggers; increased enforcement of Liquor Ordinance during pipeline construction, planning for enforcement services
189	29421	Sept. 22		Robertson	NWT/AM	Planning for increased policing in Inuvik by RCMP; patrolling Dempster Highway from Inuvik
201	31864	Nov.16		MacQuarrie	MHA/NWT	RCMP should be responsible for security, law enforcement within and outside camps
202	31937-38	Nov.17		Bayly	COPE/ITC	Community legal centre, assessment of law enforcement needs
204	32324-25	Nov.19		Parker	NWT Govt	Study to codify traditional law; juvenile facilities and training programs; permanent parole services

LEGENDS AND STORIES

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47	6248	June 3	YK	Goudreau	EPB	Reference to environment
C-I	5-9	Apr.2	Aklavik	Headpoint	Citizen	Life story of witness
	18-19			Carmichael	Citizen	Life story of witness
	57-60			Headpoint		Life story of witness; legend about a big flood
C-III	166-67	Apr.4		T. Gordon	Citizen	Life story of Thea Gordon

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C-7	638-44	June 24	F.F.	Naedzo	Citizen	Style of life before arrival of white man; government
C-8	707-17	June 25		C.Nielly	Citizen	Life story of C. Nielly
C-9	1012	July 8		J. Thompson	Citizen	Native legend about the arrival of white people
C-13	1213	July 10	F. McP.	R. Carroll	Citizen	Loucheux names given to locations by native people
C-16	1596-97	July 13	O.C.	B. Sharpe	Citizen	Local legends, stories used to help teach Loucheux language;
C-19	1845-49	Aug. 6	FGH	S. Gully	Citizen	First encounters between natives and whitemen; canoe building
	1875-76			Fr.Labatt	Citizen	Trubute to the spirit of the lake
C-26	2711-12	Sept. 9	FS	Lamothe	Citizen	Poem re: people of paper
149	22763-64	May 3	YK	Ritter	NWT IB/MA	Place names among Kutchin people associated with mythological events
C-41	4006-10	Mar. 3	HOL	Kitologitak	Citizen	Stories of old-time livelihood; story of Migok and the testicle
C-42	4035-37	Mar. 4	SACHS	Tiktalik	Citizen	How she escaped from the polar bears
C-44	4173-75	Mar. 8	TUK	Wolkie	Citizen	How he and Raddi Kossak drifted out into the ice, trapping ookpiks
C-64	7208	June 3	OTT	Hatton	Citizen	"The Legend of the Raven"
C-68	7899-03	July 16	FP	M.Landry	Citizen	Life story of witness; style of life in previous years

LEGISLATION

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XVIII	2113	Mar. 14	YK	Dau	CAGPL	Codes re: pipe wall thickness, distance of line from communities
XXIV	2833-34	Apr. 7		Hardy	CAGPL	Restrictions on when to work at river crossings
XXV	3079-80	Apr. 8		Cooper	CAGPL	Environmental impact statement
XXVI	3126	Apr. 9		Scott	MVPI	Laws re fill in Fraser
XXX	3735-37	Apr. 15		Purcell	CAGPL	Air and noise
	3748			McMullen	CAGPL	Dept. of Communications
	3789			Gibbs Purcell	Foothills	Regulatory, design of gas plant
XXXI	3918-22	Apr. 16		Purcell		Canada/United States code for pipeline wall thickness
	3925-27			Holmberg	CAGPL	Test pressure, 125 per cent above design on operating pressure
	3928			Koskimaki	CAGPL	Test pressure, 125 per cent above design operating pressure
	3947			King	CAGPL	Clean Air Act
	3965			Reid	CAGPL	Code limit, testing with air or gas
XXXII	4040	Apr. 18		Koskimaki		Government regulation - fence around compressors
	4066					50 dba. noise level limit set
	4135					Ground level concentrations - Federal Clean Air Act
	4141-43					CAGPL to meet maximum allowable concentrations
XXXIII	4236	Apr. 21		Dau		Regulatory approvals for application effect scheduling
	4337			Dau		Regulations of Surveyor - General of Canada
XXXIV	4541			O'Rourke		Length restrictions on truck loads, Dempster Highway
XXXVII	4765-73	May 13		Bayly	COPE/ITC	N.W.T. Labour Standards Ordinance
	4807			Genest	CAGPL	Regulations on airlines, Air Transport Board
XXXVIII	4850	May 14		Lucas	CARC	DPW, permits, wharf construction
	4865			Dau		Permits to build river crossings
	4871-77			Lucas		Regulatory approvals, certificate of public convenience and necessity
	4921-22			Lucas		Territorial Land Use Regulations
	4929			Lucas	CARC	DIAND, Right-of-Way permit
XXXIX	5174-77	May 15		Harlan	CAGPL	Regulatory approvals - lead time after obtaining it
40	5215	May 16		Hurd	CAGPL	Requirements of Ministry of Transport for operation under instrument flight rules

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41	5325-28		May 20	YK	Lucas	CARC	Land use permits, territorial government
42	5571		May 21		Genest	CAGPL	New application for additional ROW, looping
44	5748-56		May 23		Bell	NWT IB/MA	Violations of Environment Protection legislation
	5787-89				Bell		N.W.T. and Yukon Water Boards
45	5934-37		May 24		Horte	CAGPL	Authority of N.E.B.
46	6033-38		June 2		Templeton	EPB	Regulatory agency
47	6259-62		June 3		Goudreau	EPB	James Bay land agreement with Quebec government
48	6315-27		June 4		Craik	EPB	Acts and ordinances pertaining to environmental protection
	6344-45				Templeton		Land Use Regulations re: seismic work
	6357-66				Craik		Formation of environmental code for pipeline project
49	6597-98		June 5		Horte	CAGPL	Canada/U.S. treaty negotiations
C-I	23		Apr. 2	Aklavik	Elanik	Citizen	Application for land use permit received late
C-13	1241-42		July 10	F. McP.	J. Charlie	Citizen	Game regulations
C-14	1303-30				W. Smith	Citizen	British North America Act Order-in-Council, Transfer of Land to Canada Royal Proclamation of 1763 Act for Regulating the Fur Trade, George IVc, 66 (1821)
56	7804-07 7834-35		Aug. 18	YK	Horte Horte	CAGPL CAGPL	Acquisition of regulatory approvals; re-scheduling Prices set by Federal Power Commission
58	8170-		Aug. 20		Blair	Foothills	Hunting and firearm regulations in construction camps; safety factors
53A	7314-20		Aug. 13	WH	Thompson Leonard	CARC CARC	Regulating land use - Wildlife Range
67	9859-60 9872-75		Sept.23	YK	Jarvis Templeton	Foothills EPB	Melt-out of ice bridges under land use regulations Onus of proof on applicants to gain regulatory approval
	10063-64				Hushion	Foothills	Need to learn local ordinances in setting up district headquarters
68	10144		Sept.24		Williams	CAGPL	Specifications given to contractors re land use regulations
	10188				Templeton	EPB	Enforcement of compliance by companies with land use regulations
	10209-13				Templeton		Laws governing pipelines: provincial & federal regulations & codes
	10223-28				Templeton		Drafting of code for pipeline
69	10445-53		Sept.25		Owen	MVPI	Land use regulations; operations of permit holders; Pointed Mountain pipeline
	10554-61				Owen		Land use permits; obtaining permits re: operation and maintenance, erosion and drainage control, slope stability
	10478-79				Owen		Land use permits; specification of borrow pit site and use
	10526				Owen		Beaver River - Fort Nelson Line; pipe exposure, misplaced breakers; land use regulations
	10532				Owen		Land use regulations re: Pointed Mountain
	10540-1				Longlitz	MVPI	Land use permits; re: construction and use of snow roads; bush clearing; stream crossings; winter operations
70	10554		Sept.26		Longlitz		Land use regulations, Section 33 of Fisheries Act
71	10601-05		Oct.14		Templeton Longlitz		Land use regulations; terms and conditions imposed on a pipeline company; code regulations, snow road construction; traffic on a snow road

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71	10612-88	Oct.14	YK	Bayly Longlitz	COPE/ITC MVPI	Land use regulations, inspections and monitoring of construction and clean-up; withdrawal of permits; specific land use regulations cited - 32.1 re: land use inspectors powers; - 24 re: reports to be submitted on completion of an operation; -34 re: completion dates and monitoring schedules; community input, - 31 re: bonding and security deposits; - 26 re: bond forfeited; -25.5 re: holding and refunding of deposits; -31 re: default of an operator; -7 re: water crossings; - Schedule C re: permit form; -3 re: description of proposed method and technique; non-land use operation; expansion of land use permit system; -21 re: land use permit, engineering aspects; -21.1.A to K; - 7 re: contact with Fisheries Department and jurisdiction over water crossing and fish; standard clauses re: garbage control; equipment type; issue of permits - water use, fisheries permits; section 33 of the Fisheries Act; Canadian Wildlife Service re: bird sanctuary permits; prosecution under the Territorial Lands Act; inspection; contact with other departments; community input
72	10692-711	Oct.15		Bayly Longlitz		Land use regulations re: application procedures; training programs for land use officers; hiring procedures; Section 19, 19-3 re: inspector makes an inspection under subsection 1 reports on ecological balance and physiographic features
	10712-15			Bell Longlitz	NWTIB/MA	Section 3 re: surface rights, land tenure agreements; pipeline right-of-way
	10736-41			Goudge Longlitz	MVPI	Revision of land use regulations; leased lands, sold lands, Commissioner's lands not covered by regulations; block land transfers
75	11032	Oct.20		Parker	CARC	Alaska haul road constructed to the State of Alaska and United States secondary highway standards
	11055	Oct.20		Weeden	CARC	Definition of a wilderness area; United States legislation; Arctic National Wildlife Range
76	11214-23	Oct.21		Parker Weeden	CARC	Native Land Claim Settlement; State Land Act re: federal lands; state lands, native lands; Congressional Acts, Mineral and Mining Patenting process, Homesteading Act, National Environmental Protection Act
	11232-47			Parker Weeden		Alaska employment policies, employment compensation Alaskan residence regulations; D.L.M. regulations;
	11264-98			Weeden Parker		Wilderness Preservation Act; Arctic National Wildlife Range; allowable land uses, powers of Congress re: allowable land uses and activities; Mineral Leasing Act Amendment of 1973; conflicting pieces of legislation
78	11644-46	Oct.23		Minning	CAGPL	Governmental regulations and guidelines re: water supply development, waste disposal
	11667-69			Minning		Federal Ambient Air Quality Objectives, Clean Air Act R.S.C., 1970
81	11998	Nov.5		Hemstock	CAGPL	Regulations on refuelling part of land use regulations
82	12225-34 12250-56	Nov.6		Marshall Marshall	CAGPL	NEB regulations re: land use of right-of-way Remedies the holder of an easement has in cases of trespass and damage
83	12472-73	Nov.7		Scott McCart	MVPI CAGPL	Fisheries Act re: river-bed borrow operations
84	12550	Nov.8		Hemstock		Land use regulations re: ice bridges, CAGPL will follow
85	12724-25	Nov.12		Scott Williams	CAGPL	Territorial Waters Act regulates water crossings
85-A	12793-94	Nov.12		Marshall Hemstock	CAGPL CAGPL	Clean Air Act and Federal Air Quality Standards, nitrogen dioxide levels, compressors
86	12874-79	Nov.13		Lawrence	Foothills	EPS guidelines, other acts, regulations, water supply, disposal
89	13569-70	Nov.18		Dabbs	CAGPL	Seed licensing, testing, Canada Seed Act
90	13661	Nov.19		Banfield	CAGPL	Impact of several corridor projects, American National Environmental Policy Act

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90	13719	Nov. 19	YK	Bayly	COPE/ITC	Canada Seed Act, approval of revegetation varieties
93	14152-56	Dec. 1		Hemstock Gunn	CAGPL	Recommendation re: landing and wharf facilities, sites to be used; critical environmental areas to be avoided by barges
95	14364-70 14373-83	Dec. 3		Jakimchuk Berger Banfield	CAGPL	Alaska gun laws; civil liberties; hunting regulations; access National Environmental Policy Act (Section 102); Council on Environmental Quality in the U.S.; Environmental Protection Agency; Environmental Assessment Act of Ontario
99	15079-80	Dec. 9		Banfield		National Wildlife Refuge System Administration Act
101	15425-26 15431 15509-16	Dec. 11		Peterson Peterson Peterson Berger	CARC	Existing environmental protection legislation Canada Wildlife Act, proposed Dolomite/Campbell Lakes IBP site Pipeline guidelines do not replace any legislation
102	15570-79 15591-605 15633 15658-59 15676-78 15682-83 15688-89 15696 15697-98	Dec. 12		Peterson Peterson Novakowski Novakowski Novakowski Novakowski Novakowski Novakowski	CARC CARC	U.S. National Environmental Policy Act; effectiveness of legislation Legislation required to create IBP sites; British Columbia ecological reserves legislation Endangered species, sections 9 and 13(b) Canada Wildlife Act Canadian Wildlife Act, Territorial Act, Territorial Lands Act, Territorial Ordinance, Convention on International Trade in Endangered Species of Wild Fauna and Flora Grizzly bear classification under Convention on International Trade in Endangered Species Bounty on wolves Territorial Act Statutes, land withdrawal for IBP sites Bounty system for wolves Wildlife protection, gaps in legislation
103	15731 15794-97	Dec. 15		Stein Millen	CARC CARC	Fisheries Regulations, licences; enforcement Fisheries Act in Yukon Territory & N.W.T. re: fish protection: need for a review, enforcement authority
105	15989-91 16023 16090-91 16120-22	Dec. 17		Stein Steigenberger Stein Millen	CARC CARC CARC	Fisheries regulations, problem of denying fishing licences, enforcement of fishing ban Acts in the Territories, Fisheries Acts, Inland Waters and Navigation Act, Prevention of Pollution in the Arctic Sea Changes re: conflict between sport, commercial and domestic fisheries Enforcement of terms and conditions re: existing law, Fisheries Act, and new single authority - harmonized
106	16181 16184-87 16225-26 16249-64	Dec. 18		Lent Berger Calef Lent	CARC CARC	Protected status re: Arctic National Wildlife Range, wilderness designation Protected status re: Arctic National Wildlife Range, wilderness designation; Alaska Native Claims Settlement Act Wilderness Act re: protection of Arctic Wildlife Range U.S. Fish and Wildlife Service re: legislated to study wilderness status of Arctic National Wildlife Range, make proposals; Porcupine and Arctic caribou re: hunting and selling of meat
107	16384-88	Jan. 12		Berger Craik	EPB	Existing environmental legislation - 40-odd Federal acts; Fisheries Act, the Canada Waters Act; bringing together of existing legislation; Prairie Farm Rehabilitation Act
110	16772-73	Jan. 15		Lent		Wilderness Act of the U.S. Congress, definition of wilderness

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111	16950-51	Jan. 16	YK	Lent	CARC	Enforcement of wildlife protection in Alaska
C-28	2780-83	Sept. 10	Wr	H. Hardisty	Citizen	Dispute between Wrigley and Cominco re: land use permit
	2803			G. Hardisty	Citizen	Fishing licences re: product of white influence
	2807			Antoine	Citizen	Dene Declaration of Independence; Territorial Act
C-31	2999-3000	Oct. 7	FR	Morin	Citizen	Home ownership in NWT
C-32	3070-71	Oct. 8	FR	M. Beaulieu	Citizen	Pine Point Mines licence for pit de-watering
	3080-81			Balsille	Citizen	Big game licence re: southern hunters in north
C-33	3159	Oct. 9	FS	Mercredi	Citizen	Migratory Birds Treaty
C-34	3306-07	Oct. 15	YK	Aylogt Berger	Citizen	Treaty between Canada and United States re: use of gas, safe passage of gas within countries
C-35	3404	Oct. 22	LI	Hasen	Citizen	Natives' failure to understand or respect rule of law
C-36	3526	Jan. 29	IN	Sineok	Citizen	To protect, enhance hunting and gathering, to discourage the import of cultured furs, manufacture of synthetics
	3538-39			Sineok		Family financial administrators, educational probation
C-38	3689	Feb.15		McNeely	Citizen	Legislated settlement to pipeline construction
C-39	3704	Feb.18		Robertson	Citizen	Within Bill of Rights, restriction of nightly visits to Inuvik by workers
114	17346-51	Jan.22		Bayly Mainland	COPE/ITC GPC-D-I	Application for permit to stockpile gravel in early 1976, Yaya Lake; permit application for rip rap from Campbell Lake quarry
115	17504-05	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, obtaining land use permit
116	17617-19	Jan.24		Stamberg	GPC-D-G	Land use permit for back-filling sumps, application; drilling permit leases in Caribou Hills
	17625-26			Stamberg		Safety standards, size of equipment, requirements for local movement of construction goods
118	18008-09	Jan.27		Motyka	GPC-D-G	Application for land use approval, possibilities for plant and facilities
	18066-67			Horsfield	GPC-D-I	Permit to build gas plant
122	18573-78	Feb.11		Barry	COPE/ITC	Gravel removal permits, bird sanctuary permits re seismic work, drilling
	18721-24			Barry		Measures to control aircraft in sanctuaries, delta
123	18756-69	Feb.12		Yates	MVPI	Definition of cabinet's granting of approval in principal for drilling in the Beaufort Sea
	18771			Yates		Land use regulations
	18788-95			Bayly Yates	COPE/ITC	National Environmental Policy Act of the United States - potential for utilization of approach in Canadian north; approaches to granting of approval in principle to offshore drilling, quarrying
124	18928-29	Feb.13		Milne	COPE/ITC	Conditions (to date) re granting of permits for offshore drilling in Arctic
125	19089-90	Feb.14		Pettigrew	COPE/ITC	Source of DOE authority for response to an environmental emergency
	19102-03			Pettigrew		Legislative requirements which applicants must satisfy
	19115-16			Pettigrew		Roles of DIAND, DOE in Yukon re spills with, without permit, authorization
127	19350-52	Feb.17		Longlitz	CARC	Land Use Advisory Committee, role in evaluating permit for hydrocarbon operation
	19451			Trudeau	COPE	Northwest Territories Fishery Regulation, Northern Inland Waters Act, NWT Land Use Act, terms of reference

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128	19503-504	Feb. 18	YK	Trudeau	COPE	Fisheries Act, NWT Fishery Regulations, Ocean Dumping Act, Arctic Waters Pollution Prevention Act
129	19662-71			Speller Evans	MVPI CARC	Canada Shipping Act, wildlife protection, enforcement; Canada Wildlife Act; Territorial Land Act, Land Regulations, wildlife protection; Arctic Waters Pollution Prevention Act, Migratory Birds Treaty Act, wildlife protection; Migratory Birds Convention Act, water pollution with oil; Fish and Game Act, Canada Fisheries Act
	19688	Feb. 19		Evans Inglis	MVPI	Territorial Land Use Regulations, backfilling of sumps
	19720-21			Inglis		Quarrying applications to Land Use Section of DIAND, permits issued
135	20578-84	Mar. 25	YK	Sprague	MVPI	Recommended water quality standards to reduce impact on aquatic life
136	20663-64	Mar. 26		Sprague		Pipeline needs own water quality regulations in addition to present legislation
	20692-93			Peet	MVPI	Responsibilities of Fisheries branch of DOE come under Federal Fisheries Act, section 34 and NW Territorial Fishery Regulations
	20733			Peet		Section 33 of Fisheries Act
	20758			Peet		Federal Fisheries Act gives DOE minister discretionary powers
137	20808	Apr. 5		Davies	MVPI	Environmental Impact Assessment Act in Ontario
	20913			Simmons	MVPI	NWT Act and NWT Game Ordinance, definition of wildlife management
138	20920-41	Apr. 6		Stephen	MVPI	Migratory Birds Convention Act, Migratory Bird Sanctuaries permits enforcement program
	20946-48			Norton	MVPI	Endangered Species Act, Fish and Wildlife Service Regulations, aerial harassment of big game; Alaska Native Claims Settlement Act, lands withheld from public
	21041			Stephen	MVPI	Within terms of Canada Wildlife Act, creation of National Wildlife Areas
	21060			Stephen		Migratory Birds Convention Act, Fisheries Act, Canada Water Act, Clean Air Act, Lands Act, fines as deterrents to large companies
139	21086-110	Apr. 7		Stephen		Ability of CWS to negate permit jurisdiction to resource developers, policing of (and) violations of permit stipulations in bird sanctuaries, prosecutions
	21149-57			Simmons Stephen		Issuance of scientific land use permits; bonding contractors
	21174-78			Simmons Stephen		Purpose of research permits, Nor Cor lacking permit - Ocean Anti-Dumping Act
140	21304-45	Apr. 8		Usher	COPE/ITC	Exploration permits on Banks Island; granting of exclusive trapping rights on Banks Island to Trappers Association by NWT Government; exploration permits granted in bird sanctuaries; document re compromise program between DIAND, Bankslanders, companies; summary of agreements regarding exploration activity on island which Bankslanders felt they had gained; failure of finalized permits to be sent to communities
141	21510-11	Apr. 9		Cournoyea	COPE/ITC	Futility of native/DIAND consultation re resource exploratory permits
143	21741-43	Apr. 14		Bell	NWT IB/MA	Evidence to be presented in Phase 4
	21756			Manuel	NIB	Indian Act
	21764-66			Manuel		Section 91, B.N.A. Act; federal franchise for Indians, 1958
	21806			Cardinal	IAA	BNA Act, responsibility for Indians, Indian lands
	21810-11			Fumoleau	NWT IB/MA	Relinquishment of Hudson Bay Company Monopoly in 1870; Dominion Land Act of 1872; An Act for the preservation of game in the NWT
	21819			Fumoleau		"1917 Act regarding game in the NWT of Canada" "Convention for the Protection of Migratory Birds in Canada and United States." "1918 Regulations for the protection of game"

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143-A	21845-61	Apr. 14	YK	Russell	NWT IB/MA	B.N.A. Act, possible conflict with the Dene Declaration; Act of 1869, temporary system of administration, control for Rupert's Land, NWT; Territories Act, 1870; Canadian Bill of Rights; Act of Union 1840; federal legislation could delegate decision - making powers to Dene
	21870-72			Russell		BNA Act; sections guaranteeing use of French, English languages; Official Languages Act
	21879-80			Russell		BNA Act; Rights of native people, ethnic groups
	21884-93	Apr. 15		Sanders	NWT IB/MA	Colonial legal system; English law and the acquisition of new territories; Imperial Act of 1858; court case, Cooper V Stuart, 1889, Judicial Committee of the Privy Council; Milirrump case, Northern Territory of Australia, 1971; Judicial Committee's Decision In Re Southern Rhodesia; legal question of whether settled or conquered colony
	21895-902			Sanders		Royal Proclamation of 1763; revisions of English Colonial law; Johnson vs McIntosh, court case in the United States Supreme Court; Calder case, Supreme Court of Canada; pieces of legislation centralizing English policy on Indian questions; Treaty of Utrecht; Articles of Capitulation, Montreal, 1760; court case, Worcester v Georgia; St. Catherines Case, Judicial Committee of the Privy Council; Paulette Case, NWT; Quebec Boundaries Extension Act of 1912
	21907			Sanders		Maori Land Court, New Zealand; Paulette Case, testimony of Dr. Helm, Prof. Gillespie; Alaska land claims settlement
	21913-23			Sanders		Constitutional veto of transfer of Indian land to non-natives; United States, Dawes Allotment Act of 1887; Half Breed Land Grants under the Manitoba Act, 1870, and the Dominion Lands Act; 1867 decision, federal responsibility for Indians and Indian land; Alaska Native Claims Settlement Act; Imperial Statutes of 1802, 1821; Imperial Order - In - Council, entry of Rupert's Land and the Northwest Territories into Canada; U.S. Court case; Worcester vs. Georgia
	21924-26			Sanders		Dominion Lands Act; Manitoba Act of 1870; BNA Act; Metis allotments
	21927-32			Sanders		Quebec Boundaries Extension Act, 1912; Ontario Boundaries Extension Act; Saskatchewan Act, Alberta Act, 1905; Natural Resources Transfer Agreements, 1930; Indian Act; Royal Proclamation of 1763
	21938-43			Sanders		Manitoba Act; Articles of Capitulation, 1760; Ontario Court case, Logan vs. the Attorney General; Marshall Court Judgements, United States
	21950-64			Sanders		St. Catherine's Milling court case; Calder case of British Columbia; Bob White case; Isaac case, Nova Scotia Court of Appeal; Euro-Canadian laws, land Possession, title
	22045			Bean	NWT IB/MA	Indian Act - Chiefs and Band Councils are a federal responsibility
145	22134	Apr. 26		Clarke	NWT IB/MA	Brazil, Indian Statute of 1973; removal of subsoil rights from native people
146	22240-41	Apr. 27		McCullum	NWT IB/MA	Malouf injunction hearing, James Bay case, Quebec; no treaties for aboriginal people in British Columbia
	22245-49			McCullum		Indian Act, lands reserved for Indians responsibility of Minister of DIAND
	22251			McCullum		Boundaries Extension Act of 1912
	22279-86			Richardson	NWT IB/MA	Act passed by Quebec legislature setting up the James Bay Development Corporation; opposition to the project by native people, court case; Malouf injunction

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146	22308-10	Apr.27	YK	Richardson	NWT IB/MA	Overthrow of the Malouf judgement; quotation from Malouf judgement
	22330			Page	NWT IB/MA	Manitoba Act, Section 31, recognition of Metis land titles
147	22369	Apr.28		Page		Columbia River Treaty
	22418-420			Richardson		Supreme court case, Indian Act, Inuit, Quebec
	22485			Nahanni	NWT IB/MA	Migratory Birds Convention Act, Indian Act, Territorial Land Use Regulations, Game Ordinances
148	22692-94	Apr.29		ASCH	NWT IB/MA	Resolution by the Territorial Council, 1956, to ask Government to provide assistance to trappers, Government acted by favoring economic development
150	22858-59	May 4		Hills	NWT IB/MA	U.S. Court case, decision by Chief Justice Marshall, 1823; acquisition of territory
	22864			Hills		Quotation from Brazilian constitution, passage dealing with possession of mineral rights by aboriginal people
	22868-69			Hills		Australia, Queensland parliament, grant to a mining consortium
	22873-74			Hills		Brazilian Constitution; Brazilian mining code, 1967
	22889			Hills		Brazilian Constitution, disregard by present government
	22892			Hills		Brazilian treaty with U.S., data from earth resources satellite
150	22902-03	May 4	YK	Berger		Nabalco judgement, Supreme Court of Northern Territory, Australia; Calder case in B.C.
	23012			Cheezie	NWT IB/MA	Indian Act
151	23102	May 5		McClellan	CYI	Order - in - Council establishing Kluane Game Sanctuary
	23107-08			McClellan		Family Allowance Act, 1944-45; 1952 Revision Act to Provide Old Age Assistance
	23114-16			Cruikshank	CYI	Draft legislation for improved health care, 1940's
	23152			Jacquot	CYI	1944, law made it illegal to hunt, trap, vicinity of Alaska highway
152	23227-28	May 6		Cruikshank		Indian Act - fines levied to Indians re alcohol use
	23343-49			Notti	CYI	Sale of leases on Alaskan outer continental shelf - oil exploration; Alaska Native Claims Settlement Act
	23359-60			Notti		1920 Mineral Leasing Act (U.S.A.) - lawsuit-corridor width
C-44	4342-44	Mar.9	TUK	Horsfield Hnatiuk	GPC-D-I GPC-D-G	Termination date on exploration permits
C-48	4712	Apr.30	FS	R. Brunt	Citizen	Act for the Preservation of Game, Section 4 re buffalo protection
C-50	5020-21	May11	VAN	McCall	Citizen	Act for the Recognition and Protection of Human Rights
C-51	5141	May12	VAN	J. Wight	Citizen	Royal Proclamation of 1763, native rights to land
C-52	5268-74	May13	CAL	Chief Snow	Citizen Citizen	1930 Resources Act, obligations to treaty Indians
C-53	5428-33	May14		Getty	Citizen	Alberta government not able to give land to Indians which it owns in trusteeship for all Albertans
	5549			Irye	Citizen	NEB Act
C-54	5642-43	May17	EDM	Swift	Citizen	Statutes violated by the Great Canadian Oil Sands pipeline, caused by oil spill
	5655			Dickinson	Citizen	Mr. Justice Albert Malouf imposing injunction on construction, James Bay project, pending land claim settlement
C-56	6129	May19	REG	J. Roberts	Citizen	Pipeline Security Treaty, with United States, January 1976
C-57	6217-22	May20	WINN	J. Ryan	Citizen	Section 17 of NEB Act; United Nations Charter of Economic Rights and Duties of State

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C-57	6265-66	May 20	WINN	B. Teixeira	Citizen	Water Power Act, Manitoba regulation 207-72 passes without consultation re: Northern Manitoba hydroelectric development project
155	23765-89	June 30	YK	Forrest	NWT IB/MA	United States, Organic Act of 1884; Alaska Statehood Act, 1958; Mineral Leasing Act, 1920; National Environmental Policy Act, 1969; Alaska Natives Claims Settlement Act
	23795			Forrest		Alaska Natives Claims Settlement Act
	23820-25					Alaska Natives Claims Settlement Act, establishment of corporations, land selection system
	23828			Forrest	NWT IB/MA	US, special act of Congress, land claims of Hingits, Haidis
156	23928	Jul 1		Gillie	NWT IB/MA	To ensure local direction of education should form legislation such as a "public education act"
	23934			Yazzie	NWT IB/MA	U.S., Indian Self-Determination and Education Assistance Act, Public Law 93-638
C-59	6451	May 26	TOR	T. Green	Citizen	National Parks Act, native hunting and fishing rights
	6574-78			L. Little Bear	Citizen	Court cases dealing with native title, Nishgas of B.C., James Bay case, Paulette case of NWT, St. Catherine's Milling and Lumber vs. the Queen; United States, Johnson and Graham's lessee vs. MacIntosh case; BNA Act; Royal Proclamation of 1763
	6588-89			L. Little Bear		Nishga court case, native land title
C-61	6865	May 28		P. Kelly	Citizen	Court decision, St. Catherine's Milling case
C-62	6891-904	May 31	MTL	Ciaccia	Citizen	Indian Act did not give Indians the freedom they needed; major obstacle to reform native communities; James Bay Agreement takes precedence over the Act
C-63	7074-80	June 1		Diamond	Citizen	Indian Act
C-64	7263	June 3	OTT	Mosquin	Citizen	Government should designate Canadian Arctic Wildlife Range under the Yukon Territorial Lands Act, Canada Wildlife Act
C-66	7610-11	June 11	CH	Rydzewski	Citizen	Royal Proclamation of 1763, native ownership of land, P.E.I.
	7641			P. Rydzewski	Citizen	Royal Proclamation of 1763, native ownership of land, PEI
C-67	7735-39	June 8	HAL	Herfst	Citizen	Royal Proclamation of 1763; British North America Act, Dene Declaration re rights to land; Act for the Settlement of Certain Questions re Indian Reserve lands
157	23993-4020	July 5	YK	Thompson	NWT IB/MA	Native ownership of land, resources; Constitutional Act of 1791, Act of Union of 1840, 1852 Imperial Statute 15 and 16, British North America Act of 1867; Canada Oil and Gas Land Regulations, Canada Mining Regulations, Indian Oil and Gas Act, Land Use Regulations; Petroleum and Natural Gas Act
	24029-35			Thompson Berger MacQuarrie	MHA/NWT	Bonus bids for exploratory rights in Gulf of Alaska, royalties; Lands Settlement Agreement in Australia, Aboriginal Land and Northern Territory Bill of 1975"
159	24331-42	July 7		Boorkman	CAGPL	Alaska, 1972 Local Hire Act, Alaska residents given preference new jobs, lack of enforcement mechanism; need for certification of residency
	24355-56			Trusty	CAGPL	Area Development Ordinance, government control of land use, ownership
	24418-29			Boorkman		Alaska, Community Development Act, U.S. federal government; new legislation, grants to municipalities
	24498-99			Boorkman		Alaska Pipeline Authorization Act
	24508			Boorkman		U.S., Hillberton Act, comprehensive health planning act

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161	24917	July 12	YK	MacQuarrie	MHA/NWT	Co-operative Pipeline Agreement for Canada
164	25439-40	July 15		Hobart	CAGPL	Liquor Ordinance, number of violations: Intoxicated Persons Detention Act
165	25515	July 19		Ellwood	Foothills	Territorial Liquor Ordinance obeyed by taverns in major camps
166	25691-92	July 20		Burrell	Foothills	Hiring in Edmonton, for example, would see the imposition of Alberta laws
	25820			Usher	COPE/ITC	No provision in law to prevent employer asking for criminal record on application
167	25969	July 21		Beakhust	COPE/ITC	BNA Act, provisions for unequal representation
169	26326-27	July 23		Stanley	NWT IB/MA	Allotment Act, U.S., land claims experience
171	26629-31	Aug. 17		Dixon	MVPI	Alaska, local hire law, problems of enforcement
	26691			Dixon		US, National Environmental Policy Act of 1969, importance lead to lack of consideration for social environment
172	26751-52	Aug 18		Dixon		Law re definition of "Alaskan", for purposes of local hire, Sec. 38-40,090, Alaska Statutes
175	27265-66	Aug. 23		Hinchey	NWT/CC	Enforcement of MOT regulations re non-commercial operations, stringency of requirements for all worthiness certificates, proposed MOT inspector to enforce regulations
	27269			Hinchey		Mechanics' Lien Ordinance should be reviewed and updated
176	27419-21	Aug. 24		Robinson	COPE/ITC	NWT, education, upcoming ordinance on control
	27435			Robinson		NWT, proposed ordinance of government, super- visory and administrative control of education
	27459-60			Robinson		BNA act, guarantees for minorities
177	27515	Aug. 25		Galloway	NWT/AM	Absence of NWT building and fire codes
	27521-23			Schaverte	NWT/AM	Authority of municipalities, enforcement, NWT
	25532-33			Furdy	NWT/AM	Proposed RCMP agreement with NWT
179	27728	Aug. 27		Runge	MVPI	Creation of NWT Housing Corporation; implement- ing policy of only using National Housing Act programs
	27736			Runge		National Housing Act, rental programs used in NWT
	27741-43A			Runge		National Housing Act, Federal Government subsidies in Act
	27804			Runge		Building standards, National Housing Act
180	27905-06	Sept. 7		Steeves	CAGPL	Guidelines for Northern Pipelines, number two re priority placement in jobs to native people, Article Five of the International Labour Organization Convention III, 1958
	27961			Nessel	MVPI	Pipeline Agreement, union dues paid by payroll deduction
181	28135-38	Sept. 8		Reimer Mitchell	MVPI MVPI	Need re labour relations; Alberta Labour Act restrictive; need re NWT
	28170-72A			Nousiainen Reimer Steeves	MVPI MVPI CAGPL	Protection for ability to organize into a free union movement should exist in Labour Act, example of Germany and Sweden
	28179-79A			Reimer Goudge	MVPI MVPI	People in north need special consideration, labour laws
	28185-86			Breckenridge	MVPI	Needed for labour relations
	28193-96			McRae Breckenridge	MVPI MVPI	Support Canadian Labour Congress position on need for new labour laws, examples of how present ones inadequate
	28221-21A			McRae	MVPI	Delays under present labour code, jurisdiction problems, need new laws
	28227-29			McRae Breckenridge	MVPI MVPI	Proposal to extend working hours for all businesses, against; Labour Standard Ordinances only cite minimum remuneration, collective bargaining under Federal jurisdiction

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182	28250-51	Sept. 9	YK	Forth	MHA/NWT	Recommendation that Community Mental Health Ordinance be established
	28290			McCombs	MHA/NWT	Alaska 1975 Community Mental Health Services Act
	28294-300			McCombs Forth		Alaska Community Mental Health Center Legislation provision of mental health services prior to and after Act of 1975
	28314-15			McCombs		Alaska Mental Health legislation, strong economic tax base not precondition of locally controlled mental health services
	28322-24			Clayton	MHA/NWT	Revising the Mental Health Ordinance, Education Ordinance
	28346-47			Clayton		Juvenile Delinquent's Act, how the community can help the young offender
	28357-58			McCombs		Health Programs prior to 1975 Community Mental Health Centres Act
186	28832	Sept. 16		Basham	MVPI	Guarantee of preferential employment for Northern workers
	28863-65			Basham		Regulation of unions re hire of apprentices: Fort McMurray agreement
	28900			Snowden	MVPI	Alaska proposal - rental of civil services to rural boroughs
187	29006	Sept. 17		Bruce	COPE	NWT Liquor Ordinance, local lockups due to liquor
188	29180-84	Sept. 21		Mrs. Worl	COPE	General Land Allotment Act of 1887; Indian Reorganization Act of 1934; Homestead Act; Alaska Native Allotment Act, 1906; Alaska Statehood Act, 1958; Organic Act, 1884
	29187			Mrs. Worl		The 1969 National Environmental Protection Act, passed prior to Alyeska pipeline construction
	29198-200			Neakok	COPE	Alaska Native Claims Settlement Act, chief beneficiaries have been lawyers
	29217			Neakok		Alaska Native Land Claims Settlement Act
189	29270-71	Sept. 22		Nickerson	NWT/AM	Section 13 of NWT Act, authority to impose and collect property taxes; Section 227(2) of Municipal Ordinance, pipeline taxation; Sub-section 17(2) of Taxation Ordinance, "Taxation Outside of a Municipality"
	29299			Hill	NWT/AM	NWT Municipal Ordinance, local government responsibilities and procedures
	29334			Hill		Canada Election Act, voting rights of Canadian citizens
	29351-52			Sigler	NWT/AM	Residency requirement to vote in a Federal election, Canada Election Act
	29366-68			Smith	NWT/AM	NWT Taxation Ordinance, authorization for assessing, levying and collecting property taxes; Municipal Ordinance
	29379			MacLeod	NWT/AM	Federal-Municipal Grants Act, grant in lieu of taxes by Territorial government except those exempted under Act
	29414	Sept. 22		Scott Smith	MVPI NWT/AM	Federal Grant Statute, exemptions from grant in lieu of taxes
189A	29467			R. Worl	COPE	1971 Alaska Native Claims Settlement Act
	29563-64			Mrs. Worl	COPE	National Environmental Protection Act, to assess impact on environment of Trans-Alaska pipeline
	29617-18			Feilden	NWT/AM	NWT Government's water and sanitation policy of 1973 gives municipality cost of water supply and sewage treatment facilities' construction
191	29751-52	Sept. 24		Hagglund	MVPI	Air services provided and controlled by Aeronautics Act
	29760			Hagglund		Northern roads policy, types and standards of roads
	29784			Hagglund		Transport Act, capacity and rate regulation, administered by Canadian Transport Commission

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191	29853-54	Sept. 24	YK	Prefontaine	MVPI	No regulation to ensure preference to local needs by trucking industry; priority at Fort Liard ferry
	29859			LeBlanc	MVPI	Transport Act, carrier licenced for hire or reward
192	29922	Oct. 4		Baring-Gould	MVPI	Native Land Claims Settlement Act, payment in lieu of land settlement to Valdez residents
	29985-88			Krauss		Alaska, Language Rights Act preceded approval of pipeline
	30007-12			Ritter	MVPI	Alaska Bilingual Education Act, bill passed which established Alaska Native Language Centre; Official Languages Act, 1969, French recognized as a national language
194	30268-71	Oct. 6		Butters	NWT/AM	Growth Centres Bill, extraordinary funding for rapid growth communities, Carrothers Commission
	30282-84			Butters		Comparison of NWT Act relative to Canadian Constitution needed to determine powers of NWT government
196	30783-86	Oct. 12		Skinnarland	CARC	Indian Affairs and Northern Development Act; Territorial Lands Act; Northwest Territories Act; Yukon Territories Act; Northern Inland Waters Act; Oil and Gas Production and Conservation Act; National Energy Board Act; Fisheries Act; Migratory Birds Convention Act; Clean Air Act; Navigable Waters Protection Act; Canada Shipping Act; National Harbour Boards Act
	30816-23			MacLeod	CARC	Northern Inland Waters Act, regulation and administration; Arctic Waters Pollution Prevention Act; Yukon Placer Mining Act; Yukon Quartz Mining Act; Fisheries Act; Territorial Lands Act; Oil and Gas Production and Conservation Act; Ocean Dumping Control Act; creation of Water Boards, responsibilities; Canada Shipping Act; Navigable Waters Protection Act
	30824-37			MacLeod		Water license and use of water without license; procedure for granting water license; rights of licensees; complying with water quality standards; considering licenses in Yukon and NWT; authorization to use water without license; pipeline construction water uses which require license
	30838-46			MacLeod		Exceptions from license for minor water uses, problems with authorizations; methods to enforce environmental stipulations; co-ordinating Water Boards with regulating authority; improving water management
	30856-57			Thompson	CARC	Environmental stipulations, legislation through NEB Gas Pipeline Regulations
	30886-96			MacLeod	CARC	Water license applications for pipeline construction; policing of licences; dredging as subject of water application; standards to be set by Water Boards under Northern Inland Waters Act; British Columbia Water Act, Pollution Control Act; delays in granting licences
	30896			MacLeod		Dempster Highway regulated under Territorial Land Use Regulations, Northern Inland Waters Act; water licences issued in construction
	30901-07			Skinnarland MacLeod	CARC	Problem with land use regulations dealing with gravel mining operations and permits issued by authority; inflexible license conditions; water requirements for snow road construction; number of licenses issued and pending
	31100			Rogol	MVPI	Magnusson-Moss warranty, Federal Trade Commission Improvements Act
	31113			Rogol		Administrative Procedure Act
198	31192-97	Oct. 14		Sterling	MVPI	1972 Expanded Pipeline Guidelines; Human Rights Legislation, proposed affirmative action program; amendment of Fair Practices Ordinance in NWT to permit affirmative action programs; must be training and employment agreement if pipeline is built
198A	31417-20			Christie	MVPI	Residency law in Alaska ensures Alaskan residents employment priority, lack of enforcement
199	31508-12	Oct. 15		Beakhust	COPE	Section 27 of National Transportation Act, issue of licenses to operate on Mackenzie River
	31523			Beakhust		Northern Inland Waters Act
	31575			Zemansky	COPE	Trans-Alaska Pipeline Authorization Act, Public Law 93-153

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201	31862-63	Nov.16	YK	MacQuarrie	MHA/NWT	Social, health operational supervisors, impact funds, community mental health ordinance
202	31882-93	Nov.17		Bayly	COPE/ITC	Legal claim of Inuvialuit to lands, waters, Inuit Hunting Rights Brief; Territorial Land Use Regulations outdated, inadequate
	31899-906			Bayly		Conditions to be satisfied prior to pipeline permit approval; permittee must post performance bond
	31948			Bayly		Review, drafting of legislation re land claims, land use planning, pipeline

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XV	1649	Mar.11	YK	Dau	CAGPL	Potential producing area, Richards Island
	1659			Dau		Supply line, Richards Island
	1674			Dau		Terrain type
XVI	1776-77	Mar.12		Dau		Economics of gas transport
	1869			Berger		Cross delta route change; Shallow Bay
XXV	3037-39	Apr.8		Cooper	CAGPL	Change of course from middle to east channel
XXIX	3618-19	Apr.14		Clark	CAGPL	Terrain type homogeneous
XXXIV	4432	Apr. 22		Dau	CAGPL	Spread camps
40	5270	May 16		Fielder	CAGPL	Use of MO-PAD
41	5273	May 20		Scott	MVPI	Physical evidence of on-shore portion
42	5419-20	May 21		Hurd	CAGPL	Ice related scour
	5545-51			Horte	CAGPL	Volumes of gas available, ultimate reserves
	5564-66			Horte		Potential reserves, looping, timing
43	5652	May 22		Horte		Gas to be sold to Canadian markets
	5661-62			Horte		Demand and supply studies, reserves
	5676-79			Gibbs		Reserves available
	5686			Gibbs		48 inch diameter pipe, capacity
44	5821-24	May 23		Bell	NWT IB/MA	Gas discoveries
	5829-33			Bayly	COPE/ITC	Selection of route; availability of Mackenzie Delta gas
45	5893	May 24		Horte		Trapping, consultation with associations
	5905-09			Bayly		Consultations with communities, gas service
	5953-56			Horte		Gas reservoir
46	6076-77	June 2		Craik	EPB	Disturbance studies
	6130			Bliss	EPB	Winter road experience - plant re-growth
47	6178-82	June 3		McT-Cowan	EPB	Sensitive bird migration, nesting ground
	6186-92			McT-Cowan		No lead time to contain spills with cross delta route
	6197-6206			McT-Cowan		Different from Yukon coastal plain re: mammals
50	6672-74	June 6		Horte		Need both Prudhoe Bay and delta gas to build pipeline economically
C-I	20	Apr.2	Aklavik	Elanik	Citizen	Location of Aklavik
	43-46			Hemstock	CAGPL	Location of routes through delta
	49			Ross	Citizen	Fishing and trapping
C-II	82	Apr.3		Reynolds	Citizen	Oil discovery
	122			Arey	Citizen	Size of muskrat population
	140			A.Ookpik		Severe cold winters; ice on Shallow Bay
	145-46			Atchuk	Citizen	People attached to the land of the delta
C-11	1036	July 8	F. McP.	J. Blake	Citizen	Location of proposed cross delta route change
C-13	1264-69	July 10		A. Stewart	Citizen	Hunting, trapping, Fort McPherson area
58	8240	Aug. 20	YK	Blair	Foothills	Areas of possible gas development re: Mackenzie Delta
52	6896-97	Aug. 12	WH	Banfield	CAGPL	Impact of gathering facilities
53	7093	Aug. 13		Hemstock	CAGPL	Degree of pipeline - related development
	7146-53			Hemstock		Potential reserves
54	7597-98	Aug. 15		Hughes	CARC	Physiographic area and description of terrain
C-20	2060-61	Aug. 7	FGH	A. Rabisca	Citizen	Imperial Base Camp Tununuk, impact on native people
C-21	2110-21	Aug. 9	NW	Blair		Reserve estimates
				Carter	CAGPL	
C-22	2245	Aug.11	WH	Berger		Productivity decrease in northern climate
C-23	2318-24	Aug.14		A. Fekete	Citizen	Impact of crossing at Travailant Lake; oil pipeline break
	2352			C. Taylor	Yukon Conservation Society	No pipeline until reserves proven adequate
63	8970	Sept.17	YK	Scott	MVPI	Delta phase in Inuvik in January 1976

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63	9071-82	Sept.17	YK	Berger		Impacts of gas plants, gathering lines & cross-Delta route to be considered at Inuvik hearings January 1976
68	10102-04 10131	Sept.24		Hushion Dau	Foothills CAGPL	All weather roads from Producers plants to Inuvik Route selection
75	11033	Oct.20		Parker	CARC	Use of snow roads in the Mackenzie Delta region by oil and gas exploration companies
78	11539	Oct.23		Roed	CARC	Mackenzie Sedimentary Basin; area of ice free terrain; comparison to the edge of the shield route
80	11935	Nov. 4		Williams	CAGPL	Observations of impacts of rig moves in Delta
81	12034	Nov. 5		Minning	CAGPL	Borrow supply in Delta
85-A	12755	Nov.12		McCart	CAGPL	Difficulty assessing importance of an area for fish
86	12823	Nov.13		Drew	Foothills	Terrain sensitivity
87	13086	Nov.14		Bayly	COPE/ITC	Secret burial grounds
89	13418-30 13424	Nov.18		Gunn Gunn	CAGPL	Snow geese concentrations; sensitive bird areas; compressor noise; aircraft routing Birds, sensitive areas
91	13788-96	Nov.20		Anthony Berger Bayly Marshall	CARC CAGPL	CAGPL will use cross delta route to save money; impact information prior to selection; decision making process
91	13859-92 13865-92 13893-98	Nov.20		Dau Dau Dau	CAGPL	Capital costs of pipeline, gas flows, pipe mileage Twin crossing, pipe size, mileage, gas flow, capital costs If Fairbanks route built, new pipeline will have to be built to get Delta gas
	13920-51			McCart	CAGPL	Knowledge of fish movements in area
92	14016-17	Nov.21		Bayly	COPE/ITC	Cross-delta panels to deal with marine mammals
93	14133-34	Dec.1		Gunn	CAGPL	Waterfowl habitat and useage; withdrawal of water
94	14211-44	Dec.2		Environmental Panel	CAGPL	Cross Delta Route change; concern for the Upper Delta region, fur bearers; research
96	14700	Dec.4		Gunn		Area of importance to waterfowl and other birds
97	14840-60	Dec.5		Gunn		Importance to birds, snow geese, swans, golden plover etc., nesting, staging; critical areas
98	14865-67 14906-07	Dec.8		Gunn Gunn		As critical bird area Peregrine falcon studies by CWS
99	15077-79 15120	Dec.9		Banfield Hayden	CAGPL Foothills	North Slope province stretches from Delta to far western Alaska Important area for aquatic life
100	15212 15322-25	Dec.10	YK	Whitney Finney	Foothills Foothills	Reindeer herding Whole Delta an area of high bird interest
101	15421 15430-32	Dec.11		Peterson Peterson	CARC	Lack of E-S P research in delta reflects status of routing by potential applicants when research proposals firmed up Important fishery area; Mount Goodenough; proposed as avoidance areas, guideline No. 4
102	15623	Dec.12		Novakowski	CARC	Muskrat population
104	15884-86 15909-12 15896-975	Dec. 16		Steigenberger Steigenberger Stein Steigenberger Walker Millen	CARC CARC CARC CARC CARC CARC	Fish species feeding habits Fish utilization, domestic fishing Fish feeding habits in Delta; Shallow Bay migration route utilization; pipeline impact potential on fisheries; domestic fisheries - historical exploitation; CARC conference on Mackenzie Delta Dec. 3, 1975; impact of permanent road construction

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105	16054 16144	Dec. 17	YK	Stein Lent	CARC CARC	Overwintering site crossed by pipeline Application of experiments with caribou re: design features of oil pipeline (TAPS)
107	16306 16313-14	Jan. 12		Templeton Templeton	EPB	Very sensitive area Unique area
108	16516-19	Jan. 13		Berger McT-Cowan	EPB	Muskrat trapping important to the native villages in the Delta region; impact of oil spills
109	16630	Jan. 14		Thomson	EPB	Cross delta route; channel stabilization, climax vegetation
C-36	3450-51	Jan. 28	In.	Alonik	Citizen	Environmental impact of seismic lines on Delta
C-38	3628-30 3645-47	Feb.12		Berger Alonik Rowe Berger	CAGPL	Pipeline construction in Delta, environmental considerations (general) Applicant payment for land used for project
	3649-51			Lewis Rowe	Citizen	Guarantee of monetary compensation to Delta people from gas revenue
	3675-78	Feb.15		Koe Rowe	Citizen	Fish migration route in Delta; pipeline route across Delta, use of tankers
112	17003-07 17037-70 17074-79 17102-07 17115-23	Jan.20		Berger Bliss Bliss Bliss Bliss	GPC-D	Impact of gas plants gathering lines etc. in Delta to be investigated in hearings. Overview of ecology of Delta. Productivity , Delta area versus Arctic island lakes; diversity of wildlife habitats; whale, waterfowl use; importance of area Distribution of horesetail in Delta, impact from toxic chemical spills, animal use of horesetail Knowledge of impact of drilling process chemicals from Delta site; geese feeding, impact on vegetation; research to be done, toxic spills on vegetation
113	17130-85 17371	Jan.21		Hobart Mainland	GPC-D GPC-D-I	Socio-Economic overview of Delta area Taglu gas field, situated in Mackenzie flood plain
116	17614	Jan.24		Bayly	COPE/ITC	Possible discovery of sulphur bearing, hydro carbons
121	18424-B-38 18445-47 18454-61	Feb. 10		Stein Barry Barry	COPE/ITC	Main objectives of Environmental-Social Committee's Delta fish resource studies; reports from Beaufort Sea study; Delta importance re: spawning, overwintering, as a migration route for anadromous, resident, marine species; impact of dredging, seismic exploration, drilling fluids, oil spills on aquatic organisms; sensitive coastal areas; control of oil spills; need for resource monitoring studies Snow geese migration routes, nesting grounds, staging areas in Delta Importance of Delta bird nesting grounds, fall staging area; Taglu oil well drilling site - impact of noise from equipment, aircraft, on bird nesting habits
122	18489-91 18494-97 18519-22	Feb 11.		Sergeant Sergeant Berger Sergeant	COPE/ITC	White whale utilization of Reindeer Channel; impact of upstream oil spill on whales Definition of a whale reserve in western part of Delta Potential impact of oil, gas activity on white whale delta calving grounds; definition of whale reserve proposal

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122	18552-60	Feb. 11	YK	Stein	COPE/ITC	Fish migration routes, spawning areas in delta
	18574			Barry	COPE/ITC	Gravel supply sources in delta
	18580-99			Barry Stein		Impact of compressor station, aircraft noise on delta birds; definition of Barry cross-delta route proposal; oil leakage into rivers, streams in Mackenzie Valley - impact on fish, waterfowl habitats; bird reaction to aircraft activity
	18603-06			Stein	COPE/ITC	Impact of dredging at Tuktoyaktuk Harbour on fish resource
	18615-22			Sergeant	COPE/ITC	Whales - Inuit hunting in delta, proposed reserve, timing of movements into Shallow Bay, impact of construction activity
	18694-98			Stein		Impact of cross-delta pipeline construction on fish migrations, habitats
123	18734-51	Feb 12		Yates Elkin	MVPI MVPI	Definition of regional planning approach employed in delta by the Federal and NWT governments
124	18882-84	Feb 13		Shearer	COPE/ITC	Subsea pingos, Mackenzie Canyon - lack of offshore permafrost
	18903-22			Lewis	COPE/ITC	Area subject to inundation during storm surges; physical features of delta plain, impact of thaw consolidation on delta pipeline, horizontal stability of delta
125	19050-51	Feb 14		Lewis		Scour hole formation, persistence
	19055-62			Lewis		Storm surges - extent of driftwood line, flooding of delta
	19097-100			Pettigrew	COPE/ITC	Use of delta by fish, waterfowl, mammals - impact of oil spillage
	19069-80			Lewis		Sediment compaction, permafrost distribution, thaw zones, sediment composition, delta size
	19124-30			Snow	COPE/ITC	Sediment character - restricted self-cleaning ability; effects of oil on birds, fish, calving whales, benthic organisms using delta
126	19227-29	Feb 16		Snow		Contingency plan - direction of oil from channels into lakes
	19288-89			Snow	COPE/ITC	Productivity in silty lakes
	19295-97			Snow		Cumulative impact on delta fishery of oil spillage, siltation, eutrophication
130	19736	Mar.16	YK	Marshall	CAGPL	Moving of compressor station CD-08 from delta; concern of Gunn (CAGPL), Barry (CWS) for gas plant location
	19741-43			Williams	CAGPL	Routing across delta, terrain, river crossings
	19755-58			Hollingshead	CAGPL	Delta terrain crossed by Cross-Delta route, soil, ground ice, permafrost, seismicity, tests done
	19770			Minning	CAGPL	Borrow sources in delta
	19787			Gibbs	Foothills	Geotechnical aspects of the Mackenzie delta terrain in "Supplement to applications" by Hurd
131	19840-45	Mar.17		Williams Clark	CAGPL	Pipeline ditching, Shallow Bay
	19852-65			Hollingshead Williams		Pipeline ditching, Shallow Bay; pipe buoyancy potential
	19878			Clark		Gravel required for Shallow Bay crossing
	19888-89			Williams		Dredging Shallow Bay crossing
	19894-96			Hollingshead		Engineering advantages of cross-Delta versus around Delta routes; Shallow Bay crossing
	19912-15			Williams	CAGPL	Water sources for snow manufacture will be selected
	19958-66			Williams		Time needed to pull pipe into trench; gravel backfill; distance between twin pipes, Shallow Bay, crossing
	19972-73			Hollingshead	CAGPL	Scour not serious in Shallow Bay; permafrost conditions in Delta
	19982-20006			Williams		Shallow Bay crossing, dredging, pipe installation, scheduling, ice scour, ice jams

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132	20008-09	Mar. 18	YK	Hollingshead	CAGPL	Bank erosion, Shallow Bay, prevention alternatives
	20017-27			Hollingshead Williams	CAGPL	Shallow Bay crossing, analysis of topography; Barry route Shallow Bay crossing shorter than CAGPL's; twinning pipe at crossing; alternative routes re Delta
	20032-33			Williams Cooper	CAGPL	Difficulty of various river crossings on various routes
	20047-84			Engineering Panel	CAGPL	Shallow Bay crossing, bank erosion, prevention techniques; bottom monility, profile, scour; frost heave tests; objections to winter construction; dredging;scheduling
	20096-111			Engineering Panel	CAGPL	Shallow Bay erosion prevention techniques may be used on channel banks; permafrost distribution; storm surges threatening pipe berm, buoyancy prevention; summer activity bad environmentally; maintenance equipment at Tununuk
	20143-44			Minning	CAGPL	Borrow material sources, west side of Shallow Bay
133	20126-A-33	Mar. 23		Rowe	CAGPL	Environmental impact assessment of cross-Delta route
	20138-61			Environ- mental Panel	CAGPL	Impact of cross-Delta rout, vegetation, mammals, birds, fish, beluga whales, studies, recommendations, overview
	20179-84			Gunn McCart	CAGPL CAGPL	Snow goose use of Shallow Bay area; impact of crossing on fish
134	20207A-12	Mar. 24		Environ- mental Panel		Erosion prevention measures, west side, Shallow Bay crossing; possible impact of oil pepeline, oil spill on whales
	20230-54			McCart Webb	CAGPL CAGPL	Fish migration, effects of constuction traffic on whales, whale hunt, population;warm water distribution; boat traffic, Shallow Bay
	20269-79			Webb Gunn McCart		Impact of increased activity on whales, Delta area; artificial islands impeding ice movements; Shallow Bay crossing construction in two summers, pros and cons for wildlife
	20289			McCart		Dominant benthic species, Shallow Bay
	20298-305			McCart		Studies of benthic organisms in Shallow Bay; fish overwintering in the delta
	20320-36			Webb Gunn		Shallow Bay crossing construction; conflicting with presence of whales; circum-Delta route preferred to cross-Delta for birds, bird use of Shallow Bay, Delta area; impact of borrow operations, Shingle Point
	20350-93			Environ- mental Panel		Cross-examination by Scott re: Impacts on Delta
135	20427-29	Mar. 25		Gunn Webb	CAGPL CAGPL	Moulting waterfowl concentrations; recommendation re ditch spoil material, Shallow Bay crossing, as barrier to whales
	20434-67			Environ- mental Panel	CAGPL	Comparisons of various Delta routes; impact on Delta wildlife, environment; mammals, birds, revegetation, fish
	20483-91			McCart	CAGPL	Comparing Barry and cross-Delta route Shallow Bay crossings; route preference if oil pipeline follows
	20520-25			Hemstock	CAGPL	Slope stability, west bank, Shallow Bay crossing; barging gravel
136	20700-16	Mar. 26		Peet	MVPI	Domestic fishing important; Holmes Creek commercial fishery; important fishery areas
	20718-19			Peet		Demand on fisheries
	20723-24			Peet		Holmes Creek fishery
140	21370-88	Apr. 8		Usher	COPE/ITC	Summary - events associated with gas plant proposal; formation, legitimacy of Mackenzie Delta Gas Assessment Group
C-49	4805-08	May10	VAN	Spong	Citizen	Reproduction grounds for the beluga whale, area area for greatest oil drilling potential
162	24960-63	July 13	YK	Carlson	CAGPL	Shallow Bay, introduction of heat, relief from frost heave stresses; possible blasting; Shallow Bay shorelines, for trenching
193	30085-100	Oct. 5		Hernandez	EPB	EPB Atlas-Delta Maps, recommendations

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193	30195-205	Oct. 5	YK	Templeton	EPB	Land use plan; development activity restrictions; favourable, unfavourable aspects of cross-delta route, siting of wharves, stockpile sites
201	31763-78	Nov.16		Marshall	CAGPL	Advantages, disadvantages of circum-delta, cross-delta routes

MAINTENANCE PROGRAMS

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XXIII	2713-14	Mar.21	YK	Slusarchuk Clark	CAGPL CAGPL	Remedial measures; frost susceptible soil
XXV	3001-10 3012-14 3022	Apr.8		Hardy Williams	CAGPL CAGPL	Reestablishing bank conditions to protect pipe - repair Repair on Labiche River crossing, erosion Pipeline repair
XXVI	3265-67	Apr.9		Clark		Maintenance of berm breaks, water drainage, seasonal variations
XXVIII	3489 3517-18	Apr.11		Hardy Morgenstern	CAGPL	Blockage of culverts Shallow failures, monitoring, repair
XXXVIII	4910-13	May 14		Williams		Remedial measures, repairing of potholes; down time
40	5227-32	May 16		Hurd	CAGPL	Scheduling inspectors and repairs of equipment and controls

MAMMALS - ARCTIC FOX

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81	12077	Nov. 5	YK	Minning	CAGPL	Denning sites at preferred borrow source areas
95	14363-66	Dec.3		Jakimchuk	CAGPL	Attracted to camp sites; garbage, handouts; nuisance; reports; Alyeska; incineration of garbage; firearms
102	15619 15665-71	Dec.12		Novakowski Novakowski	CARC	Not at risk in immediate pipeline corridors; Banks Island trapping; inter-relationship with other mammals Impact on foxes, North Slope denning areas; Banks Island trapping
106	16174	Dec. 18		Lent	CARC	Feeding on left-over food re: construction camp, garbage dump
122	18529-33 18549-50 18633-36	Feb 11	In	Stirling Stirling Stirling	COPE/ITC	Dependence of fox on uneaten seal meat left by polar bear Need for study - importance of sea ice habitat to fox population and consequently to the fur-based economy of region Value of D.O.E. fox studies on Banks Island
133	20148	Mar. 23		Jakimchuk		No dens along cross - Delta route
136	20612-13	Mar. 26		Jakimchuk		Impact on foxes of coastal route using Dew line sites as compressor stations
140	21324	Apr. 8	YK	Usher	COPE/ITC	Studies needed to evaluate impact of oil exploration on fox resource

MAMMALS - BEAVER

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82	12177	Nov. 6	YK	Veale	CYI	Disruption of habitat in south side of Old Crow Flats by impeded subsurface drainage
88	13250	Nov. 17		Lawrence	Foothills	Sewage disposal impact in habitat
100	15351-52	Dec. 10		Whitney	Foothills	Impact of Yellowknife/Pine Point lateral
102	15622-23 15671-74	Dec. 12		Novakowski Novakowski	CARC	Potential impact on populations Impact of upstream oil spill
C-29	2868-69	Sept. 12	JMR	Antoine	Citizen	Beaver hide soaked with oil
122	18585-86	Feb. 11	IN	Barry	COPE/ITC	Habitat locations in relation to Barry route proposal
133	20147 20185	Mar. 23	YK	Jakimchuk Jakimchuk	CAGPL	Danger from oil spills Barry route traverses better habitat than cross-Delta route
135	20432-33	Mar. 25		Jakimchuk		Impact on beaver habitat of Barry Route
148	22640-44	Apr. 29		Rushforth	NWT IB/MA	Spring beaver hunting, Great Bear Lake region
169	26299-300	July 23	YK	Ruttan	NWT IB/MA	Trapping patterns changing with development

MAMMALS - CARIBOU - AS A RESOURCE

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94	14244-359	Dec.2	YK	Banfield Jakimchuk	CAGPL CAGPL	Food source in Old Crow, Fort McPherson, Aklavik, points in Alaska; native economy, research migration routes, numbers, wintering and calving grounds
98	14927	Dec.8		Scott	MVPI	Bluenose, Porcupine herds as food for settlements
	14987			Jakimchuk		More information required on mortality rates
100	15243-47	Dec.10		Bouckhout	Foothills	As food source, Fort Simpson, Fort Good Hope areas
	15365			Scott		Woodland caribou year-round food source
104	15945	Dec. 16		Steigenberger	CARC	Caribou as part of Eskimo diet in North Yukon (general)
106	16207-09	Dec. 18		Calef	CARC	East of Richardson Mountains, hunting areas re: people of Aklavik, Fort McPherson and Inuvik
	16227			Calef		Routes cross native hunting areas
	16267-68			Lent	CARC	Western Arctic population decline re: heavy harvest by natives and villages
108	16520-21	Jan. 13		McT-Cowan	EPB	Food source for villages of Fort McPherson, Aklavik, Kaktovik, Arctic Red, Old Crow; Anderson expedition, whalers
111	16922	Jan. 16		Calef Carter	CAGPL	Caribou wintering east of Richardson Mountains, hunted by Aklavik, Fort McPherson, Inuvik
148	22637-40	Apr. 29		Rushforth	NWT IB/MA	Caribou hunting, Great Bear Lake region, both woodland and barren ground caribou, hunting locations and numbers killed
151	23049-52	May 5	YK	Irving	CYI	Orientation of Kutchin people in prehistoric time to caribou corrals
	23072			Irving		Caribou fencing, corrals of early Kutchin people
153	23468-72	May 7		Sharp	CYI	Caribou hunting, Old Crow region
169	26302-07	July 23		Ruttan	NWT IB/MA	Most important big game resource; harvestable population; need for management program, protection measures
	26366			Ruttan		Estimated caribou populations are mere estimations
C-73	8162-63	Aug. 12	LLM	J. Rabesca	Citizen	Disappearance from area; threat posed by oil spill
189A	29517-20	Sept. 22	YK	R. Worl Buchholdt	COPE COPE	Restricted hunting of Western Arctic herd, impact on people: protein crisis; solutions to problem

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89	13457	Nov.18	YK	Jakimchuk	CAGPL	Coastal route through calving grounds
	13460-61			Jakimchuk		Compressor station construction in area; calving period, locations
	13469			Jakimchuk		Peak period consistency
	13472			Jakimchuk		As weak point in chain of survival
	13487-92			Jakimchuk		Interior and coastal routes, effects
90	13633	Nov.19		Anthony Dabbs	CARC CAGPL	Scheduling helicopter seeding after calving time
	13733-34			Hemstock	CAGPL	Monitoring arrival of caribou in calving grounds
94	14246-359	Dec.2		Banfield Jakimchuk	CAGPL	Population dynamics; life cycle; migration, predators; calving grounds; access, disturbance, impact of construction; route preference
95	14420-21	Dec.3		Hemstock		Critical path approach; work stoppages due to caribou calving; project costs
	14481-96			Banfield Hemstock		Stress and disturbance - impact on reproduction, calving and survival; predators and hunting pressure

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96	14542-83	Dec. 4	YK	Banfield Jakimchuk	CAGPL CAGPL	North Slope calving grounds; sensitivity; fawning survival and population; fertility
	14584-614			Jakimchuk		Preference of routes re calving areas, spring migrations; conflicts between construction activity and migrating caribou; Dempster Highway interactions
	14679-85			Jakimchuk	CAGPL	Calving area - square mileage, shift in range; productivity of the herd; 40-Mile Herd; studies; construction activity
98	14928-41	Dec. 8		Banfield Jakimchuk	CAGPL	North Slope, interference by pipeline; survival rate, predation
99	15024-28	Dec. 9		Jakimchuk		Construction interaction with pregnant cows; work stoppage during migration, calving
105	16133-39	Dec. 17		Lent	CARC	Grounds re: vegetation; calving grounds re: significance to caribou well-being, vegetation, snow cover, isolation; Alaska-Yukon grounds compared to those east of Mackenzie; Nelchina herd re: annual use of calving grounds; Arctic herd re: nutrition during calving period; "nursing band"; dense aggregation month after end of calving
	16142-46			Lent		Nearly all calving in Alaska; mortality re: pipeline construction; desertion, slowdown in rate of calf movement re: human disturbance; importance of timing re: calving and summer periods; vegetation of calving areas
106	16169-87	Dec. 18		Lent		Avoidance of pipe; decline of herds in Alaska - gradual shift re: calving grounds of Steese 40-Mile herd; disruption of Seward Peninsula - Yukon Delta caribou herd re: over-harvest on calving and post-calving areas; protected calving grounds re: Alaska
	16178-87			Lent		Steese 40-Mile herd re: shift in calving grounds; disruption of Seward Peninsula - Yukon Delta herd re: over-harvest calving and post-calving areas; response to barriers re: pre-calving, calving and summer periods
	16193-94			Calef	CARC	Population studies re: types of measures: reproductive rates, live birth rates, autumn calf crop, spring percentage yearlings
	16206-40			Calef	CARC	Calving grounds re: impact of Interior Route, annual use, activities and/or disturbances, restricted in area, sensitivity of caribou, post-calving aggregation, time and place of calving, separation of mother and calf re: results, calf mortality, Coastal Route re: maximum river activity; "Wilderness Act" re: protection to calving grounds; advantages of calving grounds, productivity and survival of herd
	16255			Lent	CARC	Reason for preserving coastal tundra in Wildlife Range
	16265-73			Lent		Natural disturbances re: effect on caribou calving; failure of population estimate re: different post-calving movements
107	16399-406	Jan. 12		McT-Cowan Berger	EPB	Sensitivity during calving and post-calving periods; differing opinion - sensitive periods; calf losses; area of calving - North Slope, foothills, all along the coast; research
108	16407-14	Jan. 13		McT-Cowan Berger		Disturbance to caribou, is the impact greater on the wintering range or on the calving and summer range; calving area-upper slope, lower slopes; disagreement among experts; data gaps; calf survival
110	16755-60	Jan. 15		Bergerud	CARC	Weakest link at calving; disturbance - sensitivity to insects, man, predation; post-calving aggregation
	16774			Lent		Calving grounds essentially wilderness areas
	16791-866			Calef Bergerud Lent		Porcupine calving areas; harassment by insects, wolves, man; other herds; pregnancy and birth rates; management
	16731-35			Bergerud Lent		Importance of calving area to survival of a herd - Nelchina herd, Newfoundland herd

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110	16890-94	Jan. 15	YK	Lent	CARC	Interaction of pipeline alignment and calving areas; calving areas of the Arctic herd, Porcupine herd; Prudhoe Bay herd; construction scheduling; recommendations
	16898-906			Lent		Construction scheduling; mitigative measures; recommendations; North Slope; route choices
111	16910-15	Jan. 16		Calef	CARC	Calving grounds location, Porcupine herd; studies, '72; Skoog studies, arrival depends on weather
	16925-28			Carter Calef	CAGPL	Calving grounds as terminus for spring migration
	16936			Bergerud	CARC	Calving, post calving most critical areas
	16959			Bergerud		Wind chill mortality at calving time
131	19970	Mar. 17		Berger		Summer construction of Prudhoe Bay Supply Line would interfere with calving of Porcupine herd

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89	13457-58	Nov.18	YK	Jakimchuk	CAGPL	Disturbance, interior versus coastal routes
	13469			Jakimchuk		Post-calving re-entry into Canada, Porcupine herd
	13494-96			Jakimchuk		Slide show, Procupine herd, movements
90	13591-99	Nov.19		Dabbs Hemstock Jakimchuk Banfield	CAGPL CAGPL CAGPL	Damage to revegetated areas by trampling, eating
94	14246-359	Dec.2		Banfield Jakimchuk		Routes; population dynamics, habitat and life cycle; wintering and calving grounds; access and disturbance, predators; other herds; past events; research; Aklavik
95	14421-22	Dec.3		Hemstock	CAGPL	Work stoppages due to caribou; project costs; critical path model
96	14560-83	Dec.4		Banfield Jakimchuk		Winter range; other herds; route of migration
	14585-616			Jakimchuk		Spring migration - weakest link; snow conditions, deflection in migration path; interaction between construction activities and migration; use of winter roads
	14624-45			Jakimchuk		Migrations past Old Crow and through the Richardson Mountains, interaction with the Dempster; construction spread camps B and C; disadvantages of the Interior Route; work stoppages; timing of the migration dependent on many factors - snow characteristics; route - use of Old Crow snow road; deflections in route
	14657-58			Banfield		Ungava Herd - migration drops off, dispersed herd
	14681-83			Jakimchuk		40-Mile Herd possibly joining with the Porcupine Herd, migration into the area of Whitehorse, Carcross, Yukon River and Dawson
97	14812-18	Dec.5		Jakimchuk		Harassment, overflights, obstruction by strung pipe, ditch; recommendations
98	14926-15006	Dec.8		Jakimchuk Banfield		Disruption by pipeline, highways, Bluenose, Porcupine herds; other disruptions, Kaminuriak, Ungava, Newfoundland herds
99	15023-28	Dec.9		Jakimchuk		Construction interference with migrating herds, North Slope
	15050			Scott	MVPI	Monitoring, North Slope
100	15363-66	Dec.10		Scott		Reindeer herd joining Bluenose herd, following migration routes; woodland caribou migrate very little
105	16142-52	Dec. 17		Lent	CARC	Effect of construction scheduling; need of caribou to utilize environment re: vegetation; effects of variations in movement re: timing
106	16189	Dec. 18		Calef	CARC	Effects of pipeline re: movements and distribution of herd throughout year
	16192			Calef		Murie study re: Steese 40-Mile herd crossing Steese Highway during migration
	16204-40			Calef		Impact of Interior and Coastal Routes on migration re: calving grounds, winter ranges; compressor stations; timing variation; Old Crow Flats; analysis of migration, evaluation, purpose
	16269-72			Calef		Difficulty of population estimates re: wide ranging nature of migrations

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107	16293-94	Jan. 12	YK	McT-Cowan	EPB	Greater disturbances during calving and under heavy insect attack than during migration; repeated migration through Old Crow
	16399-406			McT-Cowan Berger		Sensitivity; nourishment and fetus requirements during spring migration; potential construction interaction
108	16426-33	Jan. 13		McT-Cowan		Interaction with the interior route, Dempster Highway, preference for the interior route versus the coastal route
	16455-56			McT-Cowan Templeton	EPB	Aircraft overflight altitude
	16520-21			McT-Cowan		Native peoples use of caribou as a food source, depending on the migration
110	16758-60	Jan. 15		Bergerud	CARC	Post-calving aggregation; deflection of migration by a pipeline
	16881-82			Lent	CARC	Utilization of range, nutrient content
111	16907-29	Jan. 16		Carter Calef	CAGPL CARC	Renewable Resources data; research in Biological Report series; Porcupine herd, slides showing movements; seasonal movements crossing pipeline routes; aggregations; in spring to calving grounds; western movements; use of Canning River area
	16931-36			Bergerud		Porcupine herd, interaction with interior, coastal routes; critical periods
124	18983	Feb. 13	IN	Milne	COPE/ITC	Use of coastal waters - danger of oil contamination
C-77	8387	Aug. 26	DET	F. Betsina	Citizen	Pipeline will change travel
193	30105	Oct. 5	YK	Hernandez	EPB	Aircraft should fly at altitudes greater than 500 feet; caribou migrations should be monitored during construction
194	30391	Oct. 6		Hemstock	CAGPL	No contingency plans re caribou on Dempster Highway

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76	11201-11	Oct. 21	YK	Parker	CARC	Alaskan caribou herd; Steese highway; change in herd population
94	14265	Dec. 2		Jakimchuk	CAGPL	Bluenose caribou herd- comparison with Porcupine Herd; population dynamics
	14267-69			Banfield Jakimchuk	CAGPL	Studies on the Kaminuriak Herd by the C.W.S. - population dynamics
	14296-300			Banfield		Reports, - E.P.B. Environmental Impact Assessment by Dr.Calef represents distribution of the ten major herds in North America; 40- Mile Herd; herd in Siberia - on the Taimgr Peninsula; calving records of other herds; population events
95	14423-24	Dec. 3		Banfield		Ungava caribou herd, flooding of a prime winter range by James Bay Power Project
	14477-96			Banfield Jakimchuk		Reindeer herds - Siberia Herd; domestic/ wild herds; Bathurst Inlet Herd
96	14551	Dec. 4		Jakimchuk		Kaminuriak herd - C.W.S. study Ogilvie group, Trevor Range and Bonnet Plume Group; migration routes
	14655-57			Banfield		Ungava Herd, herd reduction
	14681-82			Jakimchuk		40-mile herd, decline, reasons for such a decline
97	14710-13	Dec. 5		Banfield		Information on 40-mile herd, surveys of Western Arctic herd
98	14920-91	Dec. 8		Jakimchuk		Bluenose herd, range and population increase; interaction with pipeline, monitoring; over-wintering contact; data collection; 40-mile, Ungava, Kaminuriak, Newfoundland herds, impacts by man, research data on population depletion, multiple development effects, range reduction; pipeline impact versus road impact

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99	15114	Dec. 9	YK	Bouckhout	Foothills	Future studies
100	15208-12	Dec. 10		Whitney	Foothills	Bluenose herd; will rely heavily on C.W.S. studies; will study winter range; encroachment on reindeer range
	15240-46			Whitney		Freddi, study of Selkirk herd, B.C.; Bluenose herd, potential conflict with reindeer herd
	15353-74			Whitney		Bluenose herd, overwintering range; obtaining report from C.W.S.; interaction with reindeer herd; hunting; monitoring; harassment, adverse selective pressures
105	16133-52	Dec. 17		Lent	CARC	Arctic or Northwest sub-population re: Arctic caribou, Nelchina, Steese 40-Mile, McKinley, Alaska Peninsula herds
106	16177-87	Dec. 18		Lent		Steese 40-Mile herd re: decline; Nelchina re: regular crossing of Richardson Highway; Seward Peninsula - Yukon Delta herd, Kenai Peninsula populations; Arctic herd
	16192-203			Calef	CARC	Bluenose, Steese 40-Mile, Nelchina, re: population studies; Steese 40-Mile, Kaminuriak re: encounters with human activity
	16263-73			Lent		Arctic herd re: unrestricted hunting, legal sale of meat, population decline, high population density
108	16539	Jan. 13		McT-Cowan	EPB	Bluenose herd; Bathurst herd seems to be increasing; impact of continuous disturbance, pipeline looping
110	16750-69	Jan. 15		Bergerud	CARC	Behaviour of woodland caribou found in Newfoundland, Ontario, migratory barren-ground caribou; Nelchina herd; 40-Mile herd; Newfoundland herd; Kaminuriak herd
	16782-84			Calef	CARC	Newfoundland herd; Arctic herd in Alaska; Nelchina herd; Labrador caribou
	16791-92			Bergerud	CARC	Newfoundland herd - insect harassment
	16799-802			Bergerud		Kaminuriak herd, C.W.S. studies, harvesting; disease research, Kelsall's work, predation
	16813-15			Bergerud		Population on the Avalon Peninsula, Newfoundland, aircraft, wolf disturbances
	16823-26			Bergerud		Newfoundland herd, crossing of highways, roads, studies
	16830-39			Bergerud Lent	CARC	Nelchina herd; Newfoundland herd; Bluenose herd
	16857-60			Bergerud Calef Lent		Nelchina herd, monitoring re: Skoog; Mealy Mountain herd; Arctic herd - aerial photography re: census taking; Labrador herd
	16869-72			Lent Calef		Herd declines, Bluenose, 40-Mile herd, herd on the Seward Peninsula
	16882-85			Lent Calef		Nelchina herd, causes for herd reduction; work by G. Boss; 40-Mile herd; hunting
	16892-94			Lent		Arctic herd calving areas; Prudhoe Bay herd calving areas
111	16920-21	Jan. 16		Calef Bergerud		Summer aggregation, Western Arctic, Beverly, Bathurst, Kaminuriak, Newfoundland
	16937-50			Bergerud Lent		Bluenose, interaction with reindeer; numbers; expansion, Western Arctic herd; absorption of reindeer herds, disease spread by reindeer; air pollution impact on Bluenose winter range; contact with reindeer herd; one biologist to study herds north of Yukon River in Alaska
	16959			Bergerud		Kaminuriak herd, calving time
133	20149	Mar. 23		Jakimchuk	CAGPL	Impact, cross-Delta route
134	20343	Mar. 24		Jakimchuk		Possible impact on Bluenose herd near Travaillant Lake

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89	13461 13478-80 13483	Nov.18	YK	Jakimchuk Jakimchuk Jakimchuk	CAGPL	Productivity stability Hunting, increased access; collisions; interruption of migration, effect on productivity Population declines, reasons
94	14245-359	Dec. 2		Banfield Jakimchuk	CAGPL	Research - past studies; population data and dynamics; migration, migration routes; predators, hunting, access and impact of access; other herds, decline; as a resource
96	14547-83 14644-87	Dec.4		Jakimchuk Banfield Jakimchuk Banfield		Studies; herd dynamics; disturbances during calving; reproduction abilities; hunting, predators; fertility Percentage of yearlings in the Porcupine Herd; studies; population estimates; birth rates; mortality rates; herd declines; population capability of the range; 40-mile Herd; predation level; annual kill through hunting; posting of bond to ensure herd maintainance and long term survival; winter range; disturbances; studies by Alaskan game people; access; routing preferences
97	14710-13	Dec.5		Banfield		40-mile herd
98	14921-91	Dec.8		Scott Jakimchuk	MVPI	Bluenose herd, increase, depletion, monitoring; 40-mile, Ungava, Kaminuriak, Newfoundland, Porcupine herds
99	15023-28 15165	Dec.9	YK	Jakimchuk Whitney	CAGPL Foothills	Porcupine herd overwintering on North Slope in construction area Impact, Steese and Taylor Highway, Alaska, highways generally
100	15207-12 15378-79	Dec.10		Whitney Whitney		Detailed survey program started on Woodland, caribou; C.W.S. studies for Bluenose herd information; population increase, Bluenose herd Gathering more than population figures to prepare game management plan
105	16133-52	Dec. 17		Lent	CARC	"Centers of habitation" re: optimum habitat for each sub-population; changes in numbers; disappearance re: Seward Peninsula in 19th century; calving annual migration; Porcupine; habitat re: escape from insects; wintering grounds; importance of coastal zone re: insect relief; movement relative to coast re: weather changes; presence of caribou on tundra re: construction in calving or post-calving areas; difficulty of adapting to man-made changes; experimental methods of passage for summer caribou movements re: Prudhoe Bay, results of studies, recommendations
106	16177-87 16188-203	Dec. 18		Lent Calef	 CARC	Alaska: decline in population; Alaska Peninsula and Porcupine; W. of Mackenzie, wilderness herds, thriving; importance of maintaining migratory group in wilderness setting Effects of pipeline re: population reduction; population estimates re: techniques, Banfield Kelsall, Thomas, Parker; level of accuracy re: population studies; disturbance to herds re: highway traffic, hunting; critical fluctuations re: populations
106	16266-73	Dec. 18	YK	Lent	CARC	Western Arctic herd re: decline in population; studies re: Murie, Banfield; causes of decline
107	16402-06	Jan. 12		Berger McT-Cowan	EPB	Research on calf survival, yearling counts and herd composition
108	16413-14 16422-24 16445-55	Jan. 13		McT-Cowan McT-Cowan McT-Cowan		Predation by wolves, hunting and annual kill impact on the Porcupine herd; data gaps - impossible to draw up an adequate input-output model for the herd Without regulations, or poor enforcement of regulations the caribou herd would be seriously depleted; point of no return Herd population dynamics; game management; posting of a surety bond

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110	16751-71	Jan. 15	YK	Bergerud	CARC	Birth rates, pregnancy rates; mortality rates; Porcupine herd, Nelchina herd, predation; wind chill mortality; insects; Newfoundland herd; 40-Mile herd; access
	16781-84			Calef	CARC	Porcupine herd - population dynamics, state of the herd; studies; wolf predation, insects - harassment; disease; other herds
	16797-806			Bergerud Calef Lent		Birth rates; death rates; pregnancy rates; other herds; wind chill mortality; calving
	16813-21			Bergerud Calef Lent		Stress - herd reaction; mother/calf relationship; competition for food
	16830-39			Bergerud Calef Lent		Importance of the range re: herd maintenance; other herds; threshold of security; adaptability
	16853-60			Bergerud Calef Lent		Monitoring of herd; census taking - annual versus five year counts; hunting
	16871-73			Lent		Other herds; population changes; impacts of hunting, access, highways - Steese
111	16908-30	Jan. 16		Carter	CAGPL	Biological Report Series map, summer movements, numbers on North Slope; wintering numbers; different herds; wintering population north of interior route, '74; Canning River area
	16936-41			Bergerud	CARC	Aggregations serve to get genetics of population sorted out; slippage during calving, post-calving periods; Bluenose herd, numbers; absorption by large caribou herds of reindeer; disease transferred from absorbed reindeer
	16958			Bergerud		Research on caribou by applicant should continue so as not to be blamed for decline
169	26303-05	July 23		Ruttan	NWT IB/MA	Barren-ground caribou, population estimates of various herds
197	31027-35	Oct. 13		Norton Berger	MVPI	Decline in population of western Arctic herd, reasons; shift in migratory routes, in-migration from western Arctic herd to Porcupine herd; proximity of calving grounds to Prudhoe Bay route; measures to rebuild herd
	31146-48			Norton		Accounting for decline in western Arctic caribou herd

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XV	1723	Mar. 11	YK	Dau	CAGPL	Relocation of Prudhoe Bay Supply Line
XVIII	2098-02	Mar. 14		Dau Scott	MVPI	Caribou-bird considerations in selecting Prudhoe Bay Supply line route; lack of priorities
XXIV	2798-99	Apr. 7		Clark	CAGPL	Danger of gabions to caribou
	2832-35			Williams	CAGPL	Effect of blasting on calving, migration
XXXIV	4468	Apr. 22		Veale	CYI	Construction Camp C, impact on calving ground
	4483			Dau		Snow fences, migration
	4497-98			Williams		Camp location, caribou migration
XXXVII	4761-63	May 13		Bayly	COPE/ITC	Construction re-scheduling; herd sizes
41	5333	May 20		Hurd	CAGPL	Migration; avoidance of herd during calving time
	5341			Fielder	CAGPL	U.S.S.R. pipeline designed to avoid affecting migration
46	6045-47	June 2		Templeton	EPB	Serious impacts, Environmental matrix
	6066-67			Craik	EPB	Study due to proposed route alignment migration
	6071			Craik		EPB report #3 appendix 1 (exhibit 137)
	6087			Craik		Co-operative research with CWS 1972
47	6198-6227	June 3		McT-Cowan	EPB	Population, migration, habitat, calving; recommendation
C-I	20-21	Apr. 2	Aklavik	Elanik	Citizen	Resource of the native people
C-II	99-100	Apr. 3		Gordon	Citizen	Migration, pipeline route location
	114-16			Stoor	Citizen	Main source of food to native people
	121-122			Arey	Citizen	Migration

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C-II	126-129	Apr. 3	AK	Ookpik	Citizen	Hunting caribou
C-13	1201	July 10	F. McP	W. McDonald	Citizen	Breeding areas; pipeline construction
C-15	1456-76	July 12	O.C.	Irving	Citizen	Archaeological Studies, Caribou fences
C-16	1523-24	July 13		P. Benjamin	Citizen	Canadian Wildlife Service studies on caribou migration, calving
	1642-48			P. Lord	Citizen	Research by Renewable Resources; disturbed by aircraft
52	6929-33	Aug. 12	WH	Banfield	CAGPL	Comparative impacts of alternate and prime corridors on various herds
	6996-7003			Banfield		Impacts of alternate and prime corridors on herds
	7048-54			Banfield		Conflict with Dr. Calef over impact of coastal and interior routes
53	7161-62	Aug. 13		Banfield		Sensitivity of Marsh Fort option in Alaska
	7280			Collins	CARC	Boundary decisions re: Arctic Wildlife Range
53A	7296	Aug. 13		Leonard	CARC	Unique biological unity of Arctic Wildlife Range
	7310-11			Thompson	CARC	Significance of Arctic Wildlife Range
	7366			Geist	CARC	Protection of lichen
	7378-87			Geist		Changes in the herds historically; social characteristics
54	7408-11	Aug. 14		Geist		Caribou; positive and negative energy budgets
	7420-22			Geist		Study, research; range of the herd
	7429-31			Geist		North slope a productive area for wildlife; winter and summer ranges; availability of food sources; ability to withstand disturbances
	7438-48			Geist Banfield		Herd size; ability to adapt; alternative corridors and route choice and impacts
	7458			Weeden	CARC	Fort Yukon, Fairbanks corridors; calving areas
	7468-69			Weeden		Western and northern portion of the calving ground would be the location of pipeline facilities should the March Creek anticline and eastern Beaufort Sea be developed
	7473-77			Weeden	CARC	Mainline route; impact on calving grounds; human activity and access to the herds; vegetation demand; disturbance by aircraft noise; disruption in migration patterns; construction
55	7635	Aug. 15		Morlan	CARC	Due to climate and vegetation change over time caribou last large herbivores remaining
	7645			Morlan		Adverse effect of mainline and interior route; Mackenzie supply line along Dempster could add to disturbance
	7650-55			Banfield	CAGPL	Re: Dr. Weedon's testimony; survival of Porcupine Herd; Arctic National Wildlife Range; research; EPB hearings
	7658			Banfield		Caribou migrations; impact of Fairbanks corridor
C-21	2146	Aug. 9	NW	R. Laycock	Citizen	Caribou would cross pipeline
C-23	2302-03	Aug. 14	WH	D. Greg	Citizen	Intrinsic value
	2311			R. McKaymie	Citizen	Ability to cross obstacles
	2378-79			D. Taylor	Citizen	Blood loss by mosquitoes
63	9004	Sept. 17	YK	Beer	Foothills	Caribou are reluctant to approach within one eighth of a mile of a continuous noise source; disturbance in breeding areas
75	11058-59	Oct. 20		Weeden		Hunting of Caribou in the Arctic National Wildlife Range; regulations re: animal quota
	11064-75			Weeden		Pipeline routing through the Arctic Wildlife Range impact on Caribou herds; calving grounds; summering grounds; development of Marsh Fork Reserve, Prudhoe Bay gathering lines impact on migration
	11104-22			Parker Weeden	CARC CARC	Impact of human activity, track vehicles, noise aircraft, hunting, access to the herd; caribou energy budget; disturbances may cause the herd to abandon part or all of the calving grounds
76	11160-62	Oct. 21		Parker Weeden		Traffic that the road brings in, part of the cumulative effect; migrations

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MAMMALS - CARIBOU - PORCUPINE HERD

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76	11198-210	Oct. 21	YK	Parker Weeden	CARC CARC	Impact of Alyeska haul road on caribou herds; migration interference; Prudhoe Bay area; Fairbanks corridor
	11251-60			Parker Weeden		Construction scheduling - effect on caribou; assessment of impact
79	11730	Nov. 3		Dabbs	CAGPL	Effect of caribou on revegetated right-of-way
81	11965-71	Nov. 5		Dabbs		Impacts of caribou on seeding programs
82	12143-44	Nov. 6		Dabbs		Conflict between reseeding and calving period
	12202-05			Hemstock	CAGPL	Few caribou in vicinity of winter construction on coastal route
88	13338-42	Nov.17		Marshall	CAGPL	Scheduling of evidence in phase 3
	13375			Dabbs		Scheduling of reseeding to minimize disturbance
89	13445-501	Nov.18		Jakimchuk	CAGPL	Studies, objectives, methods; routing, construction scheduling, recommendations; impacts; migration, calving; adaptations; wintering; disturbance; interior versus coastal route; slide show; impact, Dempster Highway
	13466			Jakimchuk		Concern in regulations; importance of herd
90	13590-99	Nov.19		Dabbs Jakimchuk	CAGPL CAGPL	Caribou impact on revegetated areas
92	14003-04	Nov.21		Bayly	COPE/ITC	Possibility of a caribou panel
93	14193-94	Dec. 1		Gunn	CAGPL	Mainline route may have damaging implications to the caribou herd
94	14244-359	Dec. 2		Banfield Jakimchuk	CAGPL	Herd migration, population, habitat; research; history; as a resource, calving and wintering grounds; Dempster Highway
95	14442-45	Dec.3		Marshall Scott Berger Jakimchuk	CAGPL MVPI	Highway a threat to the herd (Dempster, Mackenzie); assessment of impact
	14447-96			Banfield Jakimchuk		Reports; disturbance - physiological upset; population and reproduction; as a resource; impact of pipeline construction and activities; migration
96	14540-614	Dec.4		Jakimchuk		Sensitivity of caribou versus musk-oxen; calving on the North Slope; population, survival; fertility; winter range; calving range
	14620-704			Jakimchuk Banfield		Migration routes; population; composition of the herd; management of the range; predation and kill; access; calving; posting of a bond to ensure herd maintainance; studies re: Alaskan authorities
97	14738	Dec.5		Berger		Impact of Dempster Highway on herd's wintering ground
	14823-31			Scott Jakimchuk	MVPI CAGPL	Cumulative impact on herd, Dempster Highway plus pipeline
99	15049-50	Dec.9		Hemstock	CAGPL	Monitoring
	15131-32			Whitney	Foothills	No impact on herd
100	15209	Dec.10		Whitney		Will not study Bluenose herd to same degree
101	15457-58	Dec.11		Scott		Report by DeBock and Serendi
102	15692	Dec.12		Novakowski	CARC	Consideration of total ecosystem in corridor planning
105	16146	Dec. 17		Lent	CARC	Major population shifts between Arctic and Porcupine caribou herds
106	16189	Dec. 18		Calef	CARC	Effects re: population reduction, range changes
	16204-40			Calef		Advantages and disadvantages of Interior and Coastal Routes re: impact on migratory routes, winter ranges, hunting, calving grounds, summer and autumn movements, interaction with pipeline repair operations; aesthetics re: compressor stations; Arctic Wildlife Range and Canadian Arctic Wildlife Range; experiments re: compressor station noise simulation

MAMMALS - CARIBOU - PORCUPINE HERD (continued)

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106	16263-73	Dec.18	YK	Lent	CARC	Unrestricted hunting; legal sale of meat; effects of natural disturbances re: heavy snowfall, mortality re: late arrival on calving grounds; monitoring, migrating routes, wintering grounds, population studies
110	16748-71	Jan. 15		Bergerud	CARC	Short-term influence versus long-term influence of a pipeline on the coast; migratory animal, wilderness animal; population dynamics; birth and mortality rates
110	16773-84	Jan. 15	YK	Lent Calef	CARC CARC	Population dynamics; calving areas; sensitivity to disturbance; predation
	16788-849			Bergerud Lent Calef	CARC	Comparison to other herds, reindeer; recoverability; calving on North Slope; habitat needs; life cycle; population dynamics - birth and death rates; disease; harassment; hunting; insects; crossing of highways
	16874-80			Bergerud		Barren-ground caribou versus the woodland caribou
	16892-94			Lent		Calving area
111	16908-31	Jan. 16		Calef		Movements, calving grounds, wintering grounds, post-calving
	16931-37			Bergerud		Interaction with interior route; winter range; interaction with wolves; critical periods, disturbance, slippage
	16954-56			Calef		Impact of Dempster Highway; new interior route south of Porcupine River to avoid August dispersal
C-39	3761	Feb.18	IN	V. Allen	Citizen	Traditional hunting of porcupine herd
	3793			Alonik		Herschel Island, calving, hunting
133	20132	Mar. 23	YK	Rowe	CAGPL	Impact of cross-Delta route less than old prime route
134	20393-96	Mar. 24		Jakimchuk	CAGPL	Small impact of cross-Delta route, preferable to circum-Delta
136	20612-13	Mar. 26		Jakimchuk		Impact of North Slope route using Dew line sites for compressor stations
138	21002-14	Apr. 6		Mossop	MVPI	Impact of Dempster Highway
C-42	4043-45	Mar. 4	SACHS	Essau	Citizen	Caribou found tangled with seismic wires
C-59	6521-23	May 26	TOR	M. Edwards	Citizen	Tele-stimulation in management; electronic control, warding of herds; guiding toward communities
C-64	7261-62	June 3	OTT	Mosquin	Citizen	Reasons for proposing wildlife range - to protect calving, summering grounds
201	31737-38	Nov.16	YK	Marshall	CAGPL	Quotation from CYI submission, opposition to pipeline route along Dempster Highway due to impact on caribou
	31748-55			Marshall		Factors affecting herd recruitment; mitigative measures to protect herds from interaction, harassment
203	32087-100	Nov.18		Anthony	CARC	Importance to Northern Yukon; size of herds; migration routes; decline in population, reasons; fate of 40-mile herd, studies to determine cause of decline; calving grounds; impact of coastal route on caribou; Calef route is most acceptable
	32135-40			Veale	CYI	Importance to Old Crow; need for more studies, demographic research; if herd declines, Old Crow people would suffer culturally and economically
	32171			Veale		Impact of interior route on caribou
94	14301-03	Dec. 2		Jakimchuk	CAGPL	Porcupine Herd's winter range - potential useable areas; maps in Biological Report Series; migration
	14327-59			Environmental Panel	CAGPL	Impact of Dempster Highway; access; hunting, wildlife management policies; migration routes; reports; cumulative effect; terrain damage; North Slope calving area; impact of the various routes; monitoring; compensation
95	14491	Dec. 3		Banfield	CAGPL	Vital area - nurturing of the fetus

MAMMALS - CARIBOU - WINTERING RANGE

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96	14559-82	Dec. 4	YK	Banfield Jakimchuk	CAGPL CAGPL	Wintering ground critical; James Bay flooding of a caribou wintering ground; Dempster Highway; other herds; migration routes; herd size
	14584-86			Jakimchuk		Wintering area in Yukon, migratory corridors; snow conditions; route selection
	14605-08			Jakimchuk		Utilization of winter range, proximity to the Dempster will determine speed limits, convey and equipment transference
	14625-30			Jakimchuk		Contact with construction activities
	14637-44			Jakimchuk		Snow depth in the range; ability to travel and survive; migration routes; use of snow roads, seismic lines by caribou; diversion of the path of migration
	14670-78			Jakimchuk	CAGPL	Wintering in the coastal area from Herschel Island to the Richardsons; large number are found in the vicinity of the proposed corridors; scattered animals versus a herd; predators; alternative habitats; protective measures re: caribou/pipeline interaction - snow fences
98	14920-29	Dec. 8		Jakimchuk		Bluenose herd, range increase, interaction with pipeline, as food source; little contact with Procupine herd
99	15024-28	Dec. 9		Jakimchuk		Porcupine herd, overwintering on North Slope
100	15209-12	Dec. 10		Whitney	Foothills	Bluenose herd, studies
	15361-74			Whitney		Bluenose herd, interaction with reindeer herd; Woodland; Bluenose in Fort Good Hope area only in winter; ROW as additional winter habitat
105	16139-42	Dec. 17		Lent	CARC	Alaska-Yukon Coastal plains; Barrow, Alaska; Prudhoe Bay vicinity; Kuparuk River; Barter Island; Sagavanirktok River; Arctic tundra and foothills; variations re: winter distribution
106	16180-87	Dec. 18		Lent		Gates of the Arctic proposal re: some Arctic herd winter range
	16196-98			Calef	CARC	Steeese 40-Mile herd re: wintering in Ogilvie Mountains; disturbances re: snowmobile traffic and hunters; Kaminuriak population increase results re: penetration into forested winter range
	16206-40			Calef	CARC	Impact of Interior Route and Coastal Route; access re: hunting; Porcupine caribou winter range re: access by Dempster Highway; area of grounds; "random" movements within winter range; Ogilvie Mountains; effect of hunting on wintering caribou; lack of information re: choice of range, winter behaviour, diet, productivity as a result of conditions
107	16399-406	Jan. 12		Berger McT-Cowan	EPB	Sensitivity during wintering; fetus nourishment; potential construction interaction; coastal wintering at times
108	16408-10	Jan. 13		McT-Cowan		Impact of disturbance - greater on the winter range or on the calving and summer range?
	16427-33			McT-Cowan		Interaction with the Dempster Highway
110	16850-52	Jan. 15		Calef		Route through wintering grounds, knowledge of wintering grounds, spatial distribution of caribou on wintering grounds
111	16919-25	Jan. 16		Calef		Some of Porcupine herd wintered in Alaska, '72-'73; north of Interior Route; east of Richardson Mountains, south of Porcupine River
	16931-43			Bergerud Lent	CARC CARC	Interaction with Interior Route; best winter range; wolf interaction; Bluenose range increasing westward; impact of pollution from future Delta developments

MAMMALS - CARIBOU - WOODLAND

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54	7424-25	Aug. 14	WH	Geist	CARC	Characteristics
81	11971	Nov. 5	YK	Dabbs	CAGPL	Small herds not expected to disturb reseeded right-of-way
97	14713	Dec. 5		Banfield	CAGPL	Caribou in Southern and Eastern Yukon are woodland

MAMMALS - CARIBOU - WOODLAND (continued)

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98	14921-22	Dec. 8	YK	Jakimchuk	CAGPL	CAGPL map shows range
99	15131-32	Dec. 9		Whitney	Foothills	Studies of potential impact
100	15207-08	Dec.10		Whitney		Survey program started; crossing ploughed roads in winter
	15239-43			Whitney		Little information available; reports
	15279			Marshall Whitney	CAGPL	Concern for caribou along lateral routes
	15364-65			Scott Whitney	MVPI	Range near pipeline; migrate very little; as food source
110	16874-80	Jan. 15		Lent Bergerud	CARC CARC	Definition of woodland caribou versus barren ground; habitat; predators; reaction to right-of-way; Newfoundland population; disturbances
C-24	2459	Aug. 23	NB	Nahanni	NWT IB/MA	Game hunted re: land use maps

MAMMALS - DALL SHEEP

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XXXI	3912	Apr.16	YK	Purcell	CAGPL	Location of compressor stations
XXXIV	4473	Apr. 22		Dau	CAGPL	Arctic Coast, aircraft flight paths
47	6205-24	June 3		McT-Cowan	EPB	Danger from increased subsistence hunting; recommendation
52	6933-34	Aug. 12	WH	Banfield	CAGPL	Impact of Fairbanks route
53	7161-62	Aug. 13		Banfield		Comparative impact Marsh Fork and Canning River options in Alaska
54	7411-19	Aug. 14		Geist	CARC	Resilience to human activities; acclimatization; adaptation to compressor stations; aircraft disturbance re: energy budgets Fairbanks, Fort Yukon corridors; permanent roads
	7487-88			Weedon	CARC	Interior route, location and proximity to the lambing areas; traverses several important sheep trails, compressor station location
55	7635	Aug. 14		Morlan	CARC	Due to climate and vegetation change over time, Dall Sheep and Caribou, the largest remaining herbivores
89	13458-60	Nov.18	YK	Jakimchuk	CAGPL	Effects, Mt. Goodenough range, coastal and cross-delta routes
94	14343-45	Dec.2		Jakimchuk		Harrassment; adaption to man's activities; contact with man; habitat - Canning River
97	14732-33	Dec.5		Bell Jakimchuk	NWT IB/MA	Avoidance of winter range in route location
99	15131	Dec.9		Whitney	Foothills	Foothills won't cross Yukon, therefore no impact on sheep
106	16254	Dec. 18		Lent	CARC	Canning River extension into Arctic Wildlife Range re: effect of oil leases
107	16290-93	Jan. 12		McT-Cowan	EPB	Mt. Goodenough area, Canning River area; Kluane National Park; disturbance, little choice re: route preference - Prime or Interior
	16338			McT-Cowan	EPB	Disturbance by access, Sheep Mt., Kluane National Park - sheep being loved to death
108	16511-13	Jan. 13		McT-Cowan		Route preference, sheep ranges; interaction with pipeline; Biological Report series Vol. 32
111	16952	Jan. 16		Lent	CARC	Increased hunting, northeastern Brooks Range
134	20393-96	Mar. 24		Jakimchuk	CAGPL	No direct impact by cross-Delta route
169	26308	July 23		Ruttan	NWT IB/MA	As wildlife resource
193	30105	Oct. 5		Hernandez	EPB	Recommendations - aircraft elevations over sheep ranges, siting of facilities

MAMMALS - DENNING SITES

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80	11883	Nov. 4	YK	Hemstock	CAGPL	Upland borrow site good denning area - conflict with fish impacts
89	13463	Nov.18		Jakimchuk	CAGPL	Avoidance of physical alteration, Arctic fox, grizzly bear dens
94	14306-07	Dec.2		Jakimchuk		Wolves - predators of caribou; denning sites, proximity to calving areas
95	14369	Dec.3		Jakimchuk		Construction scheduling and activities; winter construction
99	15130-31	Dec.9		Whitney	Foothills	In borrow areas; relocation of pits

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102	15665-70	Dec.12	YK	Novakowski	CARC	Impact on fox dens, North Slope; foxes returning to disturbed den areas
112.	17123	Jan.20	IN	Bliss	GPC-D	Possible loss of habitat due to Delta gravel mining.
116	17652	Jan.24		Rempel	GPC-D-I	Disturbance to grizzly bear den sites avoided
122	18524-27 18533-34 18544-48	Feb 11		Stirling	COPE/ITC	Slides - polar bear sites Typical locations of polar bear maternal dens Polar bear maternal denning areas, utilization periods; recommendations - seismic operations on Banks Island's coastal denning areas
	18716-18			Stirling		Impact of Prudhoe Bay Supply Line routing on polar bear maternity dens
133	20131-32 20137	Mar. 23	YK	Rowe	CAGPL	No polar or grizzly bear dens along cross-Delta route
	20147-48			Rowe		Niglintgak supply line borders on grizzly denning area; monitoring
				Jakimchuk	CAGPL	Survey of grizzly bear dens on cross-Delta route; few foxes denning in area
134	20215	Mar. 24		Jakimchuk		Bears in dens during winter construction, denning areas to be avoided
135	20430	Mar. 25		Jakimchuk		Realignment of cross - Delta northward impinges on grizzly, arctic fox denning areas
	20503-07			Jakimchuk		Avoiding grizzly and arctic fox denning sites, Niglintgak supply lateral
136	20612	Mar. 26		Jakimchuk		Possible impact of North Slope route using Dew line sites on fox den areas in Malcolm and Firth River Deltas

MAMMALS - DISTURBANCE

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89	13463-65 13478-80 13484-90	Nov.18	YK	Jakimchuk	CAGPL	Dens; aircraft harassment; recommendations Harassment, interruption of migration Caribou adapting to disturbances, various herds; advantages and disadvantages, coastal, interior routes
	13498-500			Jakimchuk		Slides showing noise studies
94	14250-359	Dec.2		Banfield Jakimchuk	CAGPL	Interference in migration patterns and routes, calving, wintering grounds; access and access roads; noise; aircraft use and construction activities; research; caribou life cycle; energy budgets
95	14471-74 14480-96	Dec.3		Gunn Hemstock	CAGPL CAGPL	Aircraft flights over the North Slope; altitude, weather; regulations and enforcement
				Jakimchuk Banfield		Dr. Geist's paper re: disturbance, physiological upset; reproduction ability, stress in wild and domestic reindeer herds; hunting pressure; food resources; confusion predators; aircraft disturbance
96	14544-47 14567-83	Dec.4		Jakimchuk Banfield	CAGPL	Musk-oxen, caribou during calving periods; construction equipment, activity; air traffic
	14567-614			Jakimchuk		Bisecting or partial elimination of a caribou range - James Bay, Dempster, Norway road-way incident; abandonment of a caribou range; hunting pressures; vehicle traffic interference; increased access
	14705-06			Veale	CYI	Access roads, heavy vehicle use; Dempster highway; construction activities; calving area
						Peter Lord's statement of caribou harassment by Renewable Resources in Old Crow
97	14713-15 14724-29 14812-20	Dec.5		Jakimchuk Jakimchuk Jakimchuk		Alleged harassment by Renewable Resources Moose, Mackenzie Valley, winter construction Harassment, overflights, site specific concerns

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98	14926-15006	Dec. 8	YK	Banfield Jakimchuk	CAGPL CAGPL	Pipeline effects on caribou herds
100	15266-70 15374	Dec. 10		Whitney Whitney	Foothills	Aircraft harassment, effects, recommendations Aircraft harassment, effects
101	15457-58	Dec. 11		Scott	MVPI	Geist's study, "Harassment of Large Mammals and Birds with a Critique of the Research Submitted by Arctic Gas Study Ltd., on this subject"
105	16148-52	Dec. 17		Lent	CARC	Caribou crossing pipeline ramps; contrast of black against white snow; caribou blocked re: parallel pipe on other side
106	16169-87	Dec. 18		Lent		Open ditching; greater sensitivity of cows to disturbance; disturbance and barrier effects re: winter events, Bergerud, Klein, Millen, Jonkel; caribou adaptability to human disturbance and pressures
	16190			Calef	CARC	Relationship between disturbance and decline re: pipeline construction and caribou
	16195-203			Calef		Hunting re: Klondike goldiggers; wood burning steamers; traffic re: snowmobile, highway, railroad; Churchill Falls Dam re: Shefferville Railway, haul road and transmission line
	16210-40			Calef		Compressor stations re: sight and sound; significance of noise re: caribou; compressor stations re: located in confined area; calving grounds; sensitivity of caribou re: calving grounds; aircraft; harassment re: insect, excessive photographs; compressor station simulation re: noise, sight, vibrations, men, vehicles; caribou behaviour re: snowmobiles
	16243-46			Lent		Muskoxen re: sensitivity to disturbance during calving period; response to predators, response to human disturbance re: loud noise, snow machines, airplanes, helicopters; consequences of response re: lost calves, mortality due to harassment
	16265-73			Lent		Natural disturbances re: heavy snowfall, late melt, effect on caribou; caribou decline re: natives, villages, wolves
107	16290-91	Jan. 12		McT-Cowan	EPB	Dall Sheep adaptation to noise; provided harassment due to hunting is non-existent; little route choice - Prime or Interior
	16293-94			McT-Cowan		Caribou more subject to disturbance during calving and during peak insect periods versus disturbance during migration
	16335-39			Wilimovsky McT-Cowan	EPB	Access; all-terrain vehicle changed patterns of access hunting disturbance and harassment; energy budgets
	16352			McT-Cowan		Impact of snow harvesting on caribou or mammals
	16391-94			McT-Cowan		Disturbance tests; physiological effects, energy budgets
	16396-406			McT-Cowan		Caribou; route selection; calving and post-calving period; winter range
108	16407-14	Jan. 13		McT-Cowan		Impact greater on the winter range or on the calving and summer range?; experiments re: overflight noise, physiological effects, energy budgets
	16421			McT-Cowan		Lack of human activity in northern Yukon
	16430-32			McT-Cowan		Overflight altitudes, incidence of fog on the coast; surveillance
	16411-14			McT-Cowan		Caribou - overflight altitudes; Dall Sheep, Grizzly Bear ranges, furbearers; route preferences
	16521-22			McT-Cowan		Heavy hunting in the past by whales; aircraft landing strips at the DEW Line stations
110	16755-71	Jan. 15		Bergerud	CARC	Insects, predation - wolves; aircraft flight - frequency sensitivity of the caribou; deflection of migration; access to man
	16779-81			Lent	CARC	Caribou harassment studies
	16783-84			Calef	CARC	Wolf predation, insects, disease - impact on population
	16790-97			Calef Bergerud		Insects; wolf - predation; calf loss due to harassment; pregnancy rates

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110	16806-17	Jan. 15	YK	Calef	CARC	DeBock's studies re: caribou and the Dempster Highway, seismic lines, aircraft overflights; behavioural responses; energy expenditures; harassment by snow-vehicles; railways, biologists; predation; stress
	16843-45			Calef		Harassment of wood bison by snow vehicles, airplane; disease prevention measures; hunting
	16848			Calef		Caribou effected by disturbance to a greater degree as they approach the Porcupine River; fire
	16871-73			Lent	CARC	Herd declines; impact of disturbances; highways; adaptability; hunting; other herds
	16879-80			Bergerud	CARC	Reaction of woodland caribou to aircraft harassment
	16899-906			Lent		Calving on North Slope, construction scheduling, mitigative measures; route choices
111	16929	Jan. 16		Calef		Compressor stations, disturbance to caribou
	16934-40			Bergerud Lent		Caribou adaptation to disturbance; wolf-caribou interaction; stampeding due to aircraft
	16954			Calef		Harassment using snowmobiles, aircraft
112	17083	Jan.20	IN	Bayly Bliss Bliss	COPE/ITC GPC-D	Whales, increased human activity, Delta area
	17099					Effects of Delta gas field development on reindeer
	17116-18			Bliss		Impact of Delta gas field activities on reindeer
116	17652	Jan.24		Rempel	GPC-D-I	Road construction obstacle to movement, traffic and equipment noise, rousing grizzlies
	17668-70			Webb	GPC-D	Response of whales to boat traffic, dredging, aircraft
	17675-76			Webb		Reactions of grizzly bear to aircraft and people
	17684			Appleton	GPC-D-G	Dispersant toxicity to fish, marine mammals
	17751			Bayly Webb	COPE/ITC	Whales and eider ducks, response to disturbance
117	17771	Jan.26		Appleton		Reindeer, disturbance by drilling activity
120	18337-42	Jan.29		Martell	COPE	Disturbance to wildlife by resource extraction industries
121	18479-87	Feb.10		Sergeant	COPE/ITC	White whale behavioural response to human noise, activity; potential disturbance from Reindeer channel crossing
122	18490-97	Feb.11		Sergeant	COPE/ITC	Effects of oil spills, delta island construction on white whale calving habits, sites; extent of disturbance created by researchers during water-borne sound impact studies on whales
	18504-14			Smith	COPE/ITC	Beaufort Sea seal studies - effects of immersion in, ingestion of oil, impact of oil exploration on seal migration; recommended studies - chronic effects of oil contact
	18617-22			Sergeant		Impact of oil, noise, construction activity on whales
	18672-79			Sergeant		White whale reaction to water-borne sounds, aircraft activity, dredging
	18711-12			Smith	COPE/ITC	Impact of development on seal movements in Amundsen Gulf, Beaufort Sea
	18716-17			Stirling	COPE/ITC	Impact of Prudhoe Bay supply Line routing on polar bear maternity dens
124	18973-79	Feb.13		Milne	COPE/ITC	Impact of Canmar site oil blowout on ringed, bearded seals, whales
	18983-85			Milne		Impact of coastal oil contamination on calving whales
127	19391-410	Feb.17		Monaghan	COPE	Seismic camps; blasting, disturbance to muskrats; conflict between bear and man, disturbance of den sites, harassment of aircraft; impact of access roads, cutlines in treeline
	19435-40			Monaghan		Muskrat reproductive rates and seismic; caribou disturbed by seismic

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133	20147	Mar. 23	YK	Jakimchuk	CAGPL	Grizzly bear harassment, Delta
	20154-55			Webb	CAGPL	Beluga whales by cross-Delta route
	20165-66			Jakimchuk		Regulating flights on cross-Delta route to reduce disturbance
134	20252-76	Mar. 24		Webb		Impact on whales of construction of Shallow Bay crossing boat, air traffic etc.; other areas studied
	20322-24			Webb		Whales unlikely to be disturbed by noise from buried pipe; what may disturb whales
	20369-78			Webb		Whale disturbance, impact on calving, Mackenzie Bay, Shallow Bay
	20385-86			Webb		Whale disturbance studies
137	20884-88	Apr. 5		Mossop	MVPI	Interaction with human activity, extermination of animal populations; exposure to new access, winter routes, airstrip, Dempster highway
194	30365	Oct. 6		Hemstock	CAGPL	Further routing studies for an oil pipeline needed to reduce caribou disturbance

MAMMALS - GENERAL

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C-17	1749-51	July 17	F.L.	McLeod	Citizen	Impact of oil exploration
59	8475-	Aug. 21	YK	Fawcett	Foothills	Foothills identification of significant areas of fur bearers
51	6807-08	Aug. 11	WH	Hemstock	CAGPL	Impact on wildlife; varies per species; construction scheduling; greater impact if the interior route is constructed; Fairbanks and Fort Yukon corridor may pose similar degree of mammal disruption
C-20	1927-29	Aug. 7	FGH	G. Shae	Citizen	Effects of development on animals
	2030-31			G. Oudzi	Citizen	Wanton killing of wildlife by construction & drilling companies
C-23	2378-79	Aug. 14	WH	D. Taylor	Citizen	Effect of mosquitoes on moose, rabbits, caribou
83	12351	Nov. 7	YK	Scott Hemstock	MVPI	Conflict of denning sites versus borrow pits
	12427			Hemstock		Rat River, importance to mammal populations
85	12726	Nov. 12		McCart Hemstock	CAGPL	Impact assessment less specific, river crossings
89	13445-65	Nov. 18		Jakimchuk	CAGPL	Studies, objectives, methods, reports, disturbance studies; interior, coastal, cross-delta routes; routing; scheduling; recommendations
	13508			Hemstock		Large mammals, except caribou, not greatly affected by project
90	13655-56	Nov. 19		Jakimchuk		Impact of other corridor projects
93	14146-48	Dec. 1		Gunn Banfield	CAGPL CAGPL	Simulated compressor station noise, effect on caribou
94	14218-19	Dec. 2		Jakimchuk		Fur bearers; upper parts of the Delta
	14234-35			Jakimchuk	CAGPL	Mammals, importance of route selection
	14329			Gunn	CAGPL	Need to examine policies re access, wildlife management
	14339			Jakimchuk		Canning River area; route selection
97	14812-18	Dec. 5		Jakimchuk		Agreement with EPB environmental code; regulations enforcement; harassment, overflights, obstruction, site specific concerns, awareness
98	14986-87	Dec. 8		Jakimchuk		Hunting controls, game management
99	15140-85	Dec. 9		Environmental Panel	Foothills	Environmental impact of pipeline; mitigative measures; aircraft overflights; highway interaction; oil pipeline; laterals
100	15230	Dec. 10		Bouckhout	Foothills	Subjectivity of report conclusions
	15328-32			Whitney	Foothills	Holmes Creek crossing relocation, mammals in area
	15371			Bouckhout		Environmental monitoring program not yet ready
102	15616-60	Dec. 12		Novakowski	CARC	Protection in North, regulations; potential impact of pipeline, rare and endangered species

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106	16166-69	Dec. 18	YK	Lent	CARC	Carson's report re: fish and game biologists as government representatives at field level, value of habitat to fish and wildlife evaluated before construction by evaluation team, biologists, authority to halt construction
	16558-59			Lent		Caribou and moose studies re: effect of pipeline; foxes re: North Slope
108	16434-60	Jan. 13		McT-Cowan	EPB	Impact of an oil spill
	16568			Bliss	EPB	Renewable biological resource
133	20159-61	Mar. 23		Rowe	CAGPL	Overview of Delta
	20185			Jakimchuk	CAGPL	Comparing alternate cross-Delta routes
	20200			Jakimchuk		Impact potential of oil pipeline in same corridor
134	20345-46	Mar. 24		Jakimchuk		Acceptability of summer construction of cross-Delta and coastal routes
	20391-98			Jakimchuk		Impact on mammals of cross-Delta route; impact compared to other routes
135	20430-40	Mar. 25		Jakimchuk		Possible changes to minimize impact of cross-Delta route; cross-Delta, circum-Delta routes compared
148	22637-44	Apr. 29		Rushforth	NWT IB/MA	Moose and caribou hunting in Great Bear Lake region
C-52	5393-96	May13	CAL	C. Osborne	Citizen	Importance of northern habitat
199	31581	Oct.15	YK	Zemansky	COPE	Free passage and movement of big game animals stipulated in Trans-Alaska oil pipeline project is not being observed

MAMMALS - GRIZZLY BEAR

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47	6206-24	June 3	YK	McT-Cowan	EPB	Danger from human garbage; recommendation
95	14360-70	Dec. 3		Jakimchuk	CAGPL	Interaction with compressor stations, construction camps; garbage; Alyeska; hunters; regulations; studies
99	15130	Dec.9		Whitney	Foothills	Denning near borrow sites
102	15630-32	Dec.12		Novakowski	CARC	Potential impacts of pipeline
	15675-82			Novakowski		Richard's Island, pressures, impact from pipeline; present status; habitat reduction; habituation to man, use of guard dogs
	15709-11			Novakowski		Similar sub-species in other parts of world
106	16175	Dec. 18		Lent	CARC	Tamed re: familiarity with men and vehicles, results
107	16295	Jan. 12		McT-Cowan	EPB	Prime and Interior Routes - involvement with the Grizzly
108	16512-14	Jan. 13		McT-Cowan		Route preference; range and potential pipeline interaction; data collection
116	17652-53	Jan.24	IN	Rempel	GPC-D-I	Roused from dens by road construction, disturbance of den sites avoided; increase in hunting
	17675-76			Webb	GPC-D	Reactions of grizzly bear to aircraft and people
	17719-24			Webb		Population decrease due to hunting and industry; nuisance to humans; destruction; population of barren ground grizzly bear
133	20131	Mar. 23	YK	Rowe	CAGPL	Impact of cross-Delta route
	20147			Jakimchuk	CAGPL	Recommendations re cross-Delta route
134	20214-21	Mar. 24		Jakimchuk		Alyeska workers feeding bears; regulations re bear feeding, garbage incineration; man-bear conflicts, dealing with bears
135	20430	Mar. 25		Jakimchuk		Realignment northward of cross-Delta route would impinge on grizzly denning areas
	20503-07			Jakimchuk		Possible impact of Niglintgak supply line; studies, recommendations
C-64	7265	June 3	OTT	Mosquin	Citizen	Barren ground grizzly

MAMMALS - MICROTINE RODENTS

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89	13450-51	Nov. 18	YK	Jakimchuk	CAGPL	Studies, ecological significance
99	15029-33	Dec. 9		Jakimchuk		Use of ROW for feeding, living

MAMMALS - MOOSE (1)

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47	6205	June 3	YK	McT-Cowan	EPB	Reduced population but respond to good management
53A	7378-79	Aug. 13	WH	Geist	CARC	Resilience of the species
79	11698	Nov. 3	YK	Minning	CAGPL	Habitat at borrow site at Oscar Creek Gap
	11734			Harlan	CAGPL	Disturbance of snow cover by moose cause of a ground icing
97	14720-34	Dec. 5		Jakimchuk	CAGPL	Overwintering; Mackenzie River, movements, winter construction impact, mitigative measures, disturbance, winter range
99	15028-33	Dec. 9		Jakimchuk		Browsing on ROW
	15133-35			Whitney	Foothills	Impendence of moose movements, Mackenzie River islands
111	16952	Jan. 16		Lent	CARC	Increased hunting, northeast Colville River, Alaska
133	20148-49	Mar. 23		Jakimchuk		Impact of cross-Delta route
	20164			Rowe	CAGPL	Thunder River crossing below moose wintering ground
135	20519	Mar. 25		Banfield	CAGPL	Moose wintering grounds, Thunder River
148	22644	Apr. 29		Rushforth	NWT IB/MA	Moose hunting, numbers taken, 1974-75, Great Bear Lake region
C-45	4393	Mar.10	TUK	Voudrach	Citizen	Disappearance of moose from Tuk area
169	26307-08	July 23	YK	Ruttan	NWT IB/MA	Threat to moose population, disturbance of wintering areas, excessive hunting
193	30102	Oct. 5		Hernandez	EPB	Construction, human activities near overwintering grounds should be controlled

MAMMALS - MUSKRAT (1)

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XXXIV	4497	Apr. 22	YK	Williams	CAGPL	Trapping, Old Crow Flats
C-I	20	Apr.2	Aklavik	Elanik	Citizen	Trapping in Mackenzie Delta
	22-26			Elanik		Impact of blasting
	27-28			Paul	Citizen	Effects of blasting
	48			Ross	Citizen	Damage from blasting in lakes
C-II	104-05	Apr.3		Malanga	Citizen	Oil drilling, muskrat trapping
	122			Arey	Citizen	Size of population, delta area
C-III	172-73	Apr.4		Marring	Citizen	Blasting, effect on population size
82	12177	Nov. 6	YK	Veale	CYI	Asks is disruption of subsurface drainage on south side of Old Crow Flats could disturb muskrat and beaver habitat
88	13250	Nov. 17		Lawrence	Foothills	Sewage disposal impact on habitat
102	15623	Dec.12		Novakowski	CARC	Potential impact of pipeline
	15667-74			Novakowski		Impact of seismic work, oil spills
	15701-05			Novakowski		Importance of harvest to supplement other trapping, jobs; trapping season
108	16516-19	Jan. 13		Berger		Old Crow Basin, trapping, habitat; impact of oil spills;
	16533			McT-Cowan	EPB	blasting - marsh improvements
				McT-Cowan		Oil spill would be disastrous
C-36	3449	Jan. 28	In.	Alonik	Citizen	Average annual trapping figures
	3496			Adam	Citizen	Muskrat harvest statistics, farming potential
C-39	3761	Feb.18	IN	V. Allen	Citizen	Traditional hunting
	3775-76			Alonik	Citizen	Impact of blasting on muskrats, shock effect on breeding
112	17044	Jan.20		Bliss	GPC-D	Sitidgi Lake, important habitat
	17056-57			Bliss		Muskrats trapped '71 to '73, Inuvik and Aklavik.
	17103-04			Bliss		Horetail as important food
	17123			Bliss		Muskrat use of aquatic vegetation in Delta
116	17652	Jan.24		Rempel	GPC-D-I	Effects of road construction minor.
122	18585-86	Feb.11		Barry	COPE/ITC	Habitat locations in relation to Barry route proposal
127	19414-19	Feb.17		Monaghan	COPE	Pushups, impact of snow removal for roads, stacked explosives, study of muskrat disturbance
130	19750	Mar.16	YK	Hemstock	CAGPL	CAGPL's cross-Delta route crosses less important muskrat habitat than Barry's (CWS) route

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133	20147 20185	Mar. 23	YK	Jakimchuk Jakimchuk	CAGPL	Oil spills as danger Barry route traverses better habitat than cross-Delta route
134	20221-24 20343 20391-93	Mar. 24		Jakimchuk Jakimchuk Jakimchuk		Impact on muskrat of snow harvest from lakes; mortality, reproductive rates; recovery of population Not much impact near Travaillant Lake Impact on habitat, cross-Delta route compared to other routes; impact on traplines
135	20430-33 20503	Mar. 25		Jakimchuk Jakimchuk	CAGPL	Realignment south of cross-Delta route impinges more on rat habitat, impact on trapping Niglintgak supply line in low quality muskrat area
C-44	4239	Mar. 9	TUK	Jacobson	Citizen	Decrease in population

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XXXVII	4747	May 13	YK	Dau	CAGPL	Whales in Shallow Bay
45	5891	May 24		Bayly	COPE/ITC	Whales in Shallow Bay
47	6208-24	June 3		McT-Cowan	EPB	Polar bear, wolverine, wolf
C-II	102-103 120-21	Apr. 3	Aklavik	Gordon Edwards	Citizen Citizen	Herschel Island, branding seals Hovercraft , whales
53	7161-62	Aug. 13	WH	Banfield	CAGPL	Impacts of Marsh Fork and Canning River options in Alaska
53A	7388-90	Aug. 13		Geist	GARC	Mountain sheep - potential disturbance
54	7478 7480-81 7483-84 7505-06	Aug. 14		Weedon Weeden Weeden Weeden	CARC CARC	Polar bears extremely sensitive to disturbances; may cause lower reproduction rates Animals supported by the Arctic National Wildlife Range Canning River area has a valuable grizzly bear and moose habitat area Impact of compressor stations located by Beaufort Sea shore on the polar bear population
55	7652-54	Aug. 15		Banfield		Polar bears; denning sites; Arctic National Wildlife Range; pipeline/bear interaction; Carter Creek drainage
75	11067-68 11090-95	Oct. 20	YK	Weeden Weeden Parker	CARC CARC	Research on the polar bear in the North Slope; reindeer herds in Norway, Finland Polar bear denning sites: reports; North Slope area
81	12077	Nov. 5		Minning	CAGPL	Wolf denning sites at potential borrow pit
82	12157	Nov. 6		Scott	MVPI	Report by Miller on Ross River - subject of reindeer herding
83	12420-21	Nov. 7		Hemstock	CAGPL	Fox denning information available for borrow pit selection
84	12583-84	Nov. 8		Bayly Minning	COPE/ITC CAGPL	Fox denning, upland borrow pits
88	13252	Nov. 17		Lawrence	Foothills	Loose garbage attracts bears, foxes
89	13458 13484	Nov. 18		Jakimchuk Jakimchuk	CAGPL	Coastal route, interactions with muskoxen in Alaska
92	14016-17	Nov. 21		Bayly		Effects on reindeer, development in Scandinavia
94	14288	Dec. 2		Jakimchuk		Marine mammals to be dealt with during cross-delta panel
95	14360-70	Dec. 3		Jakimchuk		Wolves; approach to caribou, intent of the predator
96	14538-47 14646-47 14657 14675 14687	Dec. 4		Banfield Jakimchuk Banfield Jakimchuk Jakimchuk	CAGPL	Musk-oxen on the North Slope; introduction, population dynamics, impact of disturbance Caribou kill due to predation; population dynamics Predation by wolves Snow fences interaction with musk-oxen Furbearers found in the Old Crow Flats

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97	14711	Dec.5	YK	Banfield	CAGPL	Wolf predation, 40-mile caribou herd
98	14885	Dec.8		Scott	MVPI	Bears slashing oil storage bladders
	14930-35			Scott		Wolves, predation on caribou
	14952			Jakimchuk	CAGPL	California Bighorn sheep, range reduction, time span
99	15029-33	Dec.9		Jakimchuk		Use of ROW for feeding, hunting; martens, other mammals
	15131-32			Whitney	Foothills	Aquatic furbearers, potential impact studies
100	15210-12	Dec.10		Whitney		Reindeer herd studies
	15246-47					Reindeer, possible impact, consultation with herders, possible realignment of pipeline
	15347-50			Bouckhout	Foothills	Wharf, stockpile site relocations, Thunder River, Payne Creek, fox dens in area
	15351-52			Whitney		Impact on muskrat, Yellowknife/Pine Point lateral
	15359-64			Whitney		Impact on reindeer herd; herding techniques; interaction with Bluenose herd, possible absorption; as food source; merger problems; interaction with pipeline
	15366			Whitney		Reindeer herding as part of "rational rape of North"
102	15618-60	Dec.12		Novakowski	CARC	Potential impact on fisher, fox, lynx, marten, wolverine, mink, otter, wolf, polar bear
	15670			Novakowski		Wolf habituation to man's presence
	15692-96			Novakowski		Range of fisher; minimal impact on wolverine; wolf hunting
	15699-705			Novakowski		Small mammals will move onto ROW, trapping; mink trapping; importance of marten, squirrels, hares, other small mammals, for trapping
	15709-11			Berger Novakowski		Rare and endangered species; polar, bears, furbearers have subspecies in other parts of world
106	16169	Dec. 18		Lent	CARC	Muskoxen re: encounter with pipeline barrier
	16174			Lent		Wolf re: feeding on food waste of construction camp; destruction of black bear as problem bear
	16199			Calef	CARC	Reindeer re: effect of railway in Scandinavia
	16230			Calef		Wolves re: calving grounds of Porcupine caribou
	16241-46			Lent		Muskoxen re: effect of pipeline, distribution; Arctic Wildlife Range; Numivak Island, Herschel Island, Blow River; sensitive to disturbance; calving period; response to predators
	16267-68			Lent		Wolves re: decline in caribou population
107	16295-96	Jan. 12		McT-Cowan	EPB	Furbearers - level of interference thought to be minor
108	16514-16	Jan. 13		McT-Cowan		Furbearers; changes in plant vegetation of revegetated route cause a change in small furbearers - field mouse, weasels; wolves
110	16776-79	Jan. 15		Lent		Reindeer - domestic and wild; studies
111	16934-46	Jan. 16		Bergerud Lent	CARC	Wolf interaction with caribou, co-existence with man; reindeer herd interaction with Bluenose herd; problems with reindeer herding, raising; wolf control; oil-sprayed during road dust control, wolves, foxes, Prudhoe Bay; future Delta air pollution, etc., impact on reindeer, Scandinavian experience
C-24	2459-60	Aug. 23	NB	Nahanni	NWT IB/MA	Moose, sheep, grizzly bear, black and brown bear, martin re: animals trapped, land use maps
C-28	2787	Sept. 10	Wr	H. Hardisty	Citizen	Lynx - trapping; impact of highway construction crew
C-32	3066	Oct. 8	FR	McConnell	Citizen	Buffalo herds - impact of Pine Point, hunting
C-39	3760-61	Feb.18	IN	V.Allen	Citizen	Hunting of rabbits, ptarmigan
	3765			V.Allen		Whale hunting off Kendall Island
	3770			Alonik	Citizen	White foxes, seals
112	17044	Jan.20		Bliss	GPC-D	Habitat for reindeer, Sitidgi Lake
	17050-53			Bliss		History of reindeer in Alaska, NWT; potential and present reindeer habitat; management, ecology

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C-45	4416	Mar.10	TUK	Berger		Quotes from Slaney's report re whale sightings
C-46	4472-75 4513-17	Mar.11	PAUL	G. Ruben Hnatiuk G. Ruben	Citizen GPC-D-G	Seal hunts in Brown's Harbour, waste of hides by government scientists, decline in population Impact of oil spill on seals, birds
C-48	4709-35	Apr.30	FS	R. Brunt	Citizen	Decline of buffalo herds in Wood Buffalo National Park; increase in wolf populations
C-49	4802-08	May10	VAN	Spong	Citizen	Studies on whales, Ocrinus Orea, beluga
C-59	6523	May26	TOR	M. Edwards	Citizen	Muskoxen, electronic control of herds, aid in collection of hair
C-65	7535-36	June 4	OTT	H.T. Schwarz	Citizen	Beluga whale, vitamin C from muktuk, essential to Inuit, impact of Beaufort Sea oil drilling
201	31767-72	Nov.16	YK	Marshall	CAGPL	Impact of construction of Shallow Bay crossing on whales, mitigative measures to be employed by CAGPL
202	32011-13	Nov.17		Anthony	CARC	Shallow Bay crossing should not be permitted until calving disturbance studies conducted

MAMMALS - WOOD BISON

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99	15131-32	Dec.9	YK	Whitney	Foothills	Studies, potential impact
100	15207-08 15243-46 15269-70 15279	Dec.10		Whitney Bayly Whitney Whitney	COPE/ITC	Survey program started; sharing information with Calef; crossing ploughed roads in winter Herds near Fort Providence and in Elk Island Park only pure ones in existence; avoiding duplicating other's studies; co-operation with other studies Aircraft overflight rules, Mackenzie Bison Sanctuary Concern for bison along lateral routes
100	15367-69			Whitney		Yellowknife/Pine Point lateral, impact on bison; population increasing, Mackenzie Bison Sanctuary
102	15644-45 15675	Dec.12		Novakowski Novawowski	CARC	Present status, potential impact, protection Reintroduction into former habitat, new habitat
110	16817 16839-45	Jan. 15		Calef Calef	CARC	Mother/calf relationship Fort Providence herd - size, growth rates, diseases; Yellowknife supply lateral; habitat; Fort Smith herd; Wood Buffalo National Park; disturbance

MANPOWER DELIVERY SYSTEM

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142	21560-65 21652	Apr. 13	YK	Virtue Virtue	Nortran	Program to supply men, construction phase Program will help maximize opportunities for northerners
161	24797 24908-19 25025-31	July 12		Hollands Hollands Hollands	CAGPL	Will be co-ordinated by government agencies, unions, native organizations, employers; elements of the system Co-ordinating council; use of local liaison officers; involvement of communities, native people; eliminates use of hiring halls Proposal that system be a government co-ordinated activity
170	26422-30 26466-67	Aug. 16		Burrell Burrell	Foothills	Overall objections of northern Manpower Delivery System Canada Manpower in agreement with system for Delivery System but not sure where responsibilities should be
171	26552-56 26566-75	Aug. 17		Burrell Burrell		Government should handle recruitment of labour, continuous basis, question re secondary employment recruitment Telex to join small communities to hiring halls, transportation of men to job; question of agreement between unions, government and pipeline

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134	20208-13	Mar. 24	YK	Webb	CAGPL	West side, Shallow Bay crossing, erosion control technique preferences; impact of oil pipeline oil spill, on whales
	20231-79			Webb		Impact of Shallow Bay crossing on whales; effects of further development in Delta; movements in Beaufort Sea; experience in Churchill River estuary, North Sea; effects of artificial drilling islands
	20312-31			Webb		Previous whale studies, Delta area; population; reproduction; construction scheduling, Shallow Bay, to minimize disturbance; noise disturbance, boat traffic; construction conflicting with whale presence, Shallow Bay; overflight recommendations; accommodating whale hunt
	20358-90			Webb		Impact on whales of cross-Delta route
135	20428-29	Mar. 25		Webb		Shallow Bay crossing ditch spoil mound may be barrier to whales
	20453-54			Jakimchuk	CAGPL	Use of cross-Delta route by mink, reindeer
	20503			Jakimchuk		Use by reindeer of area of Niglitngak supply lateral
	20546			Webb		Prefers circum-Delta route for whales
	20567-71			Webb		Possible ice barrier to whales caused by artificial islands; impact on whales in North Sea, industrial exploration; shipping activity; photo of whale distribution; Delta area
136	20627	Mar. 26		Banfield	CAGPL	Whale alarm, Shallow Bay crossing
139	21082-84	Apr. 7		Stephen	MVPI	Polar bears- pressure from industry, quota changes
	21146-50			Simmons	MVPI	Bear-man conflicts at project sites
C-41	3900-05	Mar. 2	HOL	Kilolaitak	Citizen	Traditional hunting of polar bears
	3940	Mar. 3		Inuktalik	Citizen	Whales at Berkley Point, uncommon
	3953-56			Joss	Citizen	Whales near Reid Island, Minto Bay, Klengenberg Bay; belugas and bowheads
	3963-72			R. Googe	Citizen	Annual catch statistics of white foxes, seals, whales, polar bears, muskox
	3986-88			Memoganak	Citizen	Seal study, seal sickness, whale cancer
C-42	4025-27	Mar. 4	SACHS	W. Lucas	Citizen	Decrease in seals, polar bears because of oil companies
				F. Carpenter	Citizen	
	4037-38			Kuptana	Citizen	Decrease in seals, polar bears and white foxes on Banks Island
	4050-51			Hnatiuk	GPC-D-G	Decrease in seals due to bad ice year in 1974
	4068			A. Elias	Citizen	Hunting foxes traditionally
	4120-23	Mar. 5		Essau	Citizen	Muskox, hunting quota; increase in wolves, control
C-43	4142	Mar. 7	NSH	F. Wolkie	Citizen	Impact of blasting on seals, decrease in population
	4153			S. Wolkie	Citizen	Seals dead because of blasting
C-44	4164-65	Mar. 8	TUK	Nuyaviak	Citizen	Traditional whaling near Kittigazuit
	4175-76			Wolkie	Citizen	Seals will die if bugs in sea are killed by oil spill; oil in seals' holes; hostile polar bears attacking men
	4263-76	Mar. 9		M. Noksana	Citizen	Moving reindeer herd from Alaska
	4284-85			Berger		Reference to Schwartz's submission re Brodie's study of whales shelved by Slaney Associates, validity of allegation
	4290-92			Norberg Berger	Citizen	Studies on bowhead whales in Beaufort Sea by Sergeant, Webb, Brodie
C-45	4371-74	Mar. 10		V. Steen	Citizen	Movement of seals, polar bears, whales in area proposed for oil rig
	4395-96			Schwartz	Citizen	Whales in Beaufort Sea and Kugmallit Bay, interference of seismic activity
	4396-99			M. Noksana	Citizen	Whales in Beaufort Sea after August 20
	4399-402			V. Steen		Beluga whales in Shallow Bay, Kugmallit Bay, hunting whales, sighted at Toker Point, Warren Point
	4415-16			Raddi	Citizen	Bowhead and beluga whales in Sachs Harbour in April and May

MAMMALS - OTHER (continued)

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122	18489-97	Feb. 11	YK	Sergeant	COPE/ITC	White whale - utilization of Delta for calving - conflict with proposed cross-Delta route, impact of sea, upstream oil spills on whales; further research required - impact of water-borne sound on whales, definition of whale preserve in western delta
	18497-518			Sergeant		Ringed seal, bearded seal - summary of studies on distribution, population, migration routes, economics of hunting, role in ecosystem; ringed seal - feeding habits, preferred breeding habitats, impact of oil immersion, oil intake on seals and breeding animals; use of open water leads; hauling out behaviour; annual population production fluctuation, research recommendations
	18524-51			Stirling	COPE/ITC	Slides - Polar bear - population distribution, denning sites, feeding areas; ringed, bearded seals - breathing holes, breeding habitat; written testimony - polar bear population dynamics, seasonal movements, distribution of bears, seals on five ice types, bear maternal denning, critical areas; recommendations - research on polar bears, Arctic fox, seals
	18612-41			Sergeant Stirling		Whales - feeding habits, winter distribution, co-operative research programs, Inuit hunting in Delta, proposed reserve, impact of oil spills in leads, timing of whale movements into Shallow Bay, effect of noise, construction activity on whales; polar bears - international agreement, hunting quotas, population, bear management; Arctic fox - value of Banks Island studies; types of oil used in studies; seals - impact of development on movement, impact of oil on birth lair
	18671-92			Sergeant		White whales - disturbance tolerance - Churchill, seal rivers calving areas, reaction to water-borne sounds, aircraft activity, suction dredge; reproduction rate, balance of hunting; value of annual Delta whale harvest; proposed whale reserve; timing impact of construction across Shallow Bay on calving
	18705-18			Stein Smith Stirling	COPE/ITC COPE/ITC	Sealing centres, seal movements in Beaufort Sea, Amundsen Gulf; mercury in seals in Holman area; polar bear - population, sports hunting revenue, impact of Prudhoe Bay Supply Line on polar bear maternity dens
124	18973-79	Feb. 13		Milne	COPE/ITC	Impact of Cammar site oil blowout on ringed, bearded seals, whales
	18983-85			Milne		Whales - impact of coastal oil contamination on calving whales
125	19129	Feb. 14		Snow	COPE/ITC	Whale skin sensitivity to oil
128	19494-96	Feb. 18		Trudeau	COPE	Impact of explosives on seals
130	19739	Mar. 16	YK	Marshall	CAGPL	Some of Webb's evidence on whales omitted
	19750			Hemstock	CAGPL	Barry's (CWS) cross-Delta route interferes less with beluga than CAGPL's route; concern for beluga only during construction
	19831			Williams	CAGPL	Dredging Shallow Bay, impact on whales
131	19990-92	Mar. 17		Williams		Allowing for whale movements during Shallow Bay crossing construction
133	20132	Mar. 23		Rowe	CAGPL	Impact of cross-Delta route on polar bear, beluga whales
	20148			Jakimchuk	CAGPL	Man-polar bear encounters, cross-Delta route; wolf, wolverine, marten, mink, lynx populations small
	20153-58			Webb	CAGPL	Impact on beluga whales, cross-Delta route
	20162-63			Rowe		Impact of Shallow Bay crossing on beluga whales; whale "alarm"
	20182			Webb		Impact of cross-Delta versus Barry routes on whales
	20191			Webb		Comparing impact of alternative cross-Delta routes on whales

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112	17063-67	Jan.20	IN	Bliss	GPC-D	Beluga, population, summer movements, activities; resource for natives; Slaney report, '72-'74 arrival in Delta; production rates, breeding, yearly kill; polar bear, human contact, range, denning	
	17068-69			Bliss		Reindeer harvesting	
	17075-84			Bliss		Beluga whales in Shallow, Liverpool, Kugmallit Bays; calving population, Beaufort Sea; Cross Delta route interference; use of Liverpool, Husky Lakes to transport material; harvesting by natives; wintering area; studies needed; disturbance; impact of increased activity	
	17097-101			Bliss		Reindeer herd, loss of range to Delta gas field development; reindeer different from caribou; impact on licken of sulphur dioxide from gas plants; summer range	
	17116-18			Bliss		Reindeer, impact of gas field activities, needs investigation	
	17124-27	Jan.20		Berger Bliss	MVPI	Reindeer herd history; beluga whale harvest, Delta; bowhead whale population	
116	17621-22	Jan.24		Bayly Bliss	COPE/ITC	Impact of barge traffic on whales in Liverpool Bay and Shallow Bay	
	17652			Rampel	GPC-D-I	Reindeer crossing roads in development area; minor effect on small mammals	
	17659-72			Webb	GPC-D	Effects of off-shore construction on whale distribution and behaviour; area studied, Tent Island, Kugmallit Bay, Kittigazuit Bay, White fish Station, Shallow Bay, Garry Island, Reindeer Channel, Immerk, Mackenzie Bay, Pelly Island	
	17710-			Appleton	GPC-D-G	Reindeer at Parsons Lake facility area	
	17716-17			Appleton		Influence of flow lines on reindeer movement	
	17721-23			Webb		Polar bears fed by pipeline workers; humans as source of food to polar bears	
	17725-31			Webb		Effects on beluga whale population, dredging; whales in Liverpool Bay; hunting; wintering	
	17739-43			Koe Rempel	Citizen	Protection from polar bear attacks, bear monitors	
	17748-55			Webb		Beluga whales, calving, population count, reasons for choice of Shallow Bay, impact of habitat loss disturbance	
117	17757-60	Jan.26		Ballem Webb	GPC-D GPC-D	Whale studies, White Whale Study; Environmental Impact Assessment, Immerk Artificial Island; Summer Environmental Programs, Mackenzie River Estuary; whales in the Mackenzie Delta	
	17771-72			Appleton	GPC-D-G	Reindeer, overwintering and drilling activity	
120	18273-74	Jan.29		Pimlott	COPE	Polar bear studies in Hudson Bay area; wolves and caribou on Baffin Island	
	18332-38			Martell	COPE	Distribution of mammals in Delta, references to beaver, muskrat, Arctic fox, red fox, marten, mink, wolf, wolverine, lynx, caribou, moose, Dall sheep, reindeer, whales, grizzly bear, polar bear, seals; disturbance	
	18350-55			Martell		Bowhead whales, bluenose herd	
121	18462-87	Feb.10		Sergeant	COPE/ITC	Bowhead whale - population distribution, migration routes in Beaufort Sea, cultural importance, feeding methods; white whale - population, calving practices, movements in Beaufort Sea, distribution in Delta - re warm waters; Inuit whale catch, impact of human noise, activity on whale behaviour; cross-Delta route related to whole population concentrations	

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MANPOWER DELIVERY SYSTEM

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180	27849	Sept 7	YK	Hodson	MVPI	Must be a single government agency to co-ordinate employment matters; enforce defined regulations; representatives from client, contractors, trade unions and native groups.
181	28088-89	Sept 8		McCambly	MVPI	Input of craft unions, recruitment
186	28822-26	Sept. 16		Basham	MVPI	Government unions and pipeline would be involved; information bank; alienation of existing agencies; time required to organize system
	28838-41			Braden Basham	MVPI	Unions will dictate delivery terms
	28865-68			Basham		Authority of Agency manpower system
198	31197-99	Oct.14		Sterling	MVPI	Plans to implement by Training and Employment Liaison Division
	31293-300			Carnew Witty Gates Sterling	MVPI MVPI MVPI	Time needed to have system in operation, pipeline specific facilities; response to Gemini North's proposals as a framework for delivery system
	31344-48			Sterling		CAGPL's suggestion for manpower delivery system; union views; lead time to implement delivery system
204	32333-36	Nov.19		Parker	NWT Govt	Employment and training in Manpower Delivery System

MANUFACTURING

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61	8599	Sept.15	YK	H.L. Stevens S. Cook R. Garlick	USWA USWA USWA	Involvement of U.S.W.A. in Canadian Manufacturing and industries; production of pipe machinery and materials; Canadian content; employment; generated demand; short-term steel needs; world supply of large size pipe
	8641-43	Sept.15		Lazerte	Foothills	Gas turbine compressor industry should be able to meet supply and delivery commitments; capabilities of industry to manufacture compressor units; availability of compressor units; numbers and size of compressor units
63	8995	Sept.17		Beer	Foothills	Turbine compressor sets; turbine and compressor industry is international in nature; Canadian suppliers import parts from the U.S. or Europe
	9117-31	Sept.17		Hushion Wetterberg	Foothills Foothills	Differences in the Canadian supply of 42" and 48" pipe & components; differences in requirements & supply of CAGPL & Foothills proposals
	9171-9201			Hushion		Capability of Canadian manufacturers to supply the pipe specified for CAGPL & Foothills
64	9223-25	Sept.18		Hushion		To produce evidence of offshore suppliers' price fluctuations & Canadian quotations for Foothills pipe
	9228-33			Wetterberg Hushion		Quotations by Canadian suppliers of pipe accounted for commitments to other pipelines; quality & cost of Canadian pipe compared to offshore sources
	9257-62			Hushion		42" pipe Foothills testing in ground is coiled scalp rather than plate, manufactured by IPSCO & STELCO
	9269-70			Shelton	Foothills	International manufacturers ranked by CAGPL metallurgy consultants
67	9879	Sept.23		Mirosh	Foothills	Constraint of supply by Canadian manufacturers affects schedule
68	10130-31	Sept.24		Dau	CAGPL	Choice of contractors for CAGPL project
C-52	5349-53	May13	CAL	G. McCaffrey	Citizen	Pipeline fitting industry
C-53	5465-67	May14		Jonasson	Citizen	Expanding oil and gas industry will benefit all of Canada
C-54	5703-09	May17	EDM	Bannister	Citizen	Gas consumption of Inland - Ocean cement

METER STATIONS

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XV	1660-62	Mar.11	YK	Dau	CAGPL	Location, function
XXIX	3647	Apr.14		Purcell	CAGPL	Compressor and gas measurement stations
XXX	3799	Apr.15		Purcell		Measurement heating value of gas
40	5236	May 16		Hurd	CAGPL	Routine inspection
61	8631	Sept.15		Mirosh	Foothills	Location along route
62	8891-93	Sept.16		Mirosh		Location of communication tower in conjunction with meter stations
63	8975-76	Sept.17		Mirosh		All meter and compressor stations to be unmanned; stations to have back-up power sources
64	9330	Sept.18		Mirosh		Four meter stations north of 60°; geotechnical assessments of sites
68	10087-8 10115-18	Sept.24		Hushion Hushion	Foothills	Included in total acreage requirements Operation of unattended meter stations

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XIXA	2263	Mar.17	YK	Clark	CAGPL	Responses #55
XXVI	3166-73	Apr. 9		Slusarchuk	CAGPL	Pipeline performance - measure of heave
	3209-13			Slusarchuk		Frost heave control, riser rods, pig, geophysical methods
	3256			Slusarchuk		Ground surface movement
XXVIII	3548-51	Apr.11		Scott Morgenstern	MVPI CAGPL	Long term, slope stability
XXIX	3584	Apr.14		Clark		Remedial measures before pipe heaves above ground
	3623-31			Clark,Hardy	CAGPL	Design engineering group - quality control
XXX	3754	Apr.15		McMullen	CAGPL	Anik II monitoring Anik I
XXXI	3929	Apr.16		Koskimaki	CAGPL	Surveillance, compressor stations
	3961			Reid	CAGPL	Testing, discharge end of test sections
	3969			Reid		Test section, Trans-Canada Pipeline
XXXII	4133	Apr.18		Reid		Check for contamination inside pipe
	4139			Reid		Design to detect and reduce sulphur emissions
XXXVII	4782-84	May 13		Dau	CAGPL	Environmental inspectors, contractors' work
XXXVIII	4826-37	May 14		Williams	CAGPL	Snow roads, environmental damage
XXXIX	5162	May 15		Harlan	CAGPL	Inspectors work for owners - environmental priority?
40	5225-29	May 16		Fielder	CAGPL	Leak detection systems, compressor station start up
	5232-36			Hurd	CAGPL	Three approaches
41	5331-35	May 20		Lucas	CARC	Possibly by independent environmental monitoring group
42	5483-92	May 21		Scott Hurd	MVPI	Ground data, data bank on trench
	5495-97			Hurd		Edges of permafrost table, ROW
43	5709-12	May 22		Horte	CAGPL	Government bodies regulatory functions
44	5727-36	May 23		Templeton	EPB	Control, environmental aspects
45	5932-37	May 24		Bayly	COPE/ITC	Regulatory body to oversee the pipeline
	5946-48			Bayly	COPE/ITC	Inspection of pipeline project
46	6031-38	June 2		Templeton	EPB	EPB presentation
	6110			Adam	EPB	Rivers - where aquatic life affected
48	6354-66	June 4		Gourdeau	EPB	Need government supervision, training program
50	6713-22	June 6		Horte	CAGPL	Design support staff, CAGPL control in the field
56	7849-51	Aug. 18		Horte		Environmental monitoring group to view environmental studies; work stoppages due to environmental issues
62	8901-02	Sept.16		Scrimes	Foothills	Provide coordination of the maintenance requirements and assure rapid response and correction of malfunctions; contact between Yellowknife Calgary and district offices facilitated

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63	8996	Sept.17	YK	Beer	Foothills	Complex control systems; re: electric motors in compressor stations; Foothills use of gas turbines
	9044-49			Mirosh	Foothills	Unmanned compressor stations; maintenance and repairs; labour requirements for maintenance
	9138-40			Shelton	Foothills	Pipe must be checked in manufacturing phase, after transport; use of hydrostatic testing & pigs; Detection of leaks by surveillance by air, flame ionization ground surveys, acoustic measurement
68	10096-97	Sept.24		Hushion	Foothills	Plan similar to CAGPL
	10201			Templeton	EPB	Reporting channels of pipeline authority
69	10489-93	Sept.25		Owen	MVPI	Monitoring system by transmission companies; continued monitoring after installation of the pipeline; responsibility for repairs; use of the right-of-way
82	12248-56	Nov. 6		Hemstock	CAGPL	Surveillance flights; responsibility for damages incurred by seismic crews; regulatory structures
86	12870	Nov.13		Vaartnou	Foothills	Revegetated areas
	12951-53			Vaartnou		Scheduling, revegetated areas
88	13253	Nov. 17		Lawrence	Foothills	Garbage disposal along pipeline
	13259-65			Reeves	Foothills	Archaeological sites along route
	13287-88			Reeves		Archaeological monitoring during construction, monitors' role
88A	13363	Nov. 17		Hemstock		Environmental impact of pipeline
90	13574-75	Nov. 19		Dabbs	CAGPL	Monitoring revegetation success
	13727-29			Dabbs Hemstock		Snow road operation duration
	13732-34			Hemstock		Environmental monitoring, methods, personnel, frequency
91	13810-30	Nov. 20		McCart	CAGPL	Monitoring river crossings after construction for erosion
	13909			McCart		Roads crossing rivers, siltation impact on fish
92	13984-87	Nov. 21		McCart		Monitoring operations and maintenance as well as construction; re river crossings, siltation
	14005-06			McCart		Monitoring effects of gravel removal from active flood plains; fish populations
	14026-28			McCart		Possible use of Alyeska experiences and data from monitoring to predict impact in Canada
	14051-52			McCart		Problems of monitoring siltation under ice; frequency
93	14086-92	Dec. 1		Hemstock McCart		Detailed examinations, surveillance teams; construction monitoring
	14184-86			Hemstock Gunn	CAGPL	Catch-22 of monitoring; recommendations in controlling human behaviour; increased human activity and uncontrolled access
94	14313-18	Dec. 2		Hemstock Jakimchuk	CAGPL	Monitoring of caribou migration - time of arrival in calving grounds; construction scheduling; environmental inspectors
	14330-50			Environmental Panel	CAGPL	Dempster and Mackenzie Highways - uncontrolled access; wildlife management policies; construction activities
95	14439-51	Dec. 3		Environmental Panel Marshall Scott Berger	CAGPL MVPI MVPI	Environmental assessment and assumptions; regulations; study of cumulative impacts;
	14507-18			Hemstock Berger		Flight-frequency, altitude, regulations; Ministry of Transport
96	14603-06	Dec.4		Jakimchuk		Monitoring that C.W.S. and Yukon Game Branch are involved in; recommendations re: monitoring traffic; corridors where hunting is allowed; speeds on the Dempster during migration periods; vehicle restrictions
97	14749	Dec.5		Scott		Discussions of monitoring in "regulatory phase"
	14795-820			Templeton Gunn Jakimchuk McCart	EPB	To determine access and overflight restriction dates

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98	14914	Dec.8	YK	Gunn	CAGPL	Increased human access to birds
	14927-35			Jakimchuk	CAGPL	Movements, Bluenose, Porcupine caribou herds, interactions with pipeline, populations
	14960-67			Hemstock	CAGPL	Porcupine herd as it approaches construction, North Slope
	14972-74					Porcupine herd movements, North Slope; Blue-nose herd movements
	14996-15006			Hemstock		Continue after pipeline built
99	15047-52	Dec.9		Scott Hemstock	MVPI	Critical areas; scope of program, commencement, philosophy, consultants' work
	15121			Hayden	Foothills	Monitoring programmes, fish
100	15194	Dec.10		Hayden		Effects on benthic invertebrates, Kotaneelee River
	15251-58			Bouckhout	Foothills	Environmental, during construction
	15370-72			Scott Bouckhout		Foothills monitoring program
101	15439-41	Dec.11		Peterson	CARC	Chick Lake, CAGPL study area; Brackett Lake recommended as IBP industry monitoring site
	15444-47			Peterson		Integrating at least two ecological sites with project monitoring program, IBP sites recommended
102	15545-47	Dec.12		Peterson		South-west corner of proposed Willow Lake IBP site; applicants should propose own sites
	15597-611			Peterson		Brackett Lake IBP site, monitoring location Caribou Hills site, gravel removal; monitoring location advice from applicants; regulatory agencies
103	15742-43	Dec. 15		Stein	CARC	Aquatic ecosystem program, biological monitoring programs re: major development projects
	15759-62			Steigenberger	CARC	Watershed concept re: environmental disruption monitoring
	15783-88			Steigenberger		Post construction program for river beds
	15808-09			Stein		Highway construction impact monitoring programs (general)
	15814			Millen	CARC	300-foot guideline re: separation of stockpile areas from rivers
104	15933-41	Dec. 16		Walker Stein	CARC	Fisheries Service monitoring of construction at three crossings along proposed Mackenzie Highway Route
105	16004	Dec. 17		Stein		Highway monitoring study
	16008			Stein		Request for information re: potential effects on downstream
	16017-23			Walker		Protection of aquatic resources, legislation enforcement; recommendations, guidelines for monitoring surveillance suggested
	16112-22			Ryder	MVPI	Fisheries monitor re: removal of snow and ice bridges; fish migrations; highway culvert and road culvert crossings; sediment levels; water quality; crossing sites; gravel operations; sport fishing, open water and overwintering sites; construction of crossing; resource use by all types of fisheries
106	16255-64	Dec. 18		Lent	CARC	JAFWAT re: controlling construction of Alyeska pipeline; difficulty of monitoring terrain damages to oil field; termination of employment re: environmental insults reported to surveillance personnel; studies re: effects of Alyeska on wildlife, plants and terrain
107	16321	Jan. 12		Craik	EPB	A pipeline authority not to monitor a post-construction situation - revert back to the Territorial government departments
109	16685	Jan. 14		Adam	EPB	Monitoring agency
110	16797	Jan. 15		Calef	CARC	Need for a detailed demographic work re: Porcupine herd
	16852-59			Bergerud Calef Lent	CARC CARC CARC	Staff needed re: monitoring; census taking re: herd size, population dynamics; determination of hunting pressure

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111	16945-53		Jan. 16	YK	Lent Calef	CARC CARC	Prudhoe Bay oil field not monitored; Alaskan agencies, Alyeska line; recommendations	
C-33	3103		Oct. 9	FS	Evans	Citizen	Watch dog committee re: contractors	
112	17095		Jan.20	IN	Bliss	GPC-D	Monitoring on IBP sites, Delta area	
114	17286		Jan.22		Mainland	GPC-D-I	Taglu gas field well clusters	
	17300				Mainland		Taglu gas plant, surveillance of key operations by computer	
	17441				Faulkner	GPC-D-S	Niglintgak gas field, remote monitoring at gas plant of gas wells	
116	17654		Jan.24		Rempel	GPC-D-I	Monitoring and surveillance network planned by producers	
	17680-81				Rempel		Field activities during preoperation stage of development; written policy and procedures manual	
	17718-19				Rempel		Natives trained as environmental monitors	
133	20130		Mar. 23	YK	Rowe	CAGPL	Monitoring Delta channel crossings for impact on fish migration	
	20137				Rowe		Grizzly bear denning area, Niglintgak supply line	
	20152				McCart	CAGPL	Fish movements during Delta river crossing construction	
	20157				Webb	CAGPL	Whale distribution, hunting, Shallow Bay crossing area	
134	20226-29		Mar. 24		McCart		Fish migration; Shallow Bay crossing	
	20327				Webb		Monitoring surveys of whales, Shallow and Mackenzie Bays	
	20386-87				Webb		Sounds disturbing whales during studies; presence of whales	
135	20461-64		Mar. 25		McCart		Fish movements, during construction; Delta channel crossings	
	20595				Sprague	MVPI	Monitoring impact on benthic organisms to measure siltation	
137	20853-55		Apr. 5		Davies	MVPI	Surveillance during construction and operation to minimize environmental damage	
138	20989		Apr. 6		Simmons	MVPI	Role of agency, coordination	
139	21113-29		Apr. 7		Simmons Norton	MVPI	Establishment of a Mackenzie Valley Authority for surveillance, monitoring of pipeline construction	
	21169-70				Stephen	MVPI	Co-ordinated monitoring program- CWS, applicant	
140	21315-22				Usher	COPE/ITC	Monitoring of petroleum operations on Banks Island, problems- who would assess damage, criteria for forcing operation alterations	
117	17798-802		Jan.26	IN	Rempel Wopnford Appleton	GPC-D-I GPC-D-S GPC-D-G	Distinction between monitoring and surveillance, co-ordination with government	
118	18018		Jan.27		Motyka	GPC-D-G	Prevention of hydrate fires	
121	18417-19		Feb.10		Percy	COPE/ITC	Need for program to monitor marine environment during an actual oil spill	
	18435				Stein	COPE/ITC	Resource monitoring studies to identify environmental problems	
	18453-54				Barry	COPE/ITC	Value of environmental impact monitoring	
122	18492-94		Feb.11		Sergeant	COPE/ITC	Whale response to water-borne sounds from oil, gas exploration, exploitation	
	18514-17				Smith	COPE/ITC	Recommendations - seal migration route, productivity monitoring	
	18548-51				Stirling	COPE/ITC	Studies - Impact of man, industrial activity on polar bear behaviour, distribution; need to monitor P.C.B. levels in seals, polar bears	
	18555-56				Stein		Holmes Creek - fish utilization for spawning	
	18644-45				Stein		Fish movements, construction activity	
123	18867		Feb.12		Goudge Yates	MVPI MVPI	Ability of Regional Planning Committee to monitor, correct social programs	
126	19280		Feb.16		Snow	COPE/ITC	Pre and post-construction monitoring of water quality, biological parameters	
132	20012		Mar.18	YK	Williams	CAGPL	Underwater inspection of pipe at Delta channel crossings	
	20054				Clark	CAGPL	Monitoring erosion of west bank, Shallow Bay, after construction	
	20096				Hollingshead	CAGPL	Monitoring bank erosion of Delta channel crossings	

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C-47	4604	Mar.13	ARR	A. Andre	Citizen	Wants native monitors along pipeline, native divers near pipe under Mackenzie
C-50	4936-50	May11	VAN	D'Easum	Citizen	Watchdog agency for environmental affairs
C-57	6164-65	May20	WINN	K. Johnson	Citizen	Environmental standards enforced during pipeline construction
159	24444	July 7	YK	Boorkman	CAGPL	Needed in small communities
193	30094	Oct. 5		Hernandez	EPB	Peter Lake - fishing should be monitored
	30106			Hernandez		Caribou migrations
	30137-39			Doyle	EPB	Role of inspectors during facility site surveys, investigation
194	30311-15	Oct.6		Doyle		Staff requirement
	30336-39			Doyle		Agency should be responsible for regulatory monitoring, receptive to ecological monitoring
	30400-02			Hemstock	CAGPL	Company intends to have its own inspectors during the construction period
	30402-04			Hemstock		General review of monitoring program 1971 to present
196	30909-11A	Oct.12		Thompson Skinnarland	CARC CARC	Long-term pipeline surveillance, responsibility of authority, role of pipeline company; environmental field team proposed in applications; liaison between field team and authority
200	31629-30	Nov.15		Scott	MVPI	Third party involvement in monitoring
	31703-05			Genest	CAGPL	Division of responsibilities between agency, territorial governments, Northern Advisory Board
201	31770-71	Nov.16		Marshall	CAGPL	Surveys of whale distribution, hunter harvest planned
202	31895	Nov.17		Bayly	COPE/ITC	Management plan, monitoring scheme for fish, marine mammals, wildlife

MORAL AND ETHICAL ISSUES

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C-49	4779-81	May10	VAN	Deroo	Citizen	Development destroying native cultures
	4829-30			Wilson	Citizen	Natives should be indistinguishable from other Canadians, melting pot theory, need for structural, political and social reforms
	4831-35			Forguharson	Citizen	Pipeline issue is an ethical problem; if north strong, Canada will be strong
C-50	4855-57	May11		O'Brien	Citizen	Cannot support economic venture which ignores needs of the people affected
	4923-25			St. Dennis	Citizen	Right to extract resources to satisfy industry, should live in greater harmony with earth, less exploitation
	5002-05			Antonides	Citizen	Canadians should change their goals, be less materialistic
C-51	5156-61	May12		T. Eden	Citizen	Concern about public social responsibility
C-52	5337-48	May13	CAL	P. Elder	Citizen	Policy making; focus on individual minority, majority population status; protection of future generations
	5383-87			M. Serediak	Citizen	National outlook; ideas of assimilation
C-53	5421-22	May14		Getty	Citizen	Ensuring democracy, protecting minority groups
	5500-01			Tyler	Citizen	Wastage at the expense of the underprivileged
C-54	5618-23	May17	EDM	Johnson	Citizen	Issue of energy development over environmental conservation
	5653			Kuhn	Citizen	Southerners having right to extend their way of life at the expense of original cultures
	5716-19			Starr	Citizen	Benefits of development, not always for the majority
	5744-47			Spencer	Citizen	Should not be the oil companies decision as to say what is good or needed by Canadians, people can speak for themselves
C-55	5789-95	May18		V. Wishart	Citizen	Common good and justice must be concern for justice to the environment
	5920-21			J. Harvey	CAGPL	Need for recommendations to prevent mistakes
	5958			K. Vandergrift	Citizen	Religious conflict, proposed development and human environment

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C-56	6118-23	May19	REG	S. Dusel	Citizen	Long range implications; Canadians' concept of themselves
C-57	6153-54	May20	WINN	B. Valentine	Citizen	Luxurious living in south vs severe northern life, moral relationship to nature, stewards of earth
	6198			F. Bonokoski	Citizen	Stewardship of resources; re-examination of value system
C-58	6331	May25	TO	B. Massman	Citizen	Development must be based on social justice for native people, responsible stewardship
C-59	6510-12	May 26	TOR	P. Scott	Citizen	Question of southerners "rights"; impact on land, native cultures
	6569			Q. Ferri	Citizen	Moral decision involved, moratorium necessary; should be emphasis on conservation
C-60	6685-87			J. Marshall	Citizen	Support of Canadian lifestyle by process of underdevelopment; values of a consumer society
	6707-12			Father M. O'Kane	Citizen	International repercussions of decisions; need for new attitudes toward human existence, equality
--						
C-62	6947-53	May 31	MTL	Franklin	Citizen	Humanistic plan re development, calling for restoration of Magna Carta
C-63	6972-80	Jun 1		Morrisette	Citizen	Historically, white domination of native people, imposing culture
	7131-37			Mukerie	Citizen	Dominant societies ethnocentric view of other societies
C-64	7208-33	June 3	OTT	Hatton	Citizen	Concerns of the church, Project North
C-66	7655	June 7	CH	N. Getty	Citizen	Question of which has precedence community or individual rights

NATIVE DEPENDENCE - GOVERNMENT PROGRAMS

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143	21796-807	Apr. 14	YK	Cardinal	IAA	Need for native control of institutions affecting native people; question of control of Indian education in Alberta
144	22028-51	Apr. 15		Bean	NWT IB/MA	Government control of local government; conflict between local councils and native political structures
	22055-57			Bean		Non-Dene control of settlement councils
145	22135-37	Apr. 26		Clarke	NWT IB/MA	Brazil, government program of pacification and integration; Indian dependence on government handouts
146	22246-47	Apr. 27		McCullum	NWT IB/MA	Community of South Indian Lake dependent on welfare since development of Churchill River diversion project
	22255-60			McCullum		Percentage of DIAND budget for welfare
	22271-77			Jones	NWT IB/MA	Tree harvesting, effects on hunting, trapping; employment of native people
	22336			Page	NWT IB/MA	End of the nineteenth century, dependence on relief to avoid starvation
147	22359	Apr. 28		Page		Metis migrated to urban areas, some on welfare
	22532			Snowshoe	NWT IB/MA	Government subsidies, spoiling people, return to traditional life
148	22699-701	Apr. 29		Asch	NWT IB/MA	Governmental policies creating changes in the economic organization; government payments replacing productive labor; increasing dependence on externally controlled trade good sector
	22706			Asch		Welfare representing a social intrusion
	22730			Asch		Employment on the pipeline will also increase dependence on welfare when job terminates
149	22833-34	May 3		Simpson	NWT IB/MA	Native dependence on welfare
151	23106-08	May 5		McClellan	CYI	Introduction of family allowances; Alaska highway impact, increased welfare
153	23412-14	May 7		Sharp	CYI	To receive government aid, families forced to remain near employers and services
	23450			Sharp		Government agencies providing welfare and winter work projects, Ross River
C-40	3853	Feb. 23	AK	Furlong	Citizen	Steps to self-determination, settlement of land claims, time to develop claims
157	24087-88	July 5	YK	Hobart	CAGPL	Transfer payments - welfare, pensions, child allowance, source of income
158	24173-79	July 6		Hobart		Welfare, impact on extended sharing groups
167	25869-76	July 21		Brody	COPE/ITC	Acceptance of programs, persistence of native attitudes, domination by whites
	25900-02			Usher	COPE/ITC	Extension of family allowances, old age pensions; schools, nursing stations; movement off land into settlements; policy decisions without native input
C-69	7936	July 17	KL	H. Simba	Citizen	Provision of supplies to people, impact on traditional ways
C-74	8253	Aug. 13	RL	Chief Arrowmaker	Citizen	Welfare and family allowance when no money
	8279			J. Mantla	Citizen	Sometimes no assistance, transportation
C-75	8330-31	Aug. 21	CL	B. T. Seleie	Citizen	Taking away independence of people, schools try to destroy pride
182	28370-74	Sept 9	YK	Clarke	COPE/ITC	Homeownership plans; government intervention in native housing; native eligibility for federal housing benefits; land and homes promised by government to those moving to new Inuvik self-respect lost to dependence
200	31646-51	Nov. 15		Genest	CAGPL	Native society increasingly dependent on government employment, transfer payments

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113	17240-42	Jan.21	IN	Hobart	GPC-D	Gives more independence to do what one wants than welfare but still a vulnerability in Delta
144	21910-11 21992-97 22062-64	Apr. 15	YK	Sanders Saul Bean	NWT IB/MA NWT IB/MA NWT IB/MA	Native people excluded from the economy Africa, reliance on cash crops; economic problems Myth about relationship between full employment and self-determination
146	22257	Apr. 27		McCullum	NWT IB/MA	Effects of wage employment, large development projects
147	22403-410 22516-517	Apr. 28		Richardson Nahanni	NWT IB/MA NWT IB/MA	Wage history of Cree people, 1950's, employment fitted to lifestyle, integration of wage employment with substance living Transition from traditional to wage economy
148	22556-57 22678 22691-93 22707-08 22732-33	Apr. 29		Nahanni Asch Asch Asch Asch	NWT IB/MA NWT IB/MA NWT IB/MA NWT IB/MA	Native involvement in wage economy not voluntary Slavey region characterized by economic relationship in which native people receive material well being in exchange for long-term economic dependency Regional economy transformed by the new fur trade conditions, historic development Some spending earnings on socially useful activities, others with no family responsibilities spending it on luxuries, alcohol Native participation in pipeline construction, taking away from bush resource oriented employment
151	23100-106	May 5		McClellan	CYI	Native employment, construction of Alaska highway
C-56	6083	May19	REG	P. Prebble	Citizen	Energy corridor, forcing wage employment
C-57	6291	May20	WINN	R. Johnstone	Citizen	Erosion of native independence, impact on natives; Duck Lake Band, impact of relocation in Churchill
157	24097-102	July 5	YK	Hobart	CAGPL	Preference for wage employment, disinterest in trapping noted in studies by Clairmont, Van Stone, Helm, Welsh, Cohen, Chance, Hurlbert, Lurie
158	24179-202			Hobart		Wage labour, creation of problems; young men employed, group with fewest financial responsibilities
160	24630-37	July 8		Asch	NWT IB/MA	Comments by Hobart re Asch's testimony; negative factors involved
163	25101-12	July 14		Hobart		Importance, dependable employment opportunities; possible problems if anticipated jobs do not materialize
167	25879	July 21		Brody	COPE/ITC	Wage labour, main option open to Inuit
168	21142-44	July 22		Brody		Uncertainty of jobs, effect on need for regular income
169	26340-46			Stanley	NWT IB/MA	How young people spend their wages; destroying sharing
C-74	8297	Aug. 13	RL	J. Tailbone	Citizen	Money accrue to whites, change lifestyle
C-75	8323-24	Aug. 21	CL	D. Tobac	Citizen	If young start working for pipeline will not go back to traditional lifestyle, problems after project finished
172	26777	Aug. 18	YK	McDiarmid	Citizen (COPE/ITC)	1971, public assistance regulations revised, training program initiated by government and industry to engage all employables in the wage economy
178	27616-22	Aug. 26		Merret Pritchard	MVPI MVPI	Exposure to monetary reward system, incentives, disenchantment, duration, increase available labour force
181	28073	Sept. 8		McCambly	MVPI	Channeling local residents to permanent jobs to ease shock after construction ends
182	28391	Sept. 9		Clarke	COPE/ITC	Natives must support expansion of North's economic base
184	28439 28955-56	Sept. 14		Atcheson Kehoe	COPE/ITC COPE/ITC	Alternative methods of payment should be explored, training given to learn to handle budgeting Result in loss of identity, control

NATIVE DEPENDENCE - WAGE ECONOMY (continued)

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184	28475-78	Sept.14	YK	Atcheson	COPE/ITC	Imposition, adverse effects, inability to return to traditional lifestyles, solutions
187	28979-80	Sept. 17		Raddi	COPE	Effect of wage economy on alcohol use among natives; access to liquor
188	29237-38	Sept. 21		Lincoln	COPE	Decline of native self-sufficiency, dependency on artificial survival; money earned from pipeline work spent on alcohol in Anchorage
200	31650-52	Nov.15		Genest	CAGPL	Native society incapable of subsisting adequately on income from trapping, wage employment at Arctic Bay, Inuvik
203	32239-41	Nov.18		Bell	NWT IB/MA	Dene do not prefer wage economy

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XXI	2523	Mar 19	YK	Mercredi	Citizen	Need to know necessary resources and technologies before settlement can be made
XXXV	4650	Apr 23		Washee	NWT IB/MA	Role of Inquiry in presenting views
44	5812	May 23		Bell	NWT IB/MA	Status of claims in N.W.T.
45	5900	May 24		Genest	CAGPL	Aklavik community hearings
47	6251-62	June 3		Gourdeau	EPB	Alaska compensation; Quebec government agreement; Nishka case
49	6578-82	June 5		Horte	CAGPL	Native participation in construction pending settlement
C-I	17 31	Apr.2	Aklavik	Furlong Husky	Citizen Citizen	Individual concern for land settlement Individual concern that land remain with the native people
C-II	68-69 75-77 114-16 138	Apr.3		Greenland Norbert Stoor Thrasher	Citizen Citizen Citizen Citizen	Land claim before development Chance to return to traditional way of life No development before settlement Native people lived on land for hundreds of years
C-4	237 270-280	May 28	Hay River	Lennie Lantz	Citizen Citizen	Pipeline route through traditional lands For the benefit of all northerners
C-6	512-525 592-593	May 30 May 31		Nahanni D.Sonfrere	NWT IB/MA Citizen	Indian Brotherhood doing research into traditional hunting, trapping and fishing areas Indian Brotherhood; need land for hunting, trapping and fishing
C-7	600-01	June 24	F.F.	G.Kodakin	Citizen	Settlement before any major development
C-8	732 737-39 744-45 752 767	June 25		D.Gully Tanoton J.Naedzo G.Kodakin L.Tanoton	Citizen Citizen Citizen Citizen Citizen	Settlement before any major development Area of land requested For future generations Land claim settlement before development Wanted for future generations
C-9	804-05 829-33	June 26		R. Savi G.Kodakin	Citizen Citizen	Asking for 450,000 square miles Want to maintain traditional way of life
C-10	867 884 903-04 917-22 926 951 964-65	June 27	F.N.	T. Blonden R. Hardy P. Macaulay D. Yakaleya A. Lennie F. Andrew A. Lennie	Citizen Citizen Citizen Citizen Citizen Citizen Citizen	Treaty, natives wish land returned Settlement, chance for native people to control land Settlement before any development Settlement before construction commences Land settlement needed for native people to survive impact of pipeline Land settlement before pipeline construction Settlement; native way of life
C-11	1046-47	July 8	F. McP.	(Elwood) (Workman)	Foothills CAGPL	Position of CAGPL and Foothills on land claims settlement
C-12	1111 1135	July 9		D. Itsi M. Kendi	Citizen Citizen	Need for native control over seismic drilling work Native people opposed to pipeline

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C-13	1180	July 10	F McP	N. Colin	Citizen	Government does not understand natives' position
	1190			R. Nerysoo	Citizen	Settlement needed
	1222			R. Carroll	Citizen	No development before settlement
	1245			J. Martin	Citizen	Wanted for younger generations
	1247			J. Martin	Citizen	No support from new minister, J. Buchanan
C-14	1331	July 11	O.C.	C. Abel	Citizen	Settlement before decision about pipeline
	1337			J. Moses	Citizen	Settlement before decision about pipeline
C-15	1430-31	July 12		A. Peters	Citizen	Settlement needed in the Yukon
C-16	1506-08	July 13		R. Bruce	Citizen	Should be settlement before pipeline begins
	1555-56			C. Abel	Citizen	Should be settled before pipeline begins
	1568			R. Charlie	Citizen	Land settlement before pipeline begins
	1631			A. Abel	Citizen	Claims should be settled before pipeline begins
C-17	1689	July 16	F.L.	W. Betthale Jr.	Citizen	Claims should be settled before pipeline begins
	1734-55	July 17		P. Nahanni	Citizen	Government claims land as crown land
	1759-60			E. Dean	Citizen	Native employment, relationship between pipeline and land settlement
52	6937-38	Aug. 12	WH	Williams	CAGPL	U.S. gov't concessions to native claims in route allowance to Alaska Arctic Gas
53	7063	Aug. 13		Trusty	CAGPL	Effect of alternate routes on land claims
	7184-92			Joe	CYI	Yukon Indians - settlement before development
	7248-58			Wah-Shee	NWT IYMA	Implications of alternate routes
	7269-70			Thompson	CARC	Support by Arctic National Wildlife Range proponents for native land claims
54	7461	Aug. 14		Weeden	CARC	Alaskan Native Claims settlement act
	7573-74			Weeden		Alaska; obtaining right-of-way through native lands; Northway Tetlin Indian Reservation; land holding rights
C-18	1768-79	Aug. 5	FGH	T'Seleie	Citizen	Rights of the Dene people and nation
	1780-81			G. Barnaby	Citizen	Aboriginal rights
	1802			J. Kakfwi	Citizen	No pipeline until land claims settled
	1803			M. Lafferty	Citizen	No pipeline until land claims settled
	1812			A. Wilson	Citizen	No pipeline until land claims settled
C-19	1834-45	Aug. 6		S. Kakfwi	Citizen	No pipeline until land claims settled
	1850-51			Blair	Foothills	Foothills policy re: settlement
	1866-67			J. Louison	Citizen	Settlement Council at Fort Good Hope rejects land use permits until claims settled
	1885			T' Seleie	Citizen	
	1889			C. Edgi	Citizen	No pipeline before land claims settled
	1899			L. Jackson	Citizen	Need for training of natives for future
C-20	1930	Aug. 7		G. Scott	Citizen	Wish that land settlement precedes any pipeline
	2019-20			F. Barnaby	Citizen	Whites support native land claim
	2023			L. Pierrot	Citizen	Settlement before pipeline
	2038			E. Cook	Citizen	Settlement before pipeline
	2063-64			A. Rabisca	Citizen	Settlement before pipeline
	2072-73			G. Barnaby	Citizen	Settlement before pipeline
C-21	2095-96	Aug. 9	NW	G. Monuik	Citizen	Government should settle
	2107			G. Loomis	Chamber of Commerce	Government should settle
	2130-31			C. Barnabe	Citizen	Government should settle
C-22	2294-95	Aug. 11	WH	P. Delaney	Citizen	Letter from B. Webb, Yukon Assoc. of Non-Status Indians
C-23	2296-97	Aug. 14		A. Cabret	Citizen	No pipeline before settlement for Dene
	2333-40			R. McCandless	Citizen	Support of native stand
	2348			I. Warner	Citizen	Government will proceed with pipeline
	2351			C. Taylor	Citizen	Support for settlement of Yukon Conservation Society

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C-23	2367-68	Aug. 14	WH	A. Cuvret	People & Land Committee	Land claims must precede pipeline
	2389-90			B.Cooper	Citizen	Land issue not yet determined
61	8604-05	Sept.15	YK	H.L. Stevens	U.S.W.A.	Land rights should be settled before pipeline construction
	8610			R. Garlick	U.S.W.A.	Native land claims must be settled before pipeline can proceed
76	11170-71	Oct.21		Weeden	CARC	Alaskan Native Claims Settlement Act; land set aside for parks, refuges, wild and scenic rivers
	1121-24			Weeden Parker	CARC	Settlement of native land claims in Alaska, background and development of native claims; Rampart Dam controversy; land use planning
	11234-40			Weeden		Alaska land claims settlement; North Slope Native Corporation; hire natives re: Alyeska
95	14523	Dec. 3		Veale	CYI	Interest of the Yukon Indians re Fairbanks corridor; land claims settlements
101	15442	Dec.11		Peterson	CARC	IBP position re: native land claims
106	16186	Dec. 18		Lent	CARC	Alaska Native Claims Settlement Act re: potential oil and gas reserve
108	16419-20	Jan. 13		Gourdeau	EPB	James Bay settlement; impact of construction prior to land claims settlement
	16459			Gourdeau		Native peoples should play a larger role in game management
	16525-26			Gourdeau		Settlement; social impact
	16569-70			Berger		Land claims settlement; land use planning
109	16584	Jan. 14		Templeton	EPB	Claims part of planning process; planning no attempt to preempt the claim
	16587			McT-Cowan	EPB	Settlement of native land claims important element in the land use planning process
	16732			Veale		Negotiations in Yukon of land claims
C-24	2397	Aug. 23	TL	E. Jumbo	Citizen	Deal with land claims before pipeline
	2406			E. Jumbo		Settle land claims before pipeline
	2429-34			Hushion Rowe	Foothills CAGPL	Pipeline construction and scheduling; settlement of native land claims
C-25	2503-11	Sept. 8	FS	Black	Citizen	Settlement must consider non-Indian, non-Metis native northerners, education program needed; applicant land requirements
	2554			Posset	Citizen	Position of Catholic Bishops
	2565-67			Ivans	Citizen	Land value
	2577-80			Casavant	Citizen	Settlement, compensation
C-26	2620-29	Sept. 9		Antoine	Citizen	Treaty II re: land claims; land settlement before pipeline; return to traditional ways - back to land
	2646-47			Lafferty	Citizen	Peace treaty threatened by internal forces; broken promises re: disturbances, hatred
	2651-54			Paullette	Citizen	Indians deprived of rights re: land claims; efforts to regain land - militancy; broken treaties; Indians fight for rights
	2660			P. Nahanni	Citizen	Land settlement re: constitution being worked out
	2663			B. Menicoche	Citizen	Support and belief re: land settlement before pipeline
	2674-75			Norwegian	Citizen	Land claims settled first - deal made
	2676			Chalo	Citizen	Unkept promises re: 1921 Treaty
	2718			L. Antoine	Citizen	Support of land claim re: settlement
C-27	2730	Sept. 10		Hammond	Citizen	James Bay Project - Cree Indians lost land
	2766-68			Paullette Workman Rutherford	Citizen CAGPL Foothills	Demand for company position; settlement before pipeline
C-28	2801	Sept. 10	Wr	G. Hardisty	Citizen	Settlement before pipeline
	2807-10			Antoine		Compensation re: unsuitable land settlement

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C-28	2809	Sept. 10	Wr	Sale	Citizen	Results of signing land treaty
	2815			V. Hardisty	Citizen	Ownership of land
	2816			R. Moses	Citizen	Settlement of claims
	2820			M. Nayally	Citizen	Settlement of claims re: ownership
	2828-29			E. Hardisty	Citizen	Settlement of claims re: land ownership
	2834			Lousson	Citizen	Land claim settlement before northern development
C-29	2863-68	Sept. 12	JMR	Kazon	Citizen	Reserves; land settlement - compensation
	2870			Kazon		Columbia River Treaty
	2872-73			Lafferty	Citizen	Settlement, aboriginal land use
	2879-80			Norwegian	Citizen	Treaty fostered lack of trust in government
C-30	2947	Oct. 6	PP	Milan	Citizen	Settlement of claims
	2971			Reed	Citizen	Settlement prior to pipeline decision
C-31	2976-77	Oct. 7	FR	Sayine	Citizen	Settlement of claims
	2986			Boggins	Citizen	Settlement of claims, pipeline issue
	2995-96			M. Beaulieu	Citizen	Recognition of Dene land
C-32	3041	Oct. 8		Slavic	Citizen	Attempts of Indian Association of Alberta to put land claim on Syncrude Tar Sands
	3047-48			Slavic		Control of land at Syncrude Tar Sands, frustration with government re: claim
	3057			Turner	Citizen	Settlement will ease oppression of Indian
	3059			Mandeville	Citizen	Must be settled
	3069			McConnell	Citizen	Settlement of claims to gain control
	3073-75			Boggins	Citizen	Relationship of natives with land
C-32	3094	Oct. 8	FR	McConnell	Citizen	Settled before construction on pipeline or corridor
C-33	3106	Oct. 9	FS	Evans	Citizen	Aboriginal rights settled before construction
	3142-43			Berger Mirosh Carter	Foothills CAGPL	Settlement before or after construction
	3157			Mercredi	Citizen	No development until land claims are settled
	3168			Stevenson	Citizen	Support of native land claims
	3212-13			Berger		Land claims settled in case of an oil spill
	3219			Caduski	Citizen	Land claims and aboriginal rights settled re: control to northern people
	3228-30			Cheezie	Citizen	Settled before development
C-34	3313	Oct. 15	YK	Keener	Citizen	Settled before contract awarded
	3341-42	Oct. 16		McRae	Citizen	Settled before construction
	3370			Pollock	Citizen	Pre-requisite before construction
	3379-80			Foster	Citizen	Aboriginal rights of native people re: land claims
C-35	3399	Oct. 22	LI	Wheeler	Citizen	Alyeska land claim settlement
	3429			Martine	Citizen	Settlement of land claims prior to pipeline
	3438			Watson	Citizen	Development delay period to settle land claims
C-36	3483	Jan. 28	In.	B. Allen	Citizen	Land claims settlement to ensure planned, controlled development
	3494			Adam	Citizen	Just settlement of land claims
	3504	Jan. 29		Burrell	Citizen	Foothills' policy
	3511			Workman	CAGPL	CAGPL position
C-37	3599-602	Feb.10		Usher	Citizen	Need for a land claim settlement which transfers power, control to natives; impact of unjust settlement
	3609-11			Cardinal	Citizen	Land claims issue - impact on business investors, native views on development
C-38	3640-43	Feb.12		Alonik	Citizen	Foothills position on land claims settlement and pipeline construction
	3651			Burrell	Foothills	Land, resource ownership and royalty payments
	3691-92	Feb.15		McNeely	Citizen	Social impact of failure to settle land claims

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C-39	3704-	Feb.18	IN	Robertson	Citizen	Influence of town on claims; influence of claims on town
	3717-18			Hill	Citizen	Just and early settlement; development with settlement
	3737-39			Kisoun	Citizen	Fair and just settlement before development, support
	3802			Thrasher	Citizen	Land claims settled, development
116	17696-97	Jan.24		L.Pederson	Citizen	Does not want claims to interfere with northern development
	17744-45			Koe Berger	Citizen	Settlement of land claims, not land development
117	17951	Jan.26		Bell	NWT-IB/MA	Reference to testimony of Eric Gourdeau
118	18027-28	Jan.27		Bayly Horsfield	COPE/ITC GPC-D-I	Effect of land claims on well spacing
123	18750-51	Feb. 12	IN	Yates Elkin	MVPI MVPI	Relationship between regional planning and settlement of native land claims
	18819-23			Yates Elkin		Incorporation of land claims settlement into Delta regional plan
135	20409-10	Mar. 25	YK	Berger Bayly	COPE/ITC	Land claims before development so natives will have some control of development
136	20603-04	Mar. 26		Berger		COPE'S position on land claims before development
143	21756-58	Apr. 14		Manuel	NIB	James Bay; native rights treaties in other parts of the world; treaties in southern Canada
	21761-75			Manuel		Southern treaties; rights under the BNA Act; need for NWT land claims settlement
	21780			Manuel		Need land settlement before the pipeline commences
	21789-801			Cardinal	IAA	Concept of "nation"; BNA Act
	21808-29			Fumoleau	NWT IB/MA	Historical development of N.W.T.; events leading to the signing of Treaties 8 and 11; governmental conflict
	21837-41			Fumoleau		1937 Fort Resolution Boycott of annual treaty day; government response to demands
143-A	21851-67	Apr. 14		Russell	NWT IB/MA	Dene proposal for recognition of historic homeland; question of timing of settlement
	21876-77			Russell		Area encompassed by claims in the Yukon, NWT
	21880-81			Russell		Timing of settlement and pipeline construction
144	21883-94	Apr. 15		Sanders	NWT IB/MA	Colonial settlement of land; methods of acquiring territories; colonial legal system; Land Cession Treaties; Treaty of Waitangi in New Zealand, 1840; legal question of method of settlement used in North America
	21895-902			Sanders	NWT IB/MA	Legal question of survival of rights from the pre-contact period; early recognition during times of colonial conflict; early legislation, treaties
	21903-07			Sanders		Process of land cession treaties; federal treaties 1-11; early treaties in southern Ontario, early treaties of Governor Douglas, southern Vancouver Island; Robinson Treaties of 1850; events leading to signing of prairie treaties
	21913-17			Sanders		New Zealand Treaty of Waitangi; settlement of Metis claims in Alberta; means of resolving questions of aboriginal land title claims
	21921			Sanders		Recognition of Indian title by the Hudson's Bay Company; Selkirk Treaty in southern Manitoba; Hudson's Bay Company treaties on Vancouver Island
	21935-37			Sanders		Manitoba Metis Claims
	21939-47			Sanders		Grants to Six Nations Indians; Treaties of peace and friendship in the Maritime Provinces; Treaty of Waitangi, New Zealand, 1840; land cession in Fiji, United States; subsurface rights
	21950-51			Sanders		Question of collective ownership; signing of treaty ends the right to use and occupy land
	21957-64			Sanders		Treaty of Waitangi, New Zealand; Land Titles Commission, New Guinea

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144	22002-08	Apr. 15	YK	Barnaby	NWT IB/MA	Land claim is intended to gain recognition for Dene way of life	
	22011-23			Kurszewski Cheezie	NWT IB/MA NWT IB/MA	Native people not involved in decision-making process; need land claims for self-determination	
	22066			Bean	NWT IB/MA	With land claim goes claim to develop own institutions	
	22075-76			Barnady		Area of land to be claimed	
145	22106-13	Apr. 26	YK	Brownstone	NWT IB/MA	Assistance given by Oxfam; Dene wish for continuing role in planning, developing their land	
	22148			Clarke	NWT IB/MA	Church support for land claims settlement before pipeline construction	
	22167-73			Brownstone		Question of degree of control over aboriginal lands, extent to which would be subject to measures such as expropriation	
	22185-95			Clarke		Need for land claims settlement before any industrial development	
146	22241-54			McCullum	NWT IB/MA	Land claims of Nishga people in B.C.; Cree claims in Northern Manitoba, James Bay, Quebec	
	22261-62			McCullum		Pipeline prior to land settlement will prejudice claim of Dene peoples	
	22269-74	Apr. 27		Jones	NWT IB/MA	Claims of Git-shan people of Upper Skeena River Valley; conflict with railway, highway, forestry projects	
	22279-310			Richardson	NWT IB/MA	James Bay hydroelectric project, negotiations and settlement of land claims; details of settlement	
	22322			Young	NWT IB/MA	Native people should not allow a major project to begin before native land claims	
	22330-47			Page	NWT IB/MA	Metis, Indian land claims on the prairies, time of Manitoba Red River uprising, Riel Rebellion; effects of building of C.P.R.	
147	22355-58	Apr. 28		Page		Metis claims, Red River and Saskatchewan; granting of scrip	
	22399			Page		Settlement of land issues, Manitoba, 1869-70, Saskatchewan 1885, Louis Riel	
	22412-13			Richardson		James Bay agreement, reluctance of Quebec government to allow native settlements around mouths of James Bay Rivers, which would prevent development	
	22429-30			Richardson		Impact of James Bay agreement, Grand Council of the Cree	
	22467-69			Young	NWT IB/MA	Settlement issues evolving from river damming by Manitoba Hydro, natives, DIAND, Manitoba government	
	22485			Nahanni	NWT IB/MA	N.W.T. Court of Appeals, natives unable to register claim on unpatented or unsurveyed land	
	22493-504			Nahanni		Study made on: Land Use and Occupancy Research, N.W.T., to provide information for land claims	
	22510			Nahanni		Land settlement, to allow Dene to re-establish control over education	
	22521-22			Nahanni		Statement by Buchanan regarding Dene preparation for land claims	
148	22610-12	Apr. 29		Nahanni		Pipeline construction without prejudice to the land claims of the NWT IB/MA	
	22660			Rushforth	NWT IB/MA	Bear Lake people signed Treaty 11 at Fort Norman, 1921,1922	
	22702			Asch	NWT IB/MA	Land claims exception to the problems of the north which can be defined as surface	
	22711-12			Asch		The land claim is an attempt to find a solution to a range of problems	
	22731-37			Asch		Dene solution to problems is to settle land claims first	
149	22748	May 3		Ritter	NWT IB/MA	Supporting evidence provided by land use, place name studies carried out	
150	22862-65	May 4		Hills	NWT IB/MA	Treaties, rarely understood by aboriginal peoples	
	22867-72			Hills		Australia, Woodward Commission on land rights of Aborigines; Guyana Lands Commission, attempts to establish reservations, land needs of Amerindians	
	22884-86			Hills		Amerindian Lands Commission	

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	22967-71			Bell	NWT IB/MA	Should be no ROW permit granted until lands claims are settled
	22993-95			Bean		Foothills acknowledge native land claims should be settled
	23002			Bean		Dene want opportunities to develop their own alternatives
	23161-62			Jacquot	CYI	Tlingit-Halde Association, attempt to gain settlement
	23165-66			Smith	CYI	Main purpose of CYI is to negotiate a settlement
	23189-203			Lueck	CYI	Negotiations with federal government
152	23275-78	May 6		Berger		Explanation of native position on issue
	23297-313			Goudge Berger Bayly Veale	MVPI COPE/ITC CYI	Discussion - addressing the question of prejudice re land claims
	23336-37			Notti	CYI	Alaskan strategy - land claims issue
	23344-71			Notti		Summary of Alaska Native Claims settlement Act; use of land freeze during claims negotiation; formation of corporate structure associated with Act; Act failed to give Alaska natives political control over land, special hunting or fishing privileges, regional corporations, land taxes
C-40	3811-12	Feb.23	AK	Sittichinli	Citizen	Compensation for oil taken from native land, percentage of oil
	3814			Husky	Citizen	Land settlement, does not want to give up land
	3852-54			Furlong	Citizen	Settlement before pipeline; time to develop claims, ten years
	3857			Kendi	Citizen	Settlement first, then pipeline
	3860			Greenland	Citizen	No development before land claims
	3886			Thrasher	Citizen	Land claims settlement, as much as possible for native peoples
C-41	3927	Mar.3	HOL	Memoganak	Citizen	Settlement with native consultation
	4011			B. Goose	Citizen	Settled before pipeline
	4012			J. Kuneyuna	Citizen	Land use maps
	4013-15			W. Goose	Citizen	Settlement
C-44	4190-91	Mar.8	TUK	J. Steen	Citizen	Settlement before pipeline; development while waiting for settlement
	4195			Freeman	Citizen	Fear of hostility while waiting for land claims settlement
	4203			V. Steen	Citizen	Land will be shared with white man
	4226			Potiak	Citizen	Settlement of land claims, something to rely on
	4281	Mar.9		Noksana	Citizen	Settlement of land claims
C-45	4377-79	Mar.10		Anderson	Citizen	Tuk Council supports land claims, ownership of land, prejudice
	4408-09			H. Gruben	Citizen	Inuvik excluded from land claims
	4413-15			Raddi	Citizen	Clearing up misunderstanding of Inuvik not included in land claims
C-46	4485-86	Mar.11	PAUL	R. Kirby Hnatiuk	Citizen GPC-D-G	Effect of drilling on land claims settlement
	4519-20			E. Ruben	Citizen	Protection of land
C-47	4534	Mar.13	ARR	N. Natsie	Citizen	Settlement of lands before pipeline
	4536-41			R. Andre	Citizen	Natives sold land by signing treaties, ownership disputed, control
	4552-53			N. Norbert	Citizen	Land claim settled before pipeline
	4570-71			E. Nazon	Citizen	Ownership of land
	4591-92			A. Andre	Citizen	Does not want money as settlement
	4595-96			L. Andre	Citizen	Will not take money for settlement
	4596			A. Andre		Signing of Treaties 8 and 11 as peace treaties

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	4630-35			W. Simon	Citizen	Government and natives should settle claims quickly
C-48	4667	Apr.30	FS	W. Applewhite	Citizen	Supports settlement, then development
	4671-85			G. Kurszewski	Citizen	Fitz-Smith Metis Council supports claims settlement before development
	4691-92			F. Paulette Burrell Rowe	Citizen Foothills CAGPL	Foothills supports just land settlement before pipeline; CAGPL will build whether land settled or not
C-48	4740-42	Apr.30	FS	M. Beaulieu	Citizen	A just land settlement before development
	4751-53			F. Paulette	Citizen	Will determine future of Dene in NWT, Buchanan is rushing people into settlement; development is destruction
C-49	4775	May10	VAN	Maultsaid	Citizen	There should be no right of conveyance to any pipeline until land claims have been agreed upon in principle
	4781-82			Deroo	Citizen	Respect of human rights
	4795			Gallon	Citizen	With settlements, hope that natives will not become promoters, developers themselves
	4817-20			Rankin	Citizen	Nothing to be done before land settlements made
	4829-30			Wilson	Citizen	Land claims is a means for native survival
C-50	4853-54	May11		Cook	Citizen	Nishga land claims, Native Brotherhood supporting land settlement issues
	4855-59			O'Brien	Citizen	Settlement of land claims before pipeline construction
	4868-69			Gillie	Citizen	Settlement to preserve native culture
	4882-83			Shaver	Citizen	Delay pipeline construction till land claims settled
	4898-4903			Paul	Citizen	Native sufferings from sharing land, cultural differences in land ownership; plea for survival
	4921-22			Burrow	Citizen	Land settlement, way to bring natives into economic, social and political mosaic of Canada; preserve their culture
	4961			Obedkoff	Citizen	Recommending recognition of land claims
	4970-71			Simmons	Citizen	Land claims are a past debt owed by Canadian society to natives
	4988-92			Tanenbaum	Citizen	Support for native land claims, belief that Federal Government will not respect rights
	5001			Antonides	Citizen	Observance of land claims as set out by the Dene Declaration
	5014-18			Clark	Citizen	Native self-determination of land use
	5020-24			McCall	Citizen	Basic moral right to land; Inuit Dene demands
	5027			McDougall	Citizen	Land claim settlement to give economic and political control to native people
	5036-42			Sturm	Citizen	Land claims issue is struggle for survival
	5047-49			Morrison	Citizen	Native people to determine their fate after settlements
	5055-56			Potts	Citizen	Treaty 8, 1899-1900, Treaty 11, 1921
	5073-75			Antoine	NWT IB/MA	Issues of land settlement; signing what was thought as peace treaty
C-51	5083	May12		Mrs. Rose Charlie	Citizen Citizen	Support from Indian Homemakers Association of British Columbia
	5100-01			J. Stokes	Citizen	Nishka claims, Bristish Columbia
	5107-15			J. Stokes		Support of Anglican Diocese of Caledonia
	5120			A. Hagen	Citizen	Decision needed before pipeline begins
	5125-27			B. Eriksen	Citizen	Support from Downtown Eastside Residents Association
	5136-43			H. Crosby L. Hurst	Citizen	With recognition should come self-determination
	5166-67			G. Watts	Citizen	Need for settlement
	5185-92			P. Chataway	Citizen	Support from BC Environmental Council
--	5199-5201			L. Berry	Citizen	Need for settlement whether or not pipeline is built

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C-52	5226	May13	CAL	R. Sykes	Citizen	Opposition to claims
	5235-36			J. Poyen	Citizen	Delay due to negotiations, effect on development of reserves
	5245			M. Prior	Citizen	Claims to royalties, hunting, trapping, fishing rights
	5251-52			Father Gauthier	Citizen Citizen	Need for appraisal of all claims in the area
	5256-58			E. Reid	Citizen	Rights to land, lack of acknowledgement
	5267-73			Chief Snow	Citizen Citizen	Claims of Stoney people, Kootenay Plains; signing of Treaty 7
	5285-86			N. Llanos	Citizen	Land titles never willingly relinquished by natives
	5322-23			R. Potts	Citizen	Need recognition of hunting, trapping, fishing rights, royalties for mineral resources
	5355-60			J. Binnema	Citizen	Need for more time
	5400			J. Ryan	Citizen	Need for settlement; previous agreements; treaties still binding
C-53	5425-37	May 14		Getty	Citizen	Stoney Indians present at signing of Treaty Number Seven, did not see all promises carried out
	5457-58			Donovan	Citizen	How the Spanish government dealt with land claims in the 16th century
	5470-86			Cudby	Citizen	Issues evolving around the past and future development in land claims and treaties
	5495			Tyler	Citizen	Settlement should be made before any pipeline
	5505-07			Greyeyes	Citizen	Settlements must begin with control over future developments, political self-determination
	5517			Nickle	Citizen	Urgency to obtain northern gas would prevent land claims to be fully negotiated before construction of pipeline
	5556-57			Willms	Citizen	Ownership of land, basis for autonomy, free from dependence on Federal Government
C-54	5587-90	May 17	EDM	Mckenzie	Citizen	Supporting land claim settlement
	55923-99			Leadveater	Citizen	Request to government to halt development till land claims settled
	5646-52			Kuhn	Citizen	Settle land claims before development, give adequate space for native exclusive use
	5655			Dickinson	Citizen	Imposing injunction on construction, James Bay project, pending land claim settlement
	5680-84			Schommer	Citizen	Asking for fair consideration of land claims
	5688-99			Leeson	Citizen	Interest in land, should not be for profit only
	5708-09			Bannista	Citizen	After pipeline construction, no reason why land should not be usable as before
	5713-14			Starr	Citizen	Natives should not have to justify their claims
	5723-33			Robertson	Citizen	Move for just land claims with native development control
	5742-47			MacDonald	Citizen	Land claims should be met
C-55	5765-66	May 18		K. Charest	Citizen	Dene claiming 450,000 square miles
	5781			J. Barry	Citizen	Objection to delay; intelligent economic development
	5839-40			S. Johnson	Citizen	Reduction for chances if settlement as land values increase
	5884			E. Kennedy	Citizen	Settlement before commencement of construction
	5935-41			B. Farrell	Citizen	Negotiations before further exploration, construction
	5945-48			T. Turner	Citizen	Establishment of Cold Lake Forces Base, set up of nearby Indian reservation
	5960			K. Vandergrift	Citizen	Possible legislation of legal title
	5970-72			E. Ulmer	Citizen	Settlement, aid in protection of the environment
	6010			J. McFarlane	Citizen	Reasonable settlement, avoidance of injustice

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	6035-36			M. Schubert	Citizen	Ruling of Judge Morrow; Treaties 8 and 11
	6054-56			N. Starblanket	Citizen	No pipeline until satisfactory settlement
	6058-66			J. Pilling	Citizen	Settlement prior to any development
	6067-73			P. Gallagher	Citizen	Granting of aboriginal titles; settlement prior to approval of application
	6088			C. Stewart	Citizen	No further development until settlement reached
C-57	6151-52	May 20	WIN	B. Valentine	Citizen	Synod of Diocese of Ruperts Land supports land claims
	6163			K. Johnson	Citizen	Settled before development
	6175-76			S. Kuehn	Citizen	Urged not to hurry settlement if not in best interests
	6187			A. Lansdown	Citizen	Settlement before pipeline development
	6197-99			F. Bonokoski	Citizen	The Congregation of Our Lady of the Missions favours settlement of claim before development
	6202-03			J. Mackenzie	Citizen	No industrial development until land claims are settled
	6212			J. Ryan	Citizen	Issue of land claims recognized
	6230-32			M. Haave	Citizen	Intercultural Development Education Association supports land claims issue
	6249-50			H. Spence	Citizen	Treaty no. 5 (1875), natives moved to reservations
	6254			Waddell	MVPI	Letter from Manitoba Indian Brotherhood, no major development until land claims settled
	6257-59			A. Spence	Citizen	Expropriation of reserve land for hydro-electric development, treaty of 1875; support land claims
	6266-67			B. Teixeira	Citizen	Impingement of Manitoba Government on land settlement of Treaty 5 re Northern Manitoba hydroelectric development project; support for claims settled before northern development
	6289-90			R. Johnstone	Citizen	Quotes from Treaty 8, rights to traditional ways of life
	6292-93			R. Johnstone		Preservation of aboriginal rights
	6297			M. Nixon	Citizen	Claims resolved before development
	6299-302			B. Stearns	Citizen	Agreement of claims before pipeline
	6303-			W. Close	Citizen	No development until claims are settled
	6307-09			Head	Citizen	Legitimacy of claim, aboriginal rights
C-58	6332	May 25	TO	B. Massman	Citizen	Just settlement, to secure control of economic development
	6335-36			R. Recollect	Citizen	Government must recognize issue
	6343-45			F. Fairchild	Citizen	Settled before pipeline construction
	6357			J. Robinson	Citizen	Settlement before development
	6364			S. Casey	Citizen	Settlement before development
154	23559-73	June 29	YK	Puxley	NWT IB/MA	Alaska settlement, colonialism; Dene settlement, need for Dene development
	23575			Watkins	NWT IB/MA	Pipeline Companies, belief that project can begin before settlement
	23584			Watkins		Corporations, extinguishing native title
	23612-18			Watkins		Government decision; misunderstandings, terms used
	2360-31			Watkins		Opportunity, settlement before commencement, major project
155	23684-87	June 30		Watkins		Land settlement, conversion of title
	23692-93			Watkins		Possible cash portion of settlement, investment in pipeline

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	23762-91			Forrest	NWT IB/MA	Alaska land settlement; support from oil industry; negotiations, role of State, Federal governments; Alaska Natives Claims Settlement Act
	23792-94			Forrest	NWT IB/MA	Alaska Natives Claims Settlement Act, corporate structure, power struggles
	23794-816			Forrest		Alaska Natives Claims Settlement Act, Creation of corporate structure; no protection from expropriation
	23816-30			Forrest		Alaska, establishment of regional corporations, lack of state-wide body; land selection system; cash portion, royalties; settlement with Hingits, Haidis
156	23950	Jul 1		Overvold	NWT IB/MA	Further development of present education system would prejudice land claim settlement
	23985-87			Berger		Cultural survival of Dene dependant on control of education after initial land claim settlement
C-59	6401	May 26	TOR	A. Powis	Citizen	Need for beginning of negotiations prior to construction
	6409			N. Zlotkin	Citizen	Treaty 9, Northern Ontario
	6416			N. Zlotkin		Natives must control land, destiny
	6419			J. Meakes	Citizen	Need for early and equitable settlement
	6433-35			S. Acheson	Citizen	Policy paper, Ontario Federation of Labour, support for claims
	6457-63			W. Kashton	Citizen	Natives not opposed to development, want settlement first
	6542-45			W. Gallop	Citizen	Land, aid in meaningful control of their land
	6573-87			L. Little Bear	Citizen	Court cases dealing with native land title
C-60	6620-22	May 27		E. Burton	Citizen	Sufficient time for settlement, prevention of delay in construction
	6652-58			Sister Corinne	Citizen	Support from School Sisters of Notre Dame
	6659-67			M. Bell	Citizen	Halt on development until settlement
	6669-75			E. Welsh	Citizen	Resolution before construction begins
	6684-91			J. Marshall	Citizen	No construction until settlement; guarantee of self - determination
	6689-92			R. Obonsawin	Citizen	Support from Native Canadian Centre; need for land in order to maintain culture
	6704-10			Father M. O'Kane	Citizen	No large-scale development until open-minded government negotiations
	6714-20			D. MacKenzie	Citizen	Moral and legal basis, Treaties 8 and 11
	6725			B. Mather	Citizen	Settlement before construction of any facility - pipeline, railroad
	6731-34			J. Hardy	Citizen	Mandatory to have negotiations, land claims
	6739			S. McLean	Citizen	James Bay agreement; aboriginal title, signing of Treaties of 8 and 11
	6749-50			V. Horte	CAGPL	CAGPL support of settlement at earliest possible date
	6763-67			S. Fox	Citizen	Need for government priority, land claims settlement
	6773-76			M. Arbour	Citizen	Canadian tradition of treaty making; settlement with no extinguishment of native ownership of traditional lands
	6778-81			D. Pine	Citizen	Possession of land, recognition by Canadians; opportunity for an economic base
	6790-93			H. Mitchell	Citizen	Native ownership, better regulations of use
	6813-14			H. Fronius	Citizen	Settlement, share in decision-making process
	6825-26			L. Pim	Citizen	Validity of Treaties 8 and 11; native rights to formalization of title

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	6850-51			P. Park	Citizen	Need for settlement for maintenance of culture	
	6857-58			W. Lowes	Citizen	Settlement of Dene, Inuit claims before any development	
	6865-67			P. Kelly	Citizen	Signing of Treaty 3, northwestern Ontario	
C-62	6890-905	May 31	MTL	Claccia	Citizen	Issues under the James Bay Agreement	
	6911-16			Delisle	Citizen	Aboriginal rights, Dene making their own interpretation	
	6955-56			Genest	CAGPL	CAGPL striving for just land claims and native rights before building of pipeline	
C-63	7042-47	June 1		Ford	Citizen	Land claims must be dealt with before development, must not repeat James Bay experience	
				Gourdeau	Citizen		
	7070-72			Chalough	Citizen	Settling land claims crucial if native people are to maintain identity	
	7073-80			Dramond	Citizen	James Bay Agreement	
	7094-99			Hughes	Citizen	Supporting early land claim settlement	
				Boudrias	Citizen		
	7126-29			Kelly	Citizen	Settlement of land claims is first priority	
	7153-63			Penn	Citizen	James Bay Agreement	
C-64	7198-205	June 3	OTT	Amagoalik	COPE/ITC	Inuit have never surrendered their land, it is their home	
	7224-30			Hatton	Citizen	James Bay settlement, example for future settlements	
	7244			Sarpei	Citizen	Land claims to natives, means to secure measure of control over their lives	
	7277-82			Brabozon	Citizen	Pressure to settle	
	7295-97			Roman	Citizen	Native people winning respect and support of southerners re claims	
	7306-09			Manual Mathisen	Citizen	Public opinion as to validity of land claims	
	7320			Harrison	Citizen	Supporting claims	
	7328-33			Edmonds	Citizen	Supporting people affected by pipeline	
	7334-48			Opie	Citizen	Dene must own their land, control decisions affecting it	
	7349-50			Wilder	CAGPL	Settlements should be made whether there is a pipeline or not	
C-65	7386	June 4		J. Lapointe	Citizen	World University Services of Canada supporting land claims	
	7388			L. Jordon	Citizen	No development before settlements	
	7424-29			T. Hills	Citizen	NWT IB approached Oxfam for help in land claim settlements	
	7446			J. Thompson	Citizen	Supporting settlement before any decisions are reached re pipeline	
	7478			F. Jobin	Citizen	Not opposed to development if land claims settled first	
	7484			S. Leggatt	Citizen	Need for settlements before pipeline construction	
	7500-01			A.G. Salvin	Citizen	Expropriation laws should be same in north as in south	
	7503-04			D.B. McLay	Citizen	Supporting land claims before development	
	7512			S. Studd	Citizen	No resource development till land claims settled	
	7516			Father			
				K. Doe	Citizen	Dene Declaration	
	7546-47			S. Loewan	Citizen	Hope that land claims will not be settled as in James Bay agreement, too rushed	
	7548-50			M. Christie	Citizen	Supporting demand for just settlement	
	7556-59	J. Dumont	Citizen	More to land claims issue than treaty rights, role of earth to native people important			
	7568	E. Sutherland	Citizen	No development before settlement			
	7570	D. Oulton	Citizen	Supporting land claims issue			

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C-65	7576	June 4	OTT	M. Wilson	Citizen	Retention of culture possible only through Inuit Tapirisat of Canada, land claims settlement
	7580			J. Shearer	Citizen	Need for settlement, giving native people freedom of choice re development and assimilation
C-66	7646-47	June 7	CH	C. Pinau	Citizen	Until recently, lack of recognition of rights to land claim settlement; settlement before development
	7649			Father J. Cash	Citizen	Money, not principal answer to claim
	7655-56			N. Getty	Citizen	Right to "due process", time for settlement before development
C-67	7672-74	June 8	HAL	C. Mooney	Citizen	Time should be allowed for settlement, supported by Maritime Conference of the United Church of Canada
	7710-12			K. Sherrett	Citizen	Land settlement before pipeline; validity of Treaties 8 and 11, failure to protect Indian people
	7728			P. Keddy	Citizen	Fair settlement before construction
	7738-40			A. Herfst	Citizen	Quote from Calder case re treaties and land rights; claims must be settled
	7745			B. Hollands	CAGPL	Settlement, regardless of pipeline or not
	7763			M. Bradford	Citizen	Must be settled if hope for self-determination
	7769			G. Yetman	Citizen	Settlement supported by Nova Scotia Federation of Labour
	7797			S. Mayo	Citizen	Settlement before pipeline construction
	7802			E. Beale	Citizen	Voice of Women supports land settlement before development
	7808-09			G. Knight	Citizen	No pipeline until land claims settled
	7813			O. Channen	Citizen	Delay construction until claims are settled
157	23992-4001	July 5	YK	Thompson	NWT IB/MA	Settlement prior to development of natural resources; control of resources, colonialism; legality of claim justified
	24005-20			Thompson		Property rights, management rights over mineral resources, joint ownership with crown; settlements in Alaska, Northern Quebec, proposed settlement in Australia
	24027			Thompson	NWT IB/MA	Nunavut Proposal, royalties
	24040-48			Thompson		Federal Government's administration of natural resources without attention to claims; Nunavut Proposal, participation of native people
	24052-56			Thompson Scott	MVPI	Nunavut document, special political status, land ownership, expropriation
	24062-63			Hobart	CAGPL	Benefits from Treaty no. 8 along Mackenzie corridor
159	24455-56	July 7		Boorkman	CAGPL	Relevancy of a land claims settlement
159-A	24537-47			Boorkman		Alaska Claims Settlement Act, consequence of Alyeska; regional corporations
163	25162-66	July 14		Berger		Claims mean measure of self-determination, control over development
	25322-37			Hobart	CAGPL	Conditions, pipeline construction prior to settlement of claims; James Bay settlement
164	25364-68	July 15		Berger Hobart		Problems with implementing Alaskan settlements; problems with establishment of administration, land claims settlement
	25440-44			Hobart		Four conditions, permit development before settlement
167	25923-32	July 21		Usher	COPE/ITC	Need for re-ordering, relations between northern society and the nation
	26064-69			Brody	COPE/ITC	Alternatives, preservation of traditional sector; problems with land selection
168	26177	July 22		Brody		Discussion of claims reviving native interest in maintaining traditional ways

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169	26216	July 23	YK	Stanley	NWT IB/MA	American tribes, treaties sacred part of life
	26315			Ruttan	NWT IB/MA	Requirements that need to be met to develop renewable resource-based economy
	26326-28			Stanley		U.S. experience of land claim settlements
165	25631	July 19		Reesor Berger MacLeod	NWT/AM Foothills	Current impending negotiations between levels of government and native organizations
166	25706-08 25846	July 20		Ellwood Usher	Foothills COPE/ITC	Time needed to settle land claims Settlement would stimulate innovative development
C-68	7826-29 7831-33 7839 7842	July 16	FP	A. Canadien J. Thom F. Elleze J. Bonnetrouge M. Elleze	Citizen Citizen Citizen Citizen	No development until land claims settlement Need for settlement before any development takes place Need for settlement before consideration of the pipeline No pipeline before land claims are settled
C-69	7949-50			I. Thom	Citizen	No pipeline before land claim settlement
C-70	7963-65 7968 7970-71 7985-89 7993	Aug. 9	RE	A. Charlo J. Lacordne V. Thomas E. Murphy	Citizen Citizen Citizen Citizen	Treaty signed by Murphy with government; land claims settled before pipeline No pipeline until claims settled Treaty between Murphy and government Laws made after Treaty signed with Government; agreement concerning land, misinterpreted Native land should not be settled with white people
C-71	8022-23 8026 8027 8038-39 8047-48 8051-52	Aug. 10	RE	G. Blondin A. Lamouelle M. J. Goulet M. A. Tsatchia T. McDermott	Citizen Citizen Citizen Citizen Citizen	Land claim will give them control over schools, development No one is helping them overcome their problems with land claims; Settlement before pipeline Against pipeline until land claims settled Broken treaty promises; no development until claims settled Settled before pipeline
C-72	8068 8070-71 8075-77 8084 8087-90 8102 8110 8114 8121-22 8126-29 8136 8143-45	Aug. 11		G. Erasmus Chief Charlo Chief Charlo A. Arrowmaker A. Arrowmaker T. Blondin E. MacKenzie E. Rabesca J. Migwi J Erasmus A. Eronchi N. Black Berger H. Koyina	Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen	No pipeline until settlement 1921 Treaty between Murphy and government Against pipeline until land settlement; original agreement about Treaty, broken promises Will not agree with pipeline even when land claim is settled Plea to prepare for claims and other development; not deal, but demands Settlement urged No pipeline until claims settled No development until land claim is settled Signing of Treaty with government; government has no title to land; promises not kept History of Treaty 11, terms and conditions Native people weren't involved when first treaty was signed Government's obligation to settle claims with NWT native people;
C-74	8260-61	Aug. 13	RL	A. Gon	Citizen	Koyina opposed to pipeline until claims settled Five dollars for treaty, peace treaty with the Akaitcho

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C-75	8308	Aug. 21	CL	H. Cuzon	Citizen	Consider pipeline only after settlement
	8310-11			I. Cuzon	Citizen	Hopes government protects people as believed, first agreement
	8326-27			D. Shea	Citizen	Settlement before development
C-76	8360-61	Aug. 25	DET	Chief Carlo	Citizen	Ignorant of what signed first time
	8377-79			P. Liske	Citizen	No development before settlement
C-77	8387	Aug. 26		F. Betsina	Citizen	Settlement before development
	8333-90			J. Tobie	Citizen	One day own land, back to traditional lifestyles didn't understand when signed first treaty
	8407-09			S. Abel	Citizen	Background and circumstances of first two treaties
	8420			F. Erasmus	Citizen	Settlement before development
	8421			A. Potfighter	Citizen	Background of first treaty
	8427			A. Potfighter		No development before settlement
	8431			C. MacKenzie	Citizen	Not asking too much for settlement prior to development
	8434			F. Betsina	Citizen	Settlement before development
174	27072-75	Aug. 20	YK	Bayly Sigler Berger	COPE/ITC NWT/AM	Recommendation of municipalities re lands excluded from claims issue so they do not interfere with expansion
176	27388	Aug. 24		Button	COPE/ITC	Freeze development until settled
	27429			Button		Settling before development
180	27861-62	Sept 7		St. Eloi	MVPI	Fair and equitable settlement before construction or at least before operation of pipeline
	27999-8001			St. Eloi Dyck Nessel Whiteford	MVPI MVPI MVPI	Construction completed but not in operation before land claims settled; Dyck, Nessel, Whiteford have no stand on issue
181	28056-57	Sept 8		McCambly	MVPI	Revenues from US to assist in settlements
	28123-24			Reimer	MVPI	Settlement before pipeline, intricate definitions of native ownership
	28150-52			Steeves Berger Bayly	CAGPL COPE/ITC	Clarifying relevance to Inquiry
182	28248	Sept 9		Forth	MHA/NWT	Settlement is indispensable to good mental health of NWT
	28292			McCombs	MHA/NWT	Settlement will provide structure in social and economic baseline
	28350			Forth		Not placing conditions on native of final settlement
184	28438	Sept 14		Atcheson	COPE/ITC	Must be dealt with simultaneously with development plans
	28477			Atcheson		Need honest appraisal
	28480-81			Atcheson		Must be resolved or discrimination will be reinforced, problems
	28519-21			Atcheson Steeves	COPE/ITC CAGPL	Must be dealt with simultaneously with development planning, concept of ownership
	28525-27			Atcheson Berger		Act of good faith to give priority; distrust government, native control
185	28582	Sept. 15		Schaefer	COPE	Settling with large sums of money will produce problems
187	29014	Sept. 17		Bruce	COPE	Canadian government must give ethical response
	29032-33			Bruce		Land claims will not solve alcohol misuse by natives
	29075-76			Falk	NWT IB/MA	Rights of Dene concerning their land; doctrine of self-determination
188	29122-23	Sept. 21		Searle	MVPI	Settlement is recommended
	29126-29-A			Steeves Searle	CAGPL	Participation of council in negotiations of land claims; position of council on Dene claim
	29182-88			Mrs. Worl	COPE	Settlement of Alaskan native land claims; exclusion of natives from General Allotment Act, Homestead Act; Alaska Statehood Act (1958) postponed settlement; Berry's book "The Alaska Pipeline, the Politics of Oil and Native Land Claims"

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188	29191	Sept. 21	YK	Mrs. Worl	COPE	Settlement must have priority	
	29199-203			Neakok	COPE	Alaskan aboriginal land rights; Alaska Native Land Claims Settlement Act	
	29232-34			Neakok		No development until claims settled in NWT	
189	29310	Sept. 22		Hill	NWT/AM	Settlement, compatible with and enhanced by local government; supported by NWT/AM	
	29317			Hill		Economic self-sufficiency will be regained from resource benefits in communities	
	29322-23			Hill		Settlement may conflict with community councils' responsibilities	
	29332-33			Hill		Settlement including title to large amounts of land, title by occupation	
189A	29467			R. Worl	COPE	1971 Alaska Native Claims Settlement Act, creation of corporations to administer land and moneys	
	29539-41			Mrs. Worl Buchholdt Neakok	COPE COPE COPE	Formation of North Slope Borough and Alaskan land claims settlement	
	29557-62			Scott Berger Neakok Buchholdt Mrs. Worl	MVPI	Alaskan land claims settlement, successful in obtaining local government	
	29570-71			Neakok Buchholdt		Offshore drilling rights not included in Alaskan settlement	
192	29994			Oct. 4		Krauss	MVPI
	30057-58	Krauss				Cultural survival depends on settlement of land claims	
193	30187-97	Oct. 5		Templeton	EPB	Two stage approach to approval of pipeline project, land use plan for Mackenzie Valley, northern Yukon	
	30214-16			Templeton	EPB	Federal land use plan must consider land claims	
	30247-48			Templeton		Claims should be settled before formation of zone authority, final project approval; land freeze measures	
196	30769-70	Oct.12		Skinnerland	CARC	Negotiations of James Bay settlement	
198	31382-83			Sterling	MVPI	Native organizations will not discuss employment opportunities on pipeline until claims are settled	
199	31607-08	Oct.15		Berger		His position on land claims; stand of native people	
200	31631-33	Nov.15		Scott	MVPI	Construction of pipeline before land settlement will prejudice settlement of land claims	
	31660-61			Genest	CAGPL	Delay or postponement of pipeline construction could remove necessary pressure on both sides to arrive at a settlement	
	31669-81			Genest		If aboriginal title is subject to sovereignty of Canada, the highest right of owners would be right to compensation; Dene and Inuit positions on claims; pipeline delay will retard achievement of native goals	
201	31809-14			Nov.16		Gibbs	Foothills
	31860	MacQuarrie	MHA/NWT			Claims settlement indispensable to good mental health of territorial residents	
202	31871-91	Nov.17		Bayly	COPE/ITC	No pipeline before land selection, planning; natives must control their land, communities, institutions; legal claim of Inuvialuit to lands, waters; land selection for traditional activities, parks; hunting and fishing regulations, land use planning commission	
	31992-93			Sigler	NWT/AM	Settlement should not be precondition to development	
	32027-28			Thompson	CARC	Questions on claims which commissioner should answer in his report	
203	32072	Nov.18		Anthony	CARC	Claims to land considered for International Wildlife Range in Canada	
	32078			Anthony		International Biological Programme, land claims, rights of native people	

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203	32121-31	Nov.18	YK	Veale	CYI	CYI land claims principle, "Together today for our children tomorrow"; fair settlement will allow native participation; Old Crow land claim; prejudice if pipeline built before claims settled
	32151			Veale		Old Crow community would not constructively co-operate if pipeline built along interior route without claims settled
	32174			Veale		Moratorium until Old Crow claims settled
	32184			Veale		Prime route will prejudice Old Crow claims; no pipeline until claims settled
	32200			Veale		Old Crow claims will be prejudiced by interior or prime routes
	32231-38			Bell	NWT IB/MA	Pipeline will prejudice Dene position
204	32244-52	Nov.19		Hardy	NWT IB/MA	Settlement before pipeline; recognition of Indian rights in NWT, Half-Breed Commission; Cote's report from Dominion Lands Board; aboriginal right claims pressed in court today; economic development similar to Alaskan settlement; do not agree with ten-year moratorium; land central concern of Indian people
	32275-76			Ballem	GPC-D	No reason why pipeline must wait for claims settlement, will not prejudice land claims
	32280-81			Ballem		Ten-year moratorium after land claims will be disastrous to development
	32285-88			Ballem		Confusion between land claims and land settlements; cannot accept that pipeline will prejudice land claims

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XXI	2523	Mar.19	YK	Mercredi	Citizen	Rights and claims settlement
47	6206	June 3		McT-Cowan	EPB	Hunting rights but also responsible for management
C-I	31	Apr.2	Aklavik	Husky	Citizen	Treaty money, land
C-II	68-69	Apr.3		Greenland	Citizen	Metis, non-Status and Treaty Indians General Assembly
	85-86			Sittichinli	Citizen	Treaty payments of five dollars a year per person
	133-35			Bean	Citizen	No recognition for right to self-determination
	136			Thrasher	Citizen	Lack of treaty or agreement between Inuit and Federal Government
C-4	289-290	May 28	Hay River	Demelt	Citizen	Training programs; lower interest rates
C-6	481-576	May 30		Sonfrere	Citizen	Treaty money
C-10	881-	June 27	F.N.	P. Andrew	Citizen	Treaty signed in 1921 seen by native people as peace and friendship agreement
	899-901			H. Gladu	Citizen	Treaty of 1921
C-12	1133	July 8	F. McP.	J. Kay	Citizen	Signing of treaty; control of land
	1137-38			W. Nerysoo	Citizen	Signing of treaty, treaty money
C-13	1151	July 10		L. Vaneltsi	Citizen	Signing of treaty, 1921; money given to native people
	1173-76			P. Thompson	Citizen	Treaty money
53	7062	Aug. 13	WH	Trusty	CAGPL	Degree of knowledge of aboriginal rights
C-18	1768-79	Aug. 5	FGH	F. T'Seleie	Citizen	Claims of the Dene Nation
C-19	1870-71	Aug. 6		F. T'Seleie	Citizen	Native rights and wishes ignored; ignored in land use permit applications
C-20	2072-73	Aug. 7		F. T'Seleie	Citizen	Rights to self-determination
C-21	2137	Aug. 9	NW	C. Tourangeau	Citizen	Treaty of 1921, Treaty payments, Script
C-23	2327-28	Aug. 14	WH	B. Bachelor	Citizen	Talk of a demonstration at hearings
	2333			R. McCandless	Citizen	Alaska natives receive more treaty money from El Paso proposal
105	15989-91	Dec. 17	YK	Stein	CARC	Fishing
C-31	2980-81	Oct. 7	FR	T. Beaulieu	Citizen	Protection of Dene rights vs. industrial expansion

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143	21759-64	Apr. 14	YK	Manuel	NIB	Situation of native people in other parts of the world; BNA Act
	21770-73			Manuel		New World Indians need right to self-determination
	21779-80			Manuel		White Paper of 1969; opposition by native people
	21782-87			Manuel		Situation of native people in other parts of the world
	21789-802			Cardinal	IAA	Concept of "nation"; need for native control of institutions affecting native people
	21808-29			Fumoleau	NWT IB/MA	Events leading to the signing of Treaties 8 and 11
143-A	21871-73	Apr. 14		Russell	NWT IB/MA	Under the B.N.A. Act: Calder case in British Columbia
144	21884-94	Apr. 15		Sanders	NWT IB/MA	Imperial Act of 1858, colonial government for mainland B.C., indigenous property rights; existing political systems, rights before European settlement
	21895-902			Sanders		Court case- Johnson vs. McIntosh, U.S. Supreme Court, question of existence, extent of Indian rights; question of survival of legal rights from the pre-contact period; early recognition during time of conflict between colonial powers
	21906-11			Sanders		Native land holding rights, native customary law; Maori rights in New Zealand; native rights in New Guinea, Fiji
	21912-16			Sanders	NWT IB/MA	In New Zealand, New Guinea, Fiji, institutions for establishing land titles; role of land courts in the legal system; native rights and the acquisition of territory by Canada after 1867
	21923-34			Sanders		Rights under transfer of Rupert's Land, Northwest Territories to Canada; problems with Metis land allotments in Manitoba
	21939-48			Sanders		Need for political sovereignty, political self-determination; subsurface rights
	21950-64			Sanders		Recognition and conversion of native title; characteristics of aboriginal title
	22060-66			Bean	NWT IB/MA	Refusal of governments to recognize the collective rights of the Dene
145	22132-38	Apr. 26		Clarke	NWT IB/MA	Brazil, formation of the National Foundation for the Assistance to the Indians (FUNAI); Indian Statute, 1973, removal of subsoil rights from native people, Brazil
146	22283	Apr. 27		Richardson	NWT IB/MA	Malouf injunction case: negotiations on land claims case in James Bay
	22313			Richardson		Once James Bay project begun, native people could do nothing to stop it
147	22447	Apr. 28		Young	NWT IB/MA	Desire for recognition of rights before pipeline construction, Dene
150	22864-66	May 4		Hills	NWT IB/MA	Variation of rights, different countries
	22880-86			Hills		Amerindians, Guyana; Samoyeds, Siberia; Ainu people Japan
	22896-97			Hills		19th Century, recognition of rights of interior peoples, Brazil
	22960-61			Kurszewski	NWT IB/MA	Right to develop their own institutions, system of government
	22997			Bean	NWT IB/MA	Pipeline applications, no recognition of Dene political rights
C-49	4777-83	May 10	VAN	Deroo	Citizen	Human rights issue
	4821-22			Guy	Citizen	Native rights first priority with respect to northern development
	4832-35			Farquharson	Citizen	Recognition of native culture, land rights
C-51	5139-43	May 12		J. Wight	Citizen	Need for land claims settlement, recognition of rights; Treaties 8 and 11
C-55	5942-44	May 18	EDM	Father F. Croteau	Citizen	Recognition of rights to culture, mentality, way of life
154	23530-46	June 29	YK	Puxley	NWT IB/MA	Dene struggle for recognition; colonial position
	23555-73			Puxley		Dene demand, recognition of political rights; need for decolonization, self-determination

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C-62	6911-16	May 31	MTL	Delisle	Citizen	Aboriginal rights, Dene making their own interpretation
C-63	7020 7073-80 7101-02	June 1		Mountjoy Diamond Boudries	Citizen Citizen Citizen	Native people need to determine their own destiny Identification of aboriginal rights Native people of the south have seen their rights violated in the last 100 years
C-64	7292 7301-07	June 3	OTT	Bregha Manual	Citizen Citizen	Major ethical problem created by proposed development Main issue in north-aboriginal rights
C-66	7642	June 7	CH	P. Ryzowski	Citizen	Priority for preservation of rights rather than resource development
C-67	7733-38 7765 7784-86 7799-801	June 8	HAL	A. Herfst S. Johnson G. Nicholas E. Beale	Citizen Citizen Citizen Citizen	Legality of native land claims; Royal Proclamation of 1763, Dene Declaration re land rights Reserve lands taken away from native people Aboriginal rights, land ownership Rights of native women in NWT; control of land, treaties
184	28526-27	Sept 14		Atcheson Berger	COPE/ITC	Self-government, education, health services, greater control
192	29981-95 29997	Oct. 4	YK	Krauss Krauss	MVPI	Ensuring that native languages continue to exist Dene and Inuit have right to maintain languages, traditions, cultures, must be guaranteed by law
196	30855-56	Oct.16		Thompson	CARC	Legal right of native people to surface use of lands; ownership rights to portions of lands required for pipeline right-of-way
202	31882-91	Nov.17		Bayly	COPE/ITC	Legal claim of Inuvialuit to lands, waters; Inuit hunting rights brief
203	32221-30	Nov.18		Bell	NWT IB/MA	Formation of Indian Brotherhood; struggle for decolonization, self-determination; main tenets of Dene rights position; property rights; International Covenant on Economic, Social and Cultural Rights of 1966; International Covenant on Civil and Political Rights; worldwide rights of aboriginal peoples; experience of James Bay, Manitoba natives; political autonomy

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XXX	3728 3736-37	Apr.15	YK	Purcell Purcell Koskimaki	CAGPL CAGPL	Compressor stations Levels, standards
XXXI	3934-40 3943-45	Apr.16		Koskimaki Koskimaki		Turbine engines, condenser fans, electric generators Noise levels, compressor stations
XXXII	3999-4001 4064-69 4163-65	Apr.18		Genest Koskimaki Koskimaki	CAGPL	Koskimaki's flat and A weighted sound tables Sound levels and measurement - compressor stations Extra silencing of compressor stations
XXXIV	4471-77 4500-02	Apr. 22		Dau Carter	CAGPL CAGPL	Helicopters, aircraft, aerial surveys of migrating animals Aircraft lines of flight, altitudes
41	5345-60	May 20		Lucas	CARC	Snow geese, sensitivity to aircraft
42	5414-16 5432-34	May 21		Fielder Hurd	CAGPL CAGPL	High levels, A.C.V.'s Purging pipeline sections
47	6171-73 6211-17	June 3		McT-Cowan McT-Cowan	EPB	Aircraft disturbance to birds Over flight 2000' to avoid harassment; recommendation
48	6388-94	June 4		McT-Cowan		Aircraft harassment affects birds' survival
50	6647-51	June 6		Horte	CAGPL	Compressor station noise levels, decibel level - purging
C-II	145-46	Apr.3	Aklavik	Atchuk	Citizen	Machines, effects on animals, birds
C-11	1004	July 8	F. McP.	M. Kunnizzi	Citizen	Blasting, Fort McPherson area

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C-16	1637-38 1642-48	July 13	O.C.	B. Webber P. Lord	Citizen Citizen	Small plane activity, effect on caribou migration Effect of planes, helicopters on caribou
C-17	1664-65	July 16	F.L.	H. Deneron	Citizen	Drill rigs, graders
58	8171	Aug. 20	YK	Blair	Foothills	Intention is to limit extent of vehicle use and resultant noise; especially in nesting areas
51	6805-08	Aug. 11	WH	Hemstock	CAGPL	Impact during construction and operation phases in localized areas
54	7414-18 7478	Aug. 14		Geist Weeden	CARC CARC	Effect of infrequent aircraft noise on Dall sheep; energy budgets Ability of mammals to adapt to noise; disturbance could result in some degree of physiological stress; construction noise is limited; operation and maintenance will continue re: compressor stations, airfields, storage and repair sites
	7486			Weeden		Interior route re: noise in construction, compressor stations; impact in wildlife
	7507			Weeden		Construction, borrow extraction may cause birds to locate elsewhere; off-shore corridor construction phase; operation and maintenance of compressor stations; aircraft noise
63	9000-07 9028-31 9092-9113	Sept.17	YK	Beer Beer Beer	Foothills	Compressor stations; control measures, impact on personnel, wildlife; dBA levels inside and outside the station; effect of terrain, vegetation cover, temperature and meteorology on noise; emergency blow down noise level could increase Noise level created by fans in compressor stations Conduction in humidity, temperature, over vegetative cover, over water; compressor sound description; line purges; frequency of station blowdown
75	11105-22 11270	Oct.20		Parker Weeden Weeden	CARC CARC	Impact of increased activity such as aircraft noise, all terrain vehicles, human activities on caribou; compressor stations, maintenance activities; caribou energy budgets Development of off-shore reserves; impact on wilderness areas not directly used as staging areas ie. noise, air traffic
76	11673-74	Oct.23		Minning	CAGPL	Construction periods, presence of wildlife during construction periods; compressor stations; noise levels; report
82	12201-03 12263-65	Nov. 6		Hemstock Williams	CAGPL CAGPL	High noise levels during construction; effects on wildlife Noise from compressors
83	12350	Nov. 7		Scott Hemstock	MVPI	Disturbance of wildlife by borrow operations
85	12693-708	Nov.12		Bayly Williams Hemstock	COPE/ITC	Compressor station, gas-versus electric-powered
86	12882	Nov.13		Taylor	Foot-hills	As part of aesthetic considerations
89	13420-25 13427-30	Nov. 18		Gunn Gunn	CAGPL	Noise disturbance studies, birds, North Slope; sensitive areas Disturbance of birds, human, compressor stations, aircraft, recommendations
93	14127-29 14144-60	Dec. 1		Gunn Gunn		Disturbances to birds; congregating birds; studies Experiments conducted to investigate impact of aircraft noises, compressor stations; migrating and staging geese; barge and wharf noise and impact; sensitive environmental areas
	14170-96			Gunn		Disturbance of man, barge and wharf sites, aircraft; staging snow geese; noise experiments
94	14283-89	Dec. 2		Jakimchuk	CAGPL	Compressor station simulated noise; aircraft flight noise, frequency of noise; caribou behaviour
98	14870-71 14897-914	Dec. 8		Gunn Gunn		Compressor stations, aircraft, impact on birds Tests, Lapland longspur, snow geese, compressor, aircraft; hovercraft use; peregrine falcon nesting areas; emergency repair work
	14950			Jakimchuk		Caribou, noise disturbance tests

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99	15054	Dec. 9	YK	Hemstock	CAGPL	From compressor stations, impact on wilderness values
100	15320-25	Dec.10		Finney	Foothills	Taglu gas plant, effects on birds in Kendall Island Bird Sanctuary
106	16210-12	Dec. 18		Calef	CARC	Caribou re: disturbance; effect of compressor station
	16235-37			Calef		Compressor station noise simulation re: effect on caribou
	16245-46			Lent	CARC	Muskoxen response re: snowmachines, airplanes, helicopters; consequences of response re: desertion and death of calves
109	16711-12	Jan. 14		Templeton	EPB	Compressor stations, silencing equipment
C-26	2626	Sept. 9	FS	Antoine	Citizen	Pollution re: compressor stations, effect on game
C-28	2794	Sept. 10	Wr	H. Hardisty	Citizen	Hire North Camp re: Power Plant, vehicles, effect on trapping
	2821			G. Nayally	Citizen	Effect on animals and hunting re: construction camps
116	17652	Jan. 24	IN	Rempel	GPC-D-I	Traffic and equipment noise, disturbance to mammals
117	17790-91	Jan. 26		Webb	GPC-D	Gas plant sound emissions, impact on snow goose nesting colony
122	18492-95	Feb. 11		Sergeant	COPE/ITC	Need for monitoring whale response to water-borne sounds from oil, gas exploration
	18581-87			Barry	COPE/ITC	Disturbance of bird nesting, staging sites in Delta
	18597-99			Barry		Bird reaction to aircraft activity
	18619-21			Sergeant		Impact of noise on whales
133	20155	Mar. 23	YK	Webb	CAGPL	Pipeline noise, impact on beluga whales, Shallow Bay
134	20252-53	Mar. 24		Webb		Effects of boat, air, hovercraft noise on whales
	20259			Webb		Whales distinguishing between different boat noises
	20322-23			Webb		Whales unlikely to be disturbed by buried pipeline noise; observations of what does disturb whales
	20337-40			Gunn	CAGPL	Compressor stations, studies, maximum levels re birds
	20374			Webb		Impact of buried pipeline noise on whales
	20386-87			Webb		Whale disturbance studies, observations
C-40	3841	Feb. 23	AK	Rowe	CAGPL	Studies to determine noise of pipeline under river, impact on whales
C-52	5395-96	May 13	CAL	C. Osborne	Citizen	Film by Arctic Gas, impact on nesting birds
C-63	7039	June 1	MTL	Ford	Citizen	US pipeline, noise from compressor station heard over a mile away

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XXI	2518-25	Mar.19	YK	Mercredi	Citizen	Oil and gas, minerals, Mackenzie Highway; employment, housing, food prices; need for research
XXXVII	4733-34	May 13		Bell	NWT IB/MA	Possible secondary activity generated by the pipeline
44	5794-98	May 23		Bell Horte	CAGPL	Creation of jobs, more stable economic base
47	6241-62	June 3		Gourdeau	EPB	Dependence on land, participation in pipeline jobs
C-17	1688-89	July 16	F.L.	W. Mouye	Citizen	Traplines, prospecting
58	8223-32	Aug. 20	YK	Blair	Foothills	Pipeline seen as an agent of future northern development; region of exploration and drilling for natural gas and oil; potential for industrial growth
51	6757-60	Aug. 11	WH	Smith	Gov't Yukon	Mineral resources, oil refinement (Canol); railway and communication systems; industrial base economy
53	7060-77	Aug. 13		Trusty	CAGPL	Impact of project on the north
	7068-74			Trusty		Employment potential
	7120-39			Trusty		Effects on northern economy
C-19	1877-78	Aug. 6	FGH	Fr.Labatt	Citizen	Natives in the wage economy

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C-20	1970-89	Aug. 7	FGH	A. Tobac	Citizen	Comparison of traditional and current lifestyles
C-23	2309-11 2345-48 2371 2387-89	Aug. 14	WH	R. McKaymie I. Warner R. Genelli B. Cooper	Citizen Citizen Citizen Citizen	Recommendation of wage and price controls Exploitation by South and American interests Concern re: pipeline impact for working people Impact of southern value system
88	13273-77	Nov. 17	YK	Berger		NWT Chamber of Commerce request to increase construction to four years
94	14212	Dec. 2		Banfield	CAGPL	Upper Mackenzie Delta; important fur area
C-25	2479-511 2597-99	Sept. 8	FS	Erion Dixon Rutherford Workman Black	NWT CC NWT CC CAGPL Citizen	Economic history: Fort Simpson as staging area for development, inventory of northern business capacity, 4 year construction schedule; socio-economic impact of construction re: impact multiplier, type, length of employment offered to northerners, wage standards - local inflation, community projects, northern benefits of 4 year construction schedule; need for financial assistance for land use planning, construction of housing, education, water and sewage facilities
				Erion		Need for land base/resource base economy compromise, political autonomy
C-30	2889-93	Oct. 6	PP	Osing	Citizen	Pine Point Mines; housing, land costs; community services, facilities
C-33	3197	Oct. 9	FS	Christiansen	Citizen	Development and development possibilities in North
C-35	3418-28	Oct. 22	LI	O'Connor Carter Littledale	Citizen CAGPL Foothills	Construction of a viable economic framework in the north; quantity of money directed into NWT by applicants; report on northern business capacity to obtain contracts, fulfil construction demands; Chamber of Commerce - northern business report
C-37	3597-99	Feb.10	IN	Usher	Citizen	Native-run economy - termination of southern dominance
C-39	3719	Feb.18		Hill	Citizen	Government spending on north; financial imbalance, dependency for welfare system.
117	17840	Jan.26		Bell Sider	NWT-IB/MA GPC-D-G	Shift to wage economy
159	24310-12 24321-26A 24344-48 24399-403 24410-51	July 7	YK	Boorkman	CAGPL	Alyeska pipeline, impact on state, local budgets, ability of governments to raise necessary revenues Alyeska boom, inflation rate higher than in lower 48; rise in the cost of living, Fairbanks, Anchorage; rent increases Alaska, high rate of inflation, high cost of living; heavy government expenditures, need for new sources of public financing
				Trusty	CAGPL	Multiplier effect, creation of jobs, services and other industries
				Boorkman		Revenue sources, State and municipal governments, Alaska, revenues from royalties; Alaska - not a viable economic entity without petroleum royalties
161	24844-47 24869-70	July 12		Trusty Trusty		Possible "boom-bust" conditions; build up of service activities Personal expenditures by southern employees, not in the north; contractual arrangements with business
162	24974-80 25080-95	July 13		Trusty Trusty		Possible "boom-bust" situation Generation of new entrepreneurial activities; Territorial Department of Economic Development, proposed economic liaison group
163	25120-23 25176-92 25489-96	July 14		Hobart Trusty Trusty Roland	CAGPL MVPI	Improbable that there will be "bust" conditions after construction boom Ratio 35:65, jobs in primary - secondary sector vs tertiary - quarternary sector Northern procurement of supplies, materials, possible inflation

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167	25906 25939-41	July 21	YK	Usher Beakhust	COPE/ITC COPE/ITC	Dual system, industrial and traditional sectors Fluctuations in fur prices; decision making in the south
184	28514-17 28534	Sept 14		Atcheson Kehoe	COPE/ITC COPE/ITC	Effect of lack of self-sufficient base in community; problems with adapting to wages, return to traditional ways Consequences of injecting wage employment, alternative payment
194	30268-71	Oct.6		Butters	NWT/AM	Need for extraordinary funding for rapid growth communities
198	31230-31	Oct.14		Witty	MVPI	Modernizing land-based economy
200	31654-66A	Nov.15		Genest	CAGPL	White society support pipeline construction and associated economic benefits; consequences of delay or postponement of pipeline development; development benefits, property taxes, corporate income taxes, royalty revenues
201	31814-20	Nov.16		Gibbs	Foothills	Pipeline will not cure economic ills of the North, development benefits limited
202	31911-19	Nov.17		Bayly	COPE/ITC	Employment in wage economy has been unsteady, insecure, not compatible with traditional activities

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XXI	2519-25	Mar.19	YK	Mercredi	Citizen	Housing, food, clothing, small industry, need for research
XXVI	3088-90	Apr.9		Scott	MVPI	Nurse Parker's letter, Aklavik - hunting, trapping, fishing or pipeline
44	5795-98	May 23		Bell Horte	NWT IB/MA CAGPL	Pipeline economy vs. northern economy without pipeline
46	6075-76	June 2		Craik	EPB	Exhibit 135 assessment of impact
C-I	27-30	Apr.2	Aklavik	Paul	Citizen	Trapping for muskrat
C-6	482-576	May 30	Hay River	Hay River Hearings		Feelings of people, hunting, trapping, fishing
C-7	602-72	June 24	F.F.	Tatti	Citizen	Value of big game resources, Fort Franklin area; discussion in Gemini North report
C-8	676-771	June 25		Touchou	Citizen	Hunting, trapping, fishing
C-9	774-833	June 26		Tutcho	Citizen	Hunting, trapping, fishing
C-10	989-1065	July 8	F. McP.	Citizens		Hunting, trapping, fishing
C-12	1117-19	July 9		B. Simpson	Citizen	Development will bring higher cost of living
C-14	1270-1362	July 11	O.C.	Citizens		Community hearings, Old Crow
C-15	1387-88	July 12		J. Netro	Citizen	Trapping; trading outpost at Whitestone Village; Co-Op in Old Crow
C-16	1585-1624	July 13		R. Sharpe	Citizen	If gas brought to Old Crow, men working to supply wood would be unemployed
C-17	1684-85 1691-95 1708-14	July 16	F.L.	J. Klondike P. Nahanni P. Gardner	Citizen Citizen Citizen	Past times, hunting meat for Hudson Bay Company Hunting, trapping, fishing, Fort Liard area Use of meat, skins
C-17	1726-40 1741-49	July 17	F.L.	Father Mary J. Christian	Citizen Citizen	Life in the bush Wage economy not only source of income
100	15211-12 15311-18	Dec.10	YK	Whitney Hayden	Foothills Foothills	Will study reindeer herd if asked Possible conflicts with commercial, domestic fisheries, protection measures, more information required
102	15703-05	Dec.12		Novakowski	CARC	Importance of muskrat harvest to supplement income
104	15943-52	Dec. 16		Steigenberger	CARC	Historical exploitation of fisheries resource in Northern Yukon
108	16416-18	Jan. 13		Gourdeau	EPB	Hunting, trapping based economy; change to occur due to pipeline; new needs and standards to be introduced
111	16937-46	Jan. 16		Ryder Lent	MVPI CARC	Reindeer herding, problems; values of herding; future of Delta herd

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C-25	2590-97	Sept. 8	FS	Lamothe	Citizen	Impact of industry, multi-national corporations on northern economy; political power
C-26	2645-46	Sept. 9		Lafferty	Citizen	Hunting and trapping - deterioration in Fort Simpson; commercial fishing at Hay River
	2682-712			Lamothe	Citizen	Cree hunting economy, society of need; hunting economy - allowed man to support extended family; expectations of hunting economy; impact of change in economic system from hunting to industry
C-27	2736-39	Sept. 10		Cowie	Citizen	Aviation revenue related to trapping decline; price of furs up; changing lifestyle; ancestors, hunters
C-29	2873	Sept. 12	JMR	Lafferty		Hunting and trapping economy - amount of land needed to support
112	17068	Jan. 20	IN	Bliss	GPC-D	Fish, bird, reindeer harvest, Delta area; fur sales
	17080-83			Bliss		Whale utilization, Delta area, impact of development
145	22166-67	Apr. 26	YK	Brownstone	NWT IB/MA	Destruction of indigenous economies
152	23322-27	May 6		Berger Cruikshank McClellan	CYI CYI	Native dual economy in southern Yukon
157	24086-91	July 5		Hobart	CAGPL	Family income in Mackenzie corridor, transfer payments and government employment
160	24624-29	July 8		Asch	NWT IB/MA	Bush economy is not dying; continued use of country foods
163	25256-65	July 14		Hobart		Gemini North, underestimation of value of country food
166	25840-43	July 20		Usher	COPE/ITC	Compatibility, and incompatibility between hunting and wage economy
168	26064-69 26094-99	July 22		Brody Brody Usher	COPE/ITC	Alternatives, preservation of tradition sector Debate whether bush economy still thriving
	26136-38			Brody		Shift from possessors of land to wage labourers
C-72	8141	Aug. 11	RE	N. Football	Citizen	Natives will not live off pipeline, money is not important to them because they live off the land
C-74	8288-89	Aug. 1e	RL	C. Chocolate	Citizen	Compare to white, analogy
188	29175-80	Sept. 21	YK	Mrs. Worl	COPE	Dependence on whale, walrus, salmon, moose, subsistence economy; interdependency between cash and subsistence economy
	29188-89			Mrs. Worl		Interdependencies between cash and subsistence economies; cluster hire concept suggested by Robert Willard to accommodate economies
200	31650-59	Nov. 15		Genest	CAGPL	Renewable resource economy is incapable of providing enough jobs for natives or stimulating economic growth; low family incomes; wage employment at Arctic Bay, Inuvik; consequences of delay or postponement of pipeline construction

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XVIII	2016-22	Mar. 14		Dau Bayly Berger	CAGPL COPE/ITC	Consultation re: route selection, climatic conditions
XXI	2516	Mar. 19	YK	Mercredi	Citizen	Presentation, Research projects needed for native peoples' concerns
XXXIV	4388-90	Apr. 22		Dau		Construction plan, location of pipeline
XXXVI	4682	May 12		Scott	MVPI	Native groups are major participants in Inquiry
44	5787-89	May 23		Bell	NWT IB/MA	Treaty negotiations between Canada and the U.S. on pipelines
47	6240-62	June 3		Gourdeau	EPB	Native use of resources; attitudes, reactions to pipeline

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C-I	12	Apr. 2	Aklavik	Stewart	Citizen	Land claim settlement
	16-17			Furlong	Citizen	Against development
	21-26			F.Elanik	Citizen	Individual concern that pipeline will spoil hunting
C-II	72	Apr. 3		Sittichinli	Citizen	Want land claims settled before pipeline
	74-77			Norbert	Citizen	Older people concerned about young generation
	108-109			Greenland	Citizen	Future generations
C-4	197-208	May 28	Hay River	Phillip, etc.	Citizen	Long range benefits to the north
C-5	327-476	May 29		Graves, etc.	Citizen	Education; employment, etc.
C-6	480-576	May 30		Berger		Concern shown throughout hearings
	577-596	May 31		Camsell	Citizen	Hearing, Hay River Indian Village
C-7	599-674	June 24	F.F.	Berger		Community Hearings, Fort Franklin
C-8	676-771	June 25		Berger		Community Hearings, Fort Franklin
C-9	774-833	June 26		Berger		Maintenance of traditional way of life
C-11	989-1065	July 8	F. McP.	Citizens		Community hearings, Fort McPherson
C-12	1067-1149	July 9		Citizens		Community hearings, Fort McPherson
C-13	1150-1269	July 10	F. McP.	Citizens		Community hearings, Fort McPherson
C-14	1270-1362	July 11	O.C.	Citizens		Community hearings, Old Crow
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow
C-17	1703-04	July 16	F.L.	J. Bonnetrouge	Citizen	Native people want to protect what they have
	1725-40	July 17		Father Mary	Citizen	Life in the bush
52	7015-20	Aug. 12	WH	Veale	CYI	Demand for community gas supply line in Whitehorse
C-18	1766-1834	Aug. 5	FGH	Citizens		Preservation of traditional ways
C-19	1835-1908	Aug. 6		Citizens		Preservation of traditional ways
C-21	2160-64	Aug. 9	NW	P.Tourangeau	Citizen	Government inaction; hunting
	2202-15			W. Fraser	Citizen	Natives in majority should govern north
C-23	2354-56	Aug. 14	WH	C.Taylor	Citizen	Study of attitudes re: recreation and development in Yukon
	2367-68			A. Cuvret	Citizen	Inquiry terms of reference limited
	2374			R. Genelli	Citizen	Cynicism re: Inquiries; opposition to dams
	2386-88			B. Cooper	Citizen	Value system of southern workers
76	11233-40	Oct. 21	YK	Parker Weeden	CARC CARC	Employment and problems of native peoples re: Alyeska project
87	13074-99	Nov. 14		Bayly Reeves	COPE/ITC Foothills	Destruction of historical, burial, sacred sites; loss of artifacts
	13111-14			Bayly Taylor	Foothills	Aesthetics, consultation with northerners, native attitudes
88	13273-77	Nov. 17		Berger		NWT Chamber of Commerce request to increase construction to four years
	13279			Ryder	MVPI	Informing native groups of archaeological finds
	13300-05			Bouckhout Taylor	Foothills Foothills	Aesthetic views, consultation with local people; conflicts of land use
90	13685-93	Nov. 19		Dabbs Hemstock Bayly	CAGPL CAGPL COPE/ITC	Clearing of timber along right-of-way, Peel River area
C-24	2412-13	Aug. 23	TL	F. Tetrault	Citizen	Change in lifestyle, concern for the youth, ability to farm the land
C-25	2498-511	Sept. 8	FS	Black	Citizen	Position in society; education, training programs, cultural identity, choice of alternatives, land claims issue; local government modification; lead time, funding re: land use planning, housing, education, water and sewer facilities
	2598-99			Erion	NWT CC	Racial issue propagation
150	22906-07	May 4	YK	Simpson	NWT IB/MA	Need to have control over decisions, timing of development
151	23168-69	May 5		Smith	CYI	Opportunity to participate in building of pipeline

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152	23272	May 6		Jacquot	CYI	Social diseases, alcohol, drug abuse associated with pipeline development
C-56	6068-71	May 19	REG	P. Gallagher	Citizen	Lack of effective democratic control, political institutions
166	25831-39	July 20	YK	Usher	COPE/ITC	Life on land vs. community, basis for way of life
167	25951-53	July 21		Beakhust	COPE/ITC	Lack of northern autonomy, continued federal control
173	26921-23	Aug. 19		Kyllo	COPE/ITC	Cultural identity
180	27885-86	Sept 7		St. Eloi	MVPI	Northerners' way of life not conducive to accepting southern way of life
202	31923-26	Nov.17		Bayly	COPE/ITC	Inflationary wages, prices and continuity of supplies, services; pipeline workers transient, access to communities
	31983-85			Sigler	NWT/AM	Involvement in decision making, control of resources, question of development

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XVI	1820-27	Mar.12	YK	Anthony	CARC	Route selection for an oil pipeline	
42	544-51	May 21		Berger		Proposed oil pipeline for Mackenzie Valley	
42	5444-51	May 21	YK	Berger		Proposed oil pipeline for Mackenzie Valley	
44	5758	May 23		Bell	NWT IB/MA	Gulf Oil Canada Limited, conviction for violating condition of land use permit	
	5791			Bell Horte	CAGPL	Hydrocarbon development	
45	5951-56	May 24		Horte		Prudhoe Bay oil field	
46	6036-37	June 2		Templeton	EPB	Permits from DIAND	
	6097-6101			Berger		Likelihood of oil line being built	
47	6180	June 3		McT-Cowan	EPB	Disturbance to nesting birds, population now 1/3 former	
	6235			Templeton		Government policy	
48	6445-48	June 4		Templeton		Present knowledge inadequate, impacts must be evaluated	
49	6526	June 5		Horte		Source gas available depends on oil production	
50	6640-43	June 6		Horte		Likely route of oil line - bearing on route of gas pipeline	
C-5	471-472	May 29	Hay River	Lantz	Citizen	Oil and gas reserves, Prudhoe Bay Supply Line	
C-8	695-705	June 25	F.F.	D.Shay	Citizen	Experiences of witness, oil industry in Alberta	
C-10	907-09	June 27	F.M.	P. Macaulay	Citizen	Environmental impact of blasting	
	907-09			J. Hitchinelle	Cit.	Blasting; garbage left by crews	
C-11	996-98	July 8	F. McP.	C. Koe	Citizen	Environmental impact in delta	
	1017-19			A. Kunnizzi	Citizen	Environmental impact	
	1029-30			J. Blake	Citizen	Seismic lines; gas drums left behind	
C-13	1243	July 10		J. Martin	Citizen	Consultation on effects to the land	
	1250-51			J. Simon	Citizen	Damage to livelihood of native people	
	1262			J. Charlie	Citizen	Caribou leaving areas where exploration taking place	
C-15	1433-34	July 12	O.C.	A. Peters	Citizen	Development of an airport, Old Crow	
C-16	1506-07	July 13		R. Bruce	Citizen	Oil company exploration on the Porcupine River	
	1515-17			J. Tizya	Citizen	Holes left behind after blasting by seismic crews	
	1519-21			A. Charlie	Citizen	Lines have created checkerboard pattern	
	1539-41			W. Eckgrader	Citizen	Oil rigs, camps in Yukon	
C-17	1682-84	July 16	F.L.	J. Savage	Citizen	Amoco Petroleum, Painted Mountain Pipeline	
58	8228-30	Aug. 20	YK	Blair Berger	Foothills	Influence of a pipeline on oil research; development of the petro-chemical industries with respect to pipeline locations and facilities	
52	6902-20	Aug. 12	WH	Dau	CAGPL	Prospects of an oil pipeline; ACND document outlining application to NEB	
53	7069-70	Aug. 13		Trusty	CAGPL	Impact on northern economy	
	7090-7100			Williams Hemstock	CAGPL	On shore and off shore development of Beaufort Sea	
53A	7286-89	Aug. 13		Collins	CARC	Potential of Arctic National Wildlife Range	
	7338			Leonard	CARC	Restoration of susmic areas; oil pads - Mackenzie Delta	
C-18	1815-19	Aug. 5	FGH	C. Barnaby	Citizen	Past effects; test facilities	
C-20	2031	Aug. 7		G. Oudzi	Citizen	Heath and Sherwood - abuse of wildlife	
C-21	2139-40	Aug. 9	NW	C.Tourangeau	Citizen	Oil discovery, Norman Wells	
	2142-49			M.Blondin	Citizen	Discovery of oil by Indian ancestor	
	2144-45			C.Ross	Citizen	Oil dam 1914 by Imperial Oil	
	2191			R. Sinotte	Citizen	Imperial Oil policy re: local industry	
C-23	2311	Aug. 14	WH	R. McKaymie	Citizen	Role in pioneering development on Eagle Plain	
	2319-24			A. Fekette	Citizen	Proposed oil pipeline	
	2335-41			R. McCandless	Citizen	Potential of Eagle Plain field, Yukon	
	2345-48			I. Warner	Citizen	Ownership and control; exploration of north	
	2356			C. Taylor	Citizen	Oil discovery and change in life style, transportation	

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OIL - EXPLORATION AND DEVELOPMENT

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C-23	2383		Aug. 14	WH	B. Cooper	Citizen	Protection of energy resources
64	9347-49		Sept. 18	YK	Mirosh	Foothills	Delivery of gas from Banks & Victoria Island through Foothills system; mode of delivery
68	10131		Sept. 24		Dau	CAGPL	Contractors involved in route investigation; merger of Gas Arctic & Northwest Project
	10200				Templeton	EPB	Prospects & requirements of an oil pipeline
70	10508-16		Sept. 26		Owen	MVPI	Seismic crews, damage by equipment and exploration activities; Pointed Mountain Line, borrow pits; land use permits
75	11033		Oct. 20		Marshall Parker	CAGPL CARC	Use of snow roads by oil and gas exploration companies in the Mackenzie Delta Region
	11039				Weeden	CARC	Since discovery of oil in Prudhoe a substantial amount of research has been undertaken; wildlife species of Northern Alaska
	11053				Weeden		Establishment of a corridor would lead to increased oil and gas exploration; Arctic National Wildlife Range
76	11207		Oct. 21		Weeden		Cost of Alyeska at point of initial oil discoveries
	11254-98				Parker Weeden		Impact on caribou
77	11462-88		Oct. 22		Roed	CARC	Inventory and local oil and gas bearing areas; planning stages prior to pipeline construction; route selection
78	11495-96				Roed		Northern Assessment Group work re: oil and gas bearing rocks in the Mackenzie Delta
79	11722-23		Nov. 3		Dabbs	CAGPL	Use of rig sites for revegetation studies
80	11858		Nov. 4		Hemstock	CAGPL	Proximity of Mackenzie Valley to potential oil and gas fields a factor in route selection
81	12017-18		Nov. 5		Berger		Future developments not included in present acreage estimates
82	12319		Nov. 6		Dabbs		Experience of reseeding rig sites
85	12706-08		Nov. 12		Hemstock Williams	CAGPL	Oil lines use electric and oil powered pumps; Canol line
89	13435-36		Nov. 18		Berger Gunn	CAGPL	Enhanced oil exploration after building gas pipeline
94	14292-94		Dec. 2		Berger		North Slope of Alaska reserves; Naval Petroleum Reserve No. 4
95	14375		Dec. 3		Banfield	CAGPL	Blow out of an off-shore oil well on the coast of Santa Barbara, California
	14455-58				McCart Banfield	CAGPL	Oil spills; environmental impact
	14497-14501				Banfield		Scotland - large oil project; petroleum industry in the Orkney Islands; North Sea reserves
97	14729-31		Dec. 5		Jakimchuk	CAGPL	Exploration, Swan Hills, Alberta, impact on moose
98	14964-67		Dec. 8		Berger		Impact of successive developments
100	15331		Dec. 10		Scott	MVPI	Holmes Creek crossing, relocating in area of Gulf exploration camp
102	15548-59		Dec. 12		Peterson	CARC	Initial assumptions for guideline development; corridor concept
	15666				Novakowski	CARC	Impact on fox population, Banks Island
103	15744-46		Dec. 15		Walker	CARC	Prudhoe Bay supply line, Interior Route background information
	15776-77				Steigenberger	CARC	Oil pipeline potential impact re: fisheries
105	15978-82		Dec. 17		Steigenberger		Need for all-weather road beside oil pipelines, access
	16145-52				Lent	CARC	Experiments with caribou re: design features of oil pipeline (TAPS); simulations built to test caribou responses to crossing facilities
106	16185-87		Dec. 18		Lent		Prudhoe Bay oil field; petroleum reserve no. 4 re: west of Colville River, no protected status
	16252-57				Lent		Naval Petroleum Reserve re: wilderness designation; oil leases re: lower Canning River; oil fields re: terrain damage prevention
107	16297-300		Jan. 12		McT-Cowan	EPB	Areas of potential discovery; Marsh Fork area of the Canning River, Eagle Plains - preference for the Interior Route

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108	16437-44	Jan. 13	YK	McT-Cowan	EPB	Potential areas, advantages of both Interior and Coastal Routes; facilitation of oil and gas transport; corridor concept; impact of oil spills
C-24	2402	Aug. 23	TL	T. Kushia	Citizen	Fear of expanded search for oil and gas along a pipeline route
C-25	2537-41	Sept. 8	FS	R. Lamothe Ellwood Workman Berger	Citizen Foothills CAGPL	Federal government, CAGPL, Foothills re: position on oil pipeline construction
C-27	2734-35	Sept. 10		M. Lafferty	Citizen	Worked in Alberta oil industry; oil well, servicing and drilling
	2768-69			Berger		Channels for oil pipeline re: NEB, Cabinet, DIAND; establishment of another inquiry re: oil pipeline
C-28	2779-80	Sept. 10	Wr	Berger		Oil in Mackenzie Delta; oil pipeline by 1983
C-30	2927-31	Oct. 6	PP	Mirosh	Citizen	Right-of-way; Alaska Oil Pipeline project - cost, design; energy corridor
C-32	3041-49	Oct. 8	FR	Slavic	Citizen	Syncrude Oil Development Sands re: native employment, training programs; Great Canadian Oil Sands re: training programs, native employment
C-33	3116-17	Oct. 9	FS	Mirosh		Development in Arctic Islands re: additional pipelines and gas plants
C-34	3254	Oct. 15	YK	Duesterhus	Citizen	Opportunities for employment
	3288-89			Masterchuk	Citizen	Mackenzie Delta resources limited, vast unexplored fields in high Arctic
C-39	3749	Feb.18	IN	Tanner	Citizen	Role of companies if major oil or gas spill
	3753			Berger		Beaufort Sea, possibility of oil spill
112	17015-34	Jan.20		Horsfield.	GPC-D	Geology of oil fields; seismic work; drilling; production; delivery; history of industry, Mackenzie Valley; future prospects
	17110-16	Jan.20		Bliss	GPC-D	Drilling sites in Kendall Island Bird Sanctuary; dangers: from toxic chemicals in drilling process, impact on vegetation
	17116-21			Bliss		Impact of Delta gas field activity on reindeer; impact on goose-feeding vegetation; development near Kendall Bird Sanctuary
113	17169-72	Jan.21		Hobart	GPC-D	Number of natives employed in exploration, Delta communities
	17185-86			Hobart		Economic effects of no further oil/gas development in Delta
	17216-25			Hobart		Income generated to natives in Delta area; work readily available; Gulf in Coppermine
	17245	Jan.21		Hobart		Effectiveness in exploration, work, Coppermine, southern and Delta workers
114	17346-58	Jan.22		Bayly Mainland	COPE/ITC GPC-D-I	Borrow material from Campbell Lake for artificial island in Beaufort Sea; future potential lies offshore; dredging sea floor for island material
115	17455	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, composition of gas in future oil/gas finds
	17595-604			Bayly Berger Marshall	CAGPL	Relevance of COPE/ITC witness Shaw's evidence "Handling of hazardous materials in oil and gas field development in Alberta" with regard to later oil development in North
116	17655	Jan.24		Rempel	GPC-D-I	Delta oil industry co-operative, "Delta Environmental Protection Unit," to combat spills
	17656-59	Jan.24		Rempel	GPC-D-I	Delta environmental Protection Unit, efforts to prevent spills, bases, equipment, training exercises, response to emergency.
	17732	Jan.24		Appleton	GPC-D-G	Elf Oil barge in Husky Lakes area.

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117	17758 17794-95 17804-09	Jan.26	IN	Ballem Goudge Rempel Wopnford Appleton	GPC-D MVPI GPC-D-I GPC-D-S GPC-D-G	List supplied of oil spill clean-up equipment Development of processing plants on Delta, possible proliferation, ecological impact Risk of toxic materials in the Delta, preventive measures; spills on ice, clean-up; Delta Environmental Protection Unit, Beaufort Sea Environmental Program; report, "Arctic Oil Contingency Plans for Gulf Oil Canada Ecological Evaluation"; Alaskan studies on spillage
118	18043-44	Jan.27		Bayly Berger Horsfield	COPE/ITC MVPI GPC-D-I	Imperial's contingency plans, oil spills
119	18104-27	Jan.28		Shearer	COPE	Future development in Mackenzie Delta area; potential, leasing arrangement, drilling record, proposed permanent facilities, possible drill hole locations, hazards of burying pipeline, oil and gas fields in Williston Basin
120	18301-08	Jan.29		Pimlott	COPE	Platform drilling spills; enforcement of anti-spill regulations; high geo-pressure risks
121	18430-38	Feb.10		Stein	COPE/ITC	Impact of drilling fluids, - waste water, - oil spills on aquatic resource; oil spill clean-up techniques
122	18492 18520-22 18541 18547-48	Feb.11		Sergeant Sergeant Stirling Stirling	COPE/ITC COPE/ITC	Quantitative data required - water-borne sound levels, frequencies produced by oil, gas exploitation - impact on whales Justification of whale reserve proposal re industrial development Potential impact on critical polar bear ice habitats Recommendations - scheduling of industrial activities in polar bear feeding, denning areas; study - impact of industrial activity on polar bears
123	18741-46 18755-69	Feb.12		Yates Elkin Yates	MVPI MVPI	Impact of development on regional planning decisions in Delta Definition of Cabinet's granting of approval in principal for drilling in Beaufort Sea
124	18893-95 18925-31	Feb.13		Shearer Milne	COPE/ITC COPE/ITC	Development in Beaufort Sea - burial of flowlines, bathymetric surveys needed prior to water transport of oil Exploratory drilling in Beaufort Sea
125	19025 19081-82	Feb.14		Marshall Shearer Lewis	CAGPL COPE/ITC	Slide error - projected CAGSL activity in Arctic Possibility of gravel consolidation on artificial islands
127	19315-42 19371-74 19453-54	Feb.17		Longlitz Gibbs Longlitz Trudeau	COPE Foothill's COPE	Exploration activity prior to and after 1971, slide presentation Seismic activity and drilling Effect of seismic on fisheries, fuel spills
128	19514-17 19529-43 19559-64 19567 19645-53	Feb.18		Trudeau Milne Goudge Milne Speller	COPE COPE MVPI MVPI	Environmental protection service, role in pollution control and research, fuel spills, prosecution of violators Recovery period of oil spill, development wells; "Oil, Ice and Climate in the Beaufort Sea" by Walker; clean-up techniques; drilling seasons, schedules Article by Campbell and Martin, effect of oil spill on climate Detection of spring fragmented oil trails Risk of fuel spills; impact of workmen on environment
131	19996-98	Mar.17	YK	Williams	CAGPL	Ice scour problems, supply lines from off-shore wells
134	20261-74	Mar. 24		Webb	CAGPL	Effect on whales of increased oil and gas activity in Beaufort Sea and Delta area; artificial islands slowing ice movements, acting as barrier to whales
135	20401-25	Mar. 25		Scott Marshall Berger Bayly	MVPI CAGPL COPE/ITC	Admissibility of COPE/ITC evidence on petroleum development, Western Arctic

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135	20417-18 20567-68	Mar. 25	YK	Berger Webb	CAGPL	Failure of industry to consult with native people Possibility that artificial drilling islands will delay ice breakup in Beaufort Sea and act as barrier to whales
140	21304-55	Apr. 8		Usher	COPE/ITC	Summary- granting of exploration permits on Banks Island to Elf, Deminex, Amoco; compromise program agreed to by Bank Islanders, DIAND, oil companies- failure of companies to fulfill agreement; Panarctic- intention to schedule year-round exploration activities on Banks Island
	21413-39			Usher	COPE/ITC	Timing of community consultation, assessment studies of environmental, socio-economic impact of oil development; development proposals presented, assessed in fragmented manner; bias involved in social impact studies conducted by industry
	21451-73			Usher Cournoyea	COPE/ITC	Petroleum companies- clean-up commitments, environmental record on Banks Island; failure of natives to comprehend pipeline concept presented by Gemini North; oil exploration during 1960's apportioning of impact assessments responsibilities associated with oil exploration, development
142	21532	Apr. 13		Virtue	Nortran	Exploration, development in the Northwest Territories
143	21821-25	Apr. 14		Fumoleau	NWT IB/MA	First oil discovery of oil in Norman Wells in 1920
145	22147-48	Apr. 26		Clarke	NWT IB/MA	Government role in resource development in the north
147	22531	Apr. 28		Snowshoe	NWT IB/MA	Seismic line
148	22660	Apr. 29		Rushforth	NWT IB/MA	Oil discovery, Norman Wells, 1920
	22708			Asch	NWT IB/MA	Well paying jobs from oil and gas exploration
152	23343-44	May 6		Notti	CYI	Offshore exploration in Gulf of Alaska
C-41	3925-26	Mar. 3	HOL	Memoganak	Citizen	Pressure of ice will scour sea bottom, effect of oil spill
	3931-32			Joss	Citizen	Pressure of broken ice currents on oil rigs
	3940			Inuktalik	Citizen	Doesn't want oil companies to drill
	3973			A. Goose	Citizen	Opposed to drilling
	3979-80			Kuneyuna	Citizen	Impact of oil spill on native livelihood; opposed to offshore drilling
	3984-85			Oliktoak	Citizen	Environmental damage if oil spill
	3992-94			Okheena	Citizen	Dangerous, impact of oil spill
C-42	4027	Mar. 4	SACHS	F. Carpenter	Citizen	Blasting in ocean not good for seals
	4040			Kuptana	Citizen	Impact of exploration on animals
	4045-46			Nasogaluak	Citizen	Carelessness by oil companies, seismic wires lying around
	4052-55			A. Carpenter	Citizen	Go-ahead given to do seismic work without consultation with native people
	4092-93	Mar. 5		A. Carpenter		Opposed to drilling in summer
C-43	4143	Mar. 7	NSH	F. Wolkie	Citizen	Pressure of ice in Beaufort Sea, concern for offshore drilling
	4148-49			Anaviak	Citizen	Pressure of ice, strength of current, damage to oil rig predicted
	4151-53			S. Wolkie	Citizen	Disaster of offshore drilling, ice pressure
C-44	4187	Mar. 8	TUK	J. Steen	Citizen	Reasons for Inuvik not to support offshore drilling
	4222-23			R. Potiak	Citizen	Seismic work is killing fish
	4254	Mar. 9		Gruben	Citizen	Fear of inability to stop pipeline leak
	4257-58			Gruben		Effects of blasting on fish eggs in Eskimo Lakes, Liverpool Bay
	4293-95			Norberg Berger	Citizen	Drilling in Beaufort Sea, construction of artificial islands
	4317-27			V. Steen Hnatiuk	Citizen GPC-D-G	Blowouts when drilling, contingency measures

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C-44	4336-37	Mar. 9	TUK	Hnatiuk	GPC-D-G	Construction of monopods, harbours for ships
C-45	4358	Mar. 10		Nasogaluak	Citizen	Recommended that panel be elected by community to decide about offshore drilling and pipeline
C-46	4440	Mar. 11	PAUL	P. Green	Citizen	Displeasure with experimental oil spill in Balaena Bay
	4483-86			R. Kirby Hnatiuk	Citizen	Permission to drill, application and approval needed; effect on native land claims settlement
C-48	4755-58	Apr. 30	FS	M. Beaulieu Berger	Citizen	Decision to drill in Beaufort Sea, role of government and Inquiry, long-term risks involved
C-49	4778-79	May 10	VAN	Deroo	Citizen	Esso corporation; control of mass media
	4800-06			Gallon	Citizen	Increasing oil prices to finance northern development, Tar Sands
	4811-16			Rankin	Citizen	Oil, gas reserves, increasing profits for Imperial Oil, Guj Oil, Shell
C-50	4888	May 11		Stace - Smith	Citizen	Dome Petroleum, Beaufort Sea drilling
	4894-95			Stace - Smith		Dome Petroleum, obtaining federal government permission for offshore drilling
	4905-06			Daly	Citizen	Oil development vs growing need for food
	4911-13			Pimlott	CARC	Offshore drilling, Canadian Arctic, equally significant to gas pipeline in terms of social, environmental impact
	4923			St. Dennis	Citizen	Dome Petroleum, regret government approval of offshore drilling
	5008			Clark	Citizen	Industry moving north with Alaska oil discovery, 1968
	5056			Potts	Citizen	1920, Imperial Oil drilled successfully at Norman Wells
C-52	5232-37	May 13	CAL	J. Poyen	Citizen	Search for greater reserves; role of Canadian Petroleum Association
	5241-43			J. Poyen		Proportion of energy from oil and gas
	5260-62			A.D. Brown	Citizen	Efforts of Sun Oil Company
	5266-67			Chief Snow	Citizen	Offshore drilling, Beaufort Sea
	5294-95			M. Thiel	Citizen	Discovery of oil, Leduc; impact on local communities
	5369-71			J. Rymes	Citizen	Pan-Arctic Oils, ice platform drilling rig
	5391-95			C. Osborne	Citizen	Dome Petroleum, offshore drilling
	5402-03			J. Ryan	Citizen	Alberta Tar Sands, native employment
C-53	5445-53	May 14		Pearce	Citizen	Need to develop Arctic resources - to prevent shortages in Canada
	5504			Greyeyes	Citizen	Syncrude Alberta, little native employment or training programs
	5521-31			Nickle	Citizen	Athabasca Tar Sands
C-54	5626-31	May 17	EDM	Manning	Citizen	Oil and gas industry in the Lesser Slave Lake region
	5695-97			Leeson	Citizen	Effects of Syncrude development on Alberta communities
	5705-07			Bannister	Citizen	Domestic production of oil will be hard pressed to meet normal demands, if shift from gas to oil
	5740-43			MacDonald	Citizen	Scepticism of the oil corporations motives
C-55	5873-74	May 18		L. Mulhall	Citizen	Offshore drilling, Beaufort Sea
	5888-905			H. Cardinal	Citizen	Athabasca Tar Sands development
	5929			B. Jahrig	Citizen	Prudhoe Bay discoveries, interest in the north generated
	5996			L. Bujold	Citizen	Syncrude of Canada, Athabasca Tar Sands
	6079-80			P. Prebble	Citizen	Offshore drilling, environmental risks
155	23763-75	June 30	YK	Forrest	NWT IB/MA	Atlantic Richfield, strike at Prudhoe Bay; role in land claims, Alaska
	23801-08			Forrest		Oil companies, role in Alaska land claims settlement

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155-A	23841-43 23879-81 23896	June 30	YK	Jelliss Jelliss Jelliss	NWT IB/MA	Norman Wells, economic rents between 1970-74 Production at Norman Wells Difficulty in understanding ownership of oil companies
C-59	6431-32	May 26	TOR	S. Acheson	Citizen	Offshore drilling, Beaufort Sea
C-63	7014-15 7090 7171	June 1	MTL	Mountjoy Hughes Jones	Citizen Citizen Citizen	Early petroleum discoveries, Ontario 1857 Even with development of Tar Sands, Canada will still have to be a net importer of oil World oil market, 1905
C-64	7197-98	June 3	OTT	Amagoalik	COPE/ITC	Inuit not opposed to development, but would like to ensure environmental controls
C-65	7499-00 7535-42	June 4		A.G. Salvin H.T. Schwarz	Citizen Citizen	Petroleum will become too valuable as an energy source, important role will be as chemical feed stock Negative environmental effects, oil drilling, Beaufort Sea
C-66	7651-52	June 7	CH	A. Holman	Citizen	Tuktoyaktuk Council rejection of permit for summer seismic work
C-67	7788	June 8	HAL	P. Brody	Citizen	Athabasca tar sands should be exploited
161	24927-29	July 12	YK	Berger Trusty	CAGPL	Level of exploration, investment if pipeline not built
168	26139-41 26148-60	July 22		Brody Brody	COPE/ITC	Pont Inlet, recruitment of workers by Pan Arctic Oil Pond Inlet, hiring by Pan Arctic Oil, increase in liquor consumption, related problems
169	26223	July 23		Stanley	NWT IB/MA	Passamaquoddy Indians, Maine opposition to location on their reserve of oil refinery, storage depot
170	26498-500	Aug. 16		MacLeod	Foothills	Business in Inuvik kept alive by oil explorations, Dome petroleum
181	28062 28080 28086 28100-01 28127-28	Sept 8		McCambly LeClair Bayly LeClair Reimer	MVPI MVPI COPE/ITC	Syncrude, native representative for Teamsters Union Syncrude, alcohol restrictions in camps Syncrude, avoiding staggered strikes with general project agreement Syncrude, training program in construction camps
188	29193-200 29200-201	Sept 21		Neakok Neakok	MVPI COPE	No guarantee of continuing activity Arctic Slope has 1/3 of coal reserves of U.S.; naval petroleum reserves; oil field development in Barrow; effect of Alaska's statehood on commercial oil field development; Kenai oil boom; impact of oil exploration, effect of Alaska Native Land Claims Settlement Act in 1971 Impact on land caused by oil corporations in Alaska; impact of native land claims movement on oil exploration
194	30328-30 30356-68 30378-83 30385-88 30409 30415-34 30440-46	Oct. 6		Templeton Hemstock Hemstock Hemstock Hemstock Wylie Wylie	EPB CAGPL	Potential for oil finds greatest north of Tuktoyaktuk Anticipated environmental impact of oil and gas pipeline construction Oil pipeline routing in Gibson Gap; use of gas to power oil line Long gas, oil construction period will have positive impact Coastal route preferred due to location of potential offshore reserves in Alaska Beaufort Delta, parameters influencing oil pipeline routing, elevation, burial, energy sources, powering of pumping stations Potential for oil production in Beaufort Basin, Delta, pipeline design, labour force, gravel requirement
200	31653	Nov.15		Genest	CAGPL	Native income at Inuvik from oil exploration employment
204	32282-84	Nov.19		Ballem	GPC -D	Effect of development moratorium on oil exploration industry; no economic alternative to pipeline; Prudhoe Bay reserves

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XV	1662	Mar.11	YK	Dau	CAGPL	Division HQ Inuvik, Calgary; District HQ Norman Wells, Fort Simpson, Peace River
XXXII	4009-10	Apr.18		McMullen	CAGPL	Norman Wells and Fort Simpson - 12 voice channels
40	5206-07	May 16		Hurd	CAGPL	Maintenance crews within districts
	5217-20			Hurd		Main storage facilities
	5226-28			Hurd		Administration and co-ordination
42	5387-89	May 21		Hurd		Fort Simpson, Norman Wells, Inuvik
	5462-66			Scott	MVPI	Location of environmental people
	5490-91			Hurd		Judgement on information received from ground monitoring
C-11	1041	July 8	F. McP.	Elwood	Foothills	Operations Control Centre, Yellowknife
68	10041-42	Sept.24	YK	Hushion	Foothills	Contrast with CAGPL--Foothills Headquarters based in Yellowknife
	10050-52			Hushion		Reason for choice of Yellowknife as centre; spread of facilities & district offices
	10061			Hushion		Location of maintenance supply depot at Simpson; alternative locations
	10106-09			Hushion		Numbers & qualifications of engineers (environmental & right-of-way) stationed in north
	10120-26			Hushion		Consideration of other centres than Yellowknife; housing studies, attraction of Yellowknife; reasons for choice of Yellowknife as centre
162	24960	July 13		Carlson	CAGPL	Section 1, headquarters in Inuvik
	25056			Trusty	CAGPL	Facilities to be located in Inuvik, Norman Wells, and Fort Simpson
163	25184-85	July 14		Trusty		Need for stable work force residing nearby

OPERATIONS AND MAINTENANCE EQUIPMENT AND MATERIALS

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XXIII	2690-92	Mar.21	YK	Clark	CAGPL	Erosion repair, terrain damage
XXV	3008-12	Apr.8		Hardy	CAGPL	Environmental damage due to repair
XXVI	3267	Apr.9		Clark		Berm break maintenance, hand shovels
XXIX	3678-80	Apr.14		Reid	CAGPL	Removal of water from test pipe with a pig
	3696			Purcell	CAGPL	Electronic pigs to eliminate risk of defect
XXXII	4039	Apr.18		Purcell		Unmanned compressor stations equipment
	4068			Koskimaki	CAGPL	Condenser fans - affect noise level
	4112			Purcell		Turbines - industrial and aircraft type
	4164			Purcell		Condensers, turbines for silencing compressor stations
40	5210-29	May 16		Hurd	CAGPL	Ground transportation
	5238-42			Hurd		Storage depot; pretested pipe lengths, heavy repair equipment
	5249-57			Hurd		Scheduling for repairs, L.G.P., ACV vehicles
	5262-70			Fielder	CAGPL	L.G.P., ACV boats, aircraft, rolligons
41	5288-5311	May 20		Hollingworth	Foothills	Modular unit replacement
42	5400-07	May 21		Bayly	COPE/ITC	Pipeline equipment for fighting fires
	5411-17			Fielder		Backhoes, ACV's
	5500-07			Scott Hurd	MVPI	Rolligons, ACV's, L.G.P.'s
	5520-27			Scott Fielder		Deployment, number of pieces of equipment
62	8792-94	Sept.16	YK	Mirosh	Foothills	Contingency plans; river crossing design; restoration; single versus dual piping; fish
	8892-93			Mirosh		Emergency facilities provided CNT can provide four alternate routings; facilities to operate unattended and in a fail-safe mode

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63	8980	Sept.17	YK	Lazerte	Foothills	Compressor station lay-out; facilitate repair, maintenance and operation ; road facilities
64	9405-06	Sept.18		Claridge	Foothills	Stockpiles; effects of compounds (clay bentonite)
68	10054-56	Sept.24		Hushion	Foothills	Types of helicopters required
70	10508-16	Sept.26		Owen	MVPI	Repair of damage; damage caused by seismic crews and equipment, borrow pits
75	11106-22	Oct.20		Parker Weeden	CARC CARC	Impact of increased human activity on caribou herds; compressor station activities; aircraft flights, surveillance flights along the pipeline
76	11146	Oct.21		Weeden Parker		Repair activities; damage and impact on tundra, vegetation communities
	11186-98			Weeden Parker		Major constructive projects required increased maintenance to roads and highways
	11257-88			Weeden Parker		Increased activity around caribou breeding and calving grounds; all-terrain vehicles, general harassment; access to the herds, hunting pressure
82	12176-77	Nov. 6		Williams	CAGPL	Some equipment not capable of air transport - impact on terrain
93	14120-24	Dec. 1		Gunn	CAGPL	Servicing of compressor stations; type of aircraft used
98	14902-04	Dec. 8		Gunn		Hovercraft, noise disturbance to birds
107	16327-28	Jan. 12		Templeton	EPB	Field manuals - Foothills plans , includes protection measures, optional measures and procedures; training program for workers
C-25	2547-49	Sept. 8	FS	Ellwood	Foothills	Gas leakage deflection, repair methods
114	17300	Jan.22	IN	Mainland	GPC-D-I	Taglu gas field, computer monitoring; maintenance workshops ; equipment duplication
115	17487-92	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, gravel requirements for maintenance
	17548-49			Stamberg	GPC-D-G	Parsons Lake gas field
116	17615-16	Jan.24		Bayly Stamberg	COPE/ITC	Amount of gravel needed to construct and maintain Parsons Lake site
	17681-82			Rempel	GPC-D-I	Oil spill clean-up equipment available
130	19778-79	Mar.16	YK	Williams	CAGPL	Additional equipment required because of cross-Delta routing; reduced requirements in Inuvik District, shorter route; barge with dredging equipment at Tununuk Point and/or Inuvik
131	19965-66	Mar.17		Williams	CAGPL	Amphibious equipment at Tununuk
132	20111	Mar.18		Williams		Maintenance equipment for use on Delta
161	24803-11	July 12		Carlson	CAGPL	Establishment of operating procedures, every piece of equipment; preventative maintenance programs
162	24958-59	July 13		Carlson		Possible use of steam ditching machine to aid in repair of line breaks
201	31798-99	Nov.16		Marshall	CAGPL	Access to compressor stations by both fixed wing aircraft, helicopters, necessary

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XXIV	2819	Apr.7	YK	Hardy	CAGPL	Specialized riggers to maintain bridges
XXIX	3624-31	Apr.14		Clark Hardy	CAGPL	Construction responsibility and design supervision responsibility
XXXIII	4286	Apr. 21		Dau	CAGPL	Estimate of personnel
40	5207-10	May 16		Hurd	CAGPL	Numbers and locations of personnel
	5221-23			Fielder	CAGPL	Supervision by division manager
	5238-42			Hurd		Standing orders, movement - major line repairs
41	5373-84	May 20		Bayly	COPE/ITC	Hiring northern residents
42	5387-89	May 21		Hurd		Housing for workers

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42	5394-95		May 21	YK	Carlson	CAGPL	Unmanned compressor stations
	5400-03				Bayly Hurd		Manpower to be used to fight fires
	5491-92				Hurd Scott	MVPI	Consultants, slope stability personnel
	5499-5500				Hurd		Personnel complement
C-11	1042-43	July 8	F. McP.		Blake	Citizen	Size of crew needed in case of fire
C-16	1500	July 13	O.C.		C. Blake	Citizen	Men needed in case of pipeline fire
63	8983	Sept.17	YK		Lazerte	Foothills	Placement of control room; living quarters; work force; capacity which can be quartered
	8989				Lazerte		Number of men which could be accommodated in compressor stations
	9045-49				Mirosh	Foothills	Requirements for monitoring manned compressor stations
67	9991-96	Sept.23			Mirosh		Description of types of inspectors on site & their power & responsibility re work stoppage
	10029-32				Mirosh	Foothills	Detailed description of inspectors at each spread
68	10041-42	Sept.24			Hushion	Foothills	Number of employees in administrative centres in NWT
	10064-66				Hushion		Requirements for division & district headquarters; housing
	10074-82				Hushion		Integration of northerners into administration; opportunities & advancement
	10106-09				Hushion		Numbers & qualifications of environmental & right-of-way engineers stationed in division & district offices
	10115-18				Hushion		Operation of unmanned water stations & compressors; labour requirements for progressing towards unmanned; control technicians
88	13240-44	Nov.17			Lawrence	Foothills	Operation of sewage treatment plants, personnel sewage capacity requirements
93	14090-92	Dec. 1			Hemstock	CAGPL	Monitoring programs; surveillance programs
C-27	2724-25	Sept. 10	FS		Workman	CAGPL	Positions filled by Northerners; percentage quota re: hiring; training programs
C-36	3501-03	Jan. 29	In.		Burrell	Citizen	District office, environmental inspection team
C-39	3732	Feb.18			Hill	Citizen	Utilization of northern business for maintenance of pipeline facilities.
114	17287	Jan.22			Mainland	GPC-D-I	Taglu gas field wells
	17294				Mainland		Taglu gas field, gas plant
	17411				Scott	MVPI	Taglu gas plant, 65 staff
	17440-41				Mainland Faulkner	GPC-D-S	Niglintgak gas field crew at gas plant, wells unattended
115	17515-16	Jan.23			Faulkner	GPC-D-S	Niglintgak gas field
	17578-81				Stamberg	GPC-D-G	Parsons Lake gas field, opportunities for native workers; numbers involved
116	17653	JAN.24			Rempel	GPC-D-I	Firearms for protection of personnel
130	19778	Mar.16	YK		Williams	CAGPL	Additional compressor station requires additional technicians
161	24777-A-78	July 12			Trusty	CAGPL	Employment beginning 1979, estimate of man-years needed per year; people in Inuvik, Norman Wells, Fort Simpson
	24809-11				Carlson	CAGPL	Northern Division Headquarters, Inuvik, number of employees, responsibilities
	24817-27				Carlson		Employment of northerners, competition with other projects for northern employees
	24828-36				Williams		Employees needed, upkeep of ROW
166	25681	July 20			Ellwood	Foothills	Foothills employees, inter-community mobility
170	26371-73	Aug 16			Burrell	Foothills	Northerners, training in order to take long-term jobs
	26434-45	Aug 17			Deyell	Foothills	Positions to be filled by experienced personnel and trainees
171	26542	Aug 17			MacLeod	Foothills	Number of positions held by Nortran employees

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XXXIV	4391	Apr. 22	YK	Dau	CAGPL	Possible incorporation of facilities with Fort Simpson
XXXIX	5138-41	May 15		Harlan	CAGPL	Erosion control measures - cost
	5149			Harlan		Use of equipment off ROW
41	5285-88	May 20		Hollingworth	Foothills	Arctic Gas personnel
42	5398-99	May 21		Hurd	CAGPL	Pipeline fires, equipment
	5436-37			Scott	MVPI	Compressor station shut down, start up, timing
43	5587	May 22		Horte	CAGPL	Handled internally by applicant
51	6796-98	Aug. 11	WH	Hemstock	CAGPL	Maintaining pipe and right-of-way areas; prevention and repair of soil erosion, slope stabilization; storage facilities, off-shore route causes greater effort and cost re: operation and maintenance
	6803-10			Hemstock		Impact -- environmental; comparison among routes and alternative corridors; restoration and slope stabilization, drainage control
	6844			Dau		Increased effort is attributable to an increased pipeline length; access especially the Interior route, Fairbanks and Fort Yukon corridors
53	7107	Aug. 13		Dau		Highway advantage for operations and maintenance of pipeline
54	7469	Aug. 11		Weeden	CARC	Operation and maintenance within the Arctic National Wildlife Range would reduce the value of the area; modification of existing natural conditions
	7509-10			Weeden		Offshore alternative system; repair and maintenance scheduling during July to mid-October if conventional marine repair techniques are utilized; ice conditions limit repair; critical break-up and freeze-up periods
C-21	2183-84	Aug. 9	NW	Burrell Rowe	Foothills CAGPL	Involvement of local industry
63	8906	Sept. 17	YK	Beer	Foothills	Electric motors may require use of gearbox and flexibility of operation and result in a complex control system
	9106-13			Beer		Sound levels of an emergency or maintenance blowdown
64	9404-06	Sept. 18		Claridge	Foothills	Observation of slopes; contingency plans
65	9609	Sept. 19		Bauer	Foothills	Greater equipment breakage in cold weather
66	9835	Sept. 22		Mirosh	Foothills	Maintenance of radio beacon equipment routine
67	9859	Sept. 23		Jarvis	Foothills	Repair of spots in snow roads & ice bridge construction
68	10037-230	Sept. 24		Jarvis		Cross-examination of Foothills Panel 11 (Operations & Maintenance)
75	11106-22	Oct. 20		Parker Weeden	CARC CARC	Impact of increased human activity on caribou herds; compressor station activities; aircraft flights, surveillance flights along the pipeline
76	11146	00ct. 21		Weeden		Repair activities; damage and impact on tundra, vegetation communities
	11186-98			Weeden Parker		Major construction projects required increased maintenance to roads and highways
	11257-88			Weeden Parker		Increased activity around caribou breeding and calving grounds; all-terrain vehicles, general harassment; access to the herds, hunting pressure
77	11373	Oct. 22		Marshall	CAGPL	East of Franklin route would cause logistic problems; problems in operations and maintenance activities
78	11623-24	Oct. 23		Minning	CAGPL	Flexibility in scheduling; repair re: revegetation, restoration to be made if failures occur; impact of operations to be minimal
	11660			Minning		Maintenance operations where possible to correspond with those times when conditions are least sensitive to environmental damage
80	11847	Nov. 4		Harlan	CAGPL	At breaks scour could present maintenance problem

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82	12261-64	Nov. 6	YK	Williams Hemstock	CAGPL CAGPL	Impacts and important risks involved
83	12402	Nov. 7		Scott	MVPI	Maintenance gravel stockpiles, Thunder River
87	13189-90	Nov.14		Drew	Foot- hills	Using terrain sensitivity ratings to find best maintenance route
88	13239-44	Nov.17		Lawrence	Foot- hills	Sewage lagoons, operation of treatment plants
98	14907-08	Dec.8		Scott Gunn	CAGPL	Impact on birds
99	15039-44	Dec.9		Hemstock		Contingency plans, formulation methods
	15054			Hemstock		Impact of patrols on wilderness values
100	15271-72			Bouckhout	Foot- hills	Impact assessment of operations and maintenance activities
104	15974-75	Dec. 16		Walker	CARC	Regulation of operation practices by an on-site environmental authority
106	16206	Dec. 18		Calef	CARC	Impact on caribou migration routes
	16224-25			Calef		Pipeline surveillance re: spring floods and erosion damage
	16255-56			Lent	CARC	Alyeska pipeline re: prevention of terrain damage in oil fields
108	16554	Jan. 13		Thomson	EPB	Alaska Highway - upkeep, maintenance; pipeline maintenance - repair of berm breaks, erosion
111	16929	Jan. 16		Calef	CARC	Operation of compressor stations, disturbance to caribou
C-24	2423-27	Aug. 23	TL	Hushion	Foothills	Operating headquarters in Yellowknife, district headquarters at Inuvik, Norman Wells, Fort Simpson; permanent jobs available
	2450-51		NB	Hushion		Permanent jobs available; training programs; AGTL experience
C-30	2897	Oct. 6	PP	Mirosh	Foothills	Maintenance personnel
	2916-17			Ellwood Carter	Foothills CAGPL	Permanent operating jobs
C-33	3111	Oct. 9	FS	Carter		Main centres at Inuvik, Norman Wells, Fort Simpson; employment re: operations and maintenance
114	17442	Jan.22	IN	Faulkner	GPC-D-S	Niglintgak gas field, workover of production wells
130	19778-79	Mar.16	YK	Williams	CAGPL	Plans related to cross-delta routing
132	20110-1	Mar. 18		Williams		Base at Tununuk Junction
134	20208-11	Mar. 24		Webb Jakimchuk	CAGPL CAGPL	Keeping maintenance of eroding west bank, Shallow Bay crossing to minimum to lessen impact on wildlife
162	24957-58	July 13		Carlson	CAGPL	Upkeep of airstrips

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XXIII	2688-92 2700-01	Mar.21	YK	Clark Williams	CAGPL CAGPL	Position of berm break; erosion problems, summer/winter Summer/winter servicing of line
40	5249-59	May 16		Hurd	CAGPL	Equipment for repairs
41	5333-35	May 20		Lucas	CARC	Completion of manual
	5372			Hurd		MOT regulations; manual preparation
42	5435-43	May 21		Scott	MVPI	Local section purging, compressor station purging, timing
	5467-68			Hurd		Environmentalists' input; patrols
	5472-80			Scott		On-ground maintenance, winter vs summer
	5487-89			Scott		Checking slope monitors
	5508-17			Scott Hurd		Pipeline failure
63	9150	Sept.17		Holtsbaum	Foothills	Cathodic units, test points, line surveys to monitor cathodic system of corrosion-prevention
132	20111	Mar. 18		Williams	CAGPL	Summer maintenance on Delta unlikely
	20150-51			Williams		Avoidance of summer maintenance of Niglintgak supply lateral if possible
161	24803-11	July 12		Carlson	CAGPL	Preventative maintenance programs

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40	5215-26 5236 5237-42	May 16	YK	Hurd	CAGPL	District superintendent, ground patrol Routine inspection Plans in case of major pipeline breaks
41	5309-11 5325-35 5350-65 5369-72	May 20		Hurd Lucas Lucas Bayly	CARC COPE/ITC	Line patrols, fixed wing aircraft/helicopters Environmental regulations, government bodies An example, break on North Slope Line patrol, altitudes
42	5391-98 5419-21 5438-43 5451-68 5483-92 5494	May 21		Fielder Hurd Hurd Scott Hurd Scott	CAGPL MVPI	Aircraft patrols, contingency flights Inspection of river crossings Maintenance flights, authorization by supervisory personnel Float-equipped aircraft; line patrol Data bank of the trench Patrols
C-14	1349-1351	July 11	O.C.	P. Nukon	Citizen	Patrolling the line, fires
C-16	1496	July 13		Rowe	CAGPL	Gas flow after pipeline break; line patrol to locate break
58	8246-49	Aug. 20	YK	Blair	Foothills	Foothills number of supervisory staff; responsibilities
54	7478	Aug. 14	WH	Weeden	CARC	Noise and disturbance caused by operation and maintenance operations; attempt to limit noise
61-A	8706	Sept.15	YK	Mirosh	Foothills	Intermediate block valves; inspection procedures and surveillance activities
63	8975-78 9024-26 9138-40	Sept.17		Mirosh Mirosh Shelton	Foothills Foothills Foothills	Meter and compressor stations to be unmanned; computer base system; gas dispatcher Preventative maintenance required at compressor stations; maintenance information system Pipe must be checked by manufacturers, after transport; hydro static testing and pigs to discover flaws; methods of detecting leaks described
65	9570	Sept.19		Claridge	Foothills	Repair of mound breaks if heave occurs
67	9972-74 9994-96 10030-32	Sept.23		Mirosh Mirosh Mirosh		Testing of pipe & welds Environmental inspectors on spreads - powers & responsibilities Inspectors at each spread; expertise & role
68	10097 10106-09	Sept.24		Hushion Hushion	Foothills	Foothills to maintain upkeep of land utilized Number & qualifications of environmental & right-of-way engineers stationed in northern offices
70	10503A-07	Sept.26		Owen	MVPI	Inspection of Pointed Mountain Line; Westcoast operations; Arctic construction; pipeline facilities
71	10602-05	Oct.14		Templeton Longlitz	EPB MVPI	Controls placed on the pipeline company; land use re codes; construction and use of snow roads; work stoppage due to break-up
81	11996-12000	Nov. 5		Williams	CAGPL	Environmental protection criteria
82	12248-56	Nov. 6		Hemstock	CAGPL	Monitoring: surveillance flights, seismic operations; regulatory responsibilities for damages incurred
100	15191-94	Dec.10		Bouckhout	Foothills	Decision-making process; regulatory agencies
114	17286-87 17299 17440-41	Jan.22	IN	Mainland Mainland Faulkner	GPC-D-I GPC-D-S	Taglu gas field, well clusters Taglu gas plant run from central control room Niglintgak gas field, gas plant, maintenance shop
115	17540-41	Jan.23		Stamberg	GPC-D-G	Barsons Lake gas field, computer control system

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115	17576-78	Jan. 23	IN	Stamberg	GPC-D-G	Parsons Lake gas field , computer control system, backup computer, spares kept on hand; automation
116	17654	Jan. 24		Rempel	GPC-D-I	Environmental training program for construction and operating personnel
132	20011-13	Mar. 18	YK	Williams	CAGPL	Inspection of cross-Delta pipe after construction
186	28829-31	Sept. 16		Basham	MVPI	Union involvement in operations and maintenance

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140	21423	Apr. 8	YK	Usher	COPE/ITC	Constant undermining of legitimacy of native organization
143	21844-83	Apr. 14		Russell	NWT IB/MA	Dene Land Claims Southern Support Group
144	22014-16	Apr. 15		Kurszewski	NWT IB/MA	Fitz-Smith Metis Community
145	22093-113	Apr. 26		Brownstone	Oxfam	Presentation by Oxfam
	22113-57			Clarke	NWT IB/MA	Presentation by Catholic and Anglican churches
	22131-38			Clarke		World Council of Churches; Brazilian National Foundation for the Assistance to the Indians (FUNAI)
	22141-42			Clarke		CIDA funding for Geological Survey study undertaken in Brazil
	22153			Brownstone		Regional structure of Oxfam
	22202			Clarke		Canadian Petroleum Association
146	22246-49	Apr. 27		McCullum	NWT IB/MA	Northern Flood Committee, Churchill River diversion project
	22253			McCullum		Northern Quebec Inuit Association
	22262			McCullum		Science Council of Canada
	22269-71			Jones	NWT IB/MA	Git-shan-Carrier Tribal Council
	22277			Jones		Git-shan-Carrier Tribal Council
	22279-81			Richardson	NWT IB/MA	James Bay Energy Corporation, James Bay Development Corporation
	22292			Richardson		System of committees, corporations to defend the traditional native cultures
	22301-04			Richardson		Soltrac, company set up to protect against negative impacts of James Bay development
	22309			Richardson		James Bay Development Corporation, criticism from Justice MaPuf
	22311-13			Young	NWT IB/MA	Northern Flood Committee, Manitoba Hydro Project
147	22373-75	Apr. 28		McCullum	NWT IB/MA	C.N.R. employed sociologist to examine conditions in Terrace, B.C.
	22406-16			Richardson	NWT IB/MA	James Bay Development Corporation, impact on Cree culture, economy
	22426-28			Richardson		Sotrac, organization to alleviate negative impacts on hunting, fishing and trapping at La Grande, P.Q.
	22429			Richardson		Quebec Indian Association, Grand Council of the Cree
	22440-441			Young	NWT IB/MA	Flood Committee, Manitoba
	22499			Nahanni	NWT IB/MA	Band Development Council, field workers, Land Use and Occupancy Research
148	22562	Apr. 29		Snowshoe	NWT IB/MA	Trappers Association
	22664			Rushforth	NWT IB/MA	Hamlet Trappers Association, caribou hunting
	22713			Asch	NWT IB/MA.	Community wide organizations, such as health and women's committee
149	22808-10	May 3		Simpson	NWT IB/MA	International Development Research Center; Cross-cultural center at the University of Western Ontario; African Students Foundation
	22816			Simpson		Development of large aid agencies
	22832			Simpson		Problems of aid agencies in assisting development projects: Third World countries
	22843			Simpson		World Bank, U.N. Organization, U.S. Aid, Ford Foundation
150	22866	May 4		Hills	NWT IB/MA	League of Nations, United Nations, International Labour Office, World Council of Churches
	22867-69			Hills		Woodward Commission, Australia; Guyana Lands Commission
	22876			Hills		FUNAI, Brazilian government agency responsible for native people

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150	22883	May 4	YK	Hills	NWT IB/MA	International Bauxite Producers Association; Amerindian Lands Commission
	22895			Hills		Woodward Commission, Australia aboriginal rights to land
	22901-03			Hills		Woodward Commission
	22918			Simpson	NWT IB/MA	P.N.G. plant, Alberta, hiring of native people
	22941			Cheezie	NWT IB/MA	Fort Smith local of the Metis Association of the NWT
	23023			Bean	NWT IB/MA	U.N. Conference on Human Settlements, Vancouver
151	23125-29	May 5		Cruikshank	CYI	International Highway Association of Yukon, Inc., Dawson City, 1929
	23162			Jacquot	CYI	Tlingit-Haida Association
152	23332-33	May 6		Notti	CYI	Alaska Native Foundation - definition of functions
	23361-71			Notti		Regional corporations in Alaska; present role of Alaska Federation of Natives
153	23432	May 7		Sharp	CYI	Creation of Yukon Native Brotherhood, 1969
C-50	4878	May 11	VAN	Dobyns	Citizen	Indigenous Peoples Council, proposals to the U.N.
	4932			D'Easum	Citizen	U.S. Environmental Protection Agency, warning on man's survival
	5067-70			Sakamoto	Citizen	Role of QUSO
C-51	5111-14	May 12		T. Pearse	Citizen	Columbia Cellulose, northwestern, British Columbia, Alcan Corporation; Crown Zellerbach, Bella Coola
	5124-25			B. Eriksen	Citizen	Downtown Eastside Residents Association, working in skid road area
C-53	5505	May 14	CAL	Greyeyes	Citizen	Calgary Urban Treaty Indian Alliance
	5523-31			Nickle	Citizen	OPEC, influences on prices
C-54	5605	May 17	EDM	Berlie	Citizen	Canadian Drilling and Research Association
	5648-49			Kuhu	Citizen	Project North
	5714			Starr	Citizen	International Courts at the Court of the Hague
	5725			Robertson	Citizen	Canadian Federation of Independent Businessmen
	5745-46			Spencer		CUSO
C-55	5807	May 18		B. Mardiros	Citizen	Canadian Petroleum Association
	5856-59			J. McDougall	Citizen	OPEC nations, oil embargo
C-56	6101	May 19	REG	F. Tompkins	Citizen	Mississippi Committee, public participation in decision making, Churchill River projects
C-57	6221-22	May 20	WINN	J. Ryan	Citizen	Canada must not be manipulated by foreign-owned multinational corporations
	6238			M. Haave	Citizen	Multinational corporations will benefit from pipeline development
154	23607-13	June 29	YK	Watkins	NWT IB/MA	Corporate performance, relationship with government
	23763-64			Forrest	NWT IB/MA	Alaska Federation of Natives; role in gaining land settlement
	23772-73			Forrest		NAACP, AFL-CIO, support for Alaska natives land claims
	23781-89			Forrest		Alaska Federation of Natives; Creation of regional corporations, Alaska
	23797-803			Forrest		Doyon Corporation, Alaska land claims settlement; Alaska Federation of Natives
	23818-27			Forrest		Alaska Federation of Natives, negotiations, land claims
155-A	23840-41	June 30		Jelliss	NWT IB/MA	Commco activities, distribution of economic rent
	23890-95			Jelliss		B.C. Petroleum Company, Amoco, Westcoast Transmission
	23896			Jelliss		Difficulty in understanding ownership of oil companies

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C-59	6414-15	May 26	TOR	N. Zlotkin	Citizen	Reed Paper Limited, mercury pollution, English River - Winnipeg River Systems
	6445-46			M. Clarke	Citizen	Project North, native land claims and northern development; Canadian Council of Churches
C-60	6635-36	May 27		R. Snyder	Citizen	Canadian Standards Association
	6697-701			J. Hart	Citizen	Tree of Peace, Yellowknife
	6868			P. Kelly	Citizen	Need for establishment of Northern native corporation, control of natural resources
C-62	6912-14	May 31	MTL	Delisle	Citizen	Indians of Quebec Association, attacking procedure of how James Bay Agreement was brought about
	6920-29			Perras	Citizen	Sidbec-Dosco, heavy user of gas in Quebec
	6933			Ponting	Citizen	Grant for study from Donner Canadian Foundation, University of Calgary
	6961			Genest	CAGPL	OPEC
C-63	6981	June 1		Schiblie	Citizen	World Food Conference, FAO, Rome 1974
	7007-08			Daigle	Citizen	Domtar; environmental standards should be established re pipeline, for early termination of construction
C-64	7206-36	June 3	OTT	Hatton	Citizen	Project North
	7244			Sarpei	Citizen	Supporting Project North, calling for a moratorium on resource development
	7246-53			Birnie	Citizen	Industrial Gas Users Association, member companies
	7253-66			Mosquin	Citizen	Canadian Nature Federation
C-65	7422	June 4		T. Hills	Citizen	Oxfam-Canada
C-66	7600-02	June 7	CH	D. Coffin	Citizen	UNCTAD IV Conference, call for a new economic order, limitations on strength, role in host countries
	7615			A. MacDonald	Citizen	PEI, Rural Development Council, citizen participation in planning
	7621-24			G. Webster	Citizen	PEI fisheries, impact of multi-national fishing operations, intensive competition; role in Chile
	7626			Sister M. Burge		Dislocation of communities, treatment of residents, employees; Falcon bridge of Canada, nickel mining in the Dominican Republic
C-67	7690-94	June 8	HAL	Hindson	Citizen	Canadian Steel Industry, Cansteel Corporation, offer to supply steel requirements for pipeline
162	25029	July 13	YK	Hollands	CAGPL	Alyeska, contact between Alaska Federation of Natives, prospective employee
165	25556	July 19		Burrell	Foothills	Great Northern Gas Utilities Limited, Plains Western Gas and Electricity Company Limited, design and cost estimations for Foothills
168	26162	July 22		Brophy	COPE/ITC	Pond Inlet, alcohol committee, use of Territorial Ordinance to control alcohol use
169	26249-50	July 23		Stanley	NWT IB/MA	Morongo Band, United States, formation of Malki Fruit Association; co-operation, Cattlemen's Association
	26278			Stanley		Cherokee Seven Clan Society
170	26451-56	Aug. 16		Burrell		Mackenzie Pipeline Business Opportunities Board
171	26553-54	Aug. 17		MacLeod	Foothills	Pipeline Advisory Committee, handling manpower delivery system
	26561-64			MacLeod		Business Opportunity Board, giving advice on investment incentive; Chamber of Commerce, safeguarding supply to local consumers
	26582-95			Dixon	MVPI	Fairbanks North Star Borough Assembly, Social Concerns Committee, establishment of Impact Information Center; dissemination of information, impact
	26608-19			Dixon		Problem of getting information from Alyeska and Pipeline; suggestions to improve data gathering and information flows

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171	26619-29	Aug.17	YK	Dixon	MVPI	Fairbanks North Star Borough, Information Impact Center, funding, scope of activities; local hire, minority hire; community planning
	26673-86			Dixon		Fairbanks, relationship between Impact Information Center and Chamber of Commerce, problems with autonomy; research problems
172	26697-703	Aug. 18		Dixon		Alaska, community based organizations doing research into rural impact of development; Tanana Chiefs Association could provide information for various studies
179	27743	Aug 27		Runge	MVPI	Dene Housing group, ITC, non-profit housing corporations
	27805			Runge		Dene Housing group, ITC, looking at design of units
	27820-21			Runge		Dene Housing group, IB/NWT, home ownership, transposing of southern standards
180	27832-34	Sept 7		Hodson	MVPI	Canadian Pipeline Advisory Council, establishment, funding, unions participating in Council
	27853-55			St. Eloi	MVPI	The United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of the United States and Canada, involvement in construction of transmission stations and plant facilities; survey underway of qualified pipeline welders available for work.
181	28075-78	Sept 8		McCambly	MVPI	Native Outreach Program, Alberta, similar one established in Territories, independent of unions, employers and government; counselling; role in manpower delivery system
	28123			Reimer	MVPI	Against multinational control in north
	28133			Reimer		Must investigate role of multi-nationals concerning energy
	28139-41			Reimer		Multinational petroleum corporation, epitome of capitalism, strong influence on government, will harm north and residents
182	28239-41	Sept 9		Forth	MHA/NWT	Canadian Mental Health Association, Mental Health, NWT, objectives and programmes
	28278			McCombs	MHA/NWT	Fairbanks Northstar Borough Impact Information Centre, observation of impact of Alyeska Pipeline on Fairbanks community
	28301			McCombs		Alyeska Pipeline Service Corporation, funding of alcoholism programme for pipeline workers
	28305-09			Forth	MHA/NWT	Mental Health Association, distribution of members, programmes, native or non-native members predominant; transmitting information to communities
	28388-90			Clarke	COPE/ITC	Central Mortgage and Housing Corporation, programmes: log housing method, homeowners' grant
184	28481-89	Sept 14		Atcheson Kehoe	COPE/ITC COPE/ITC	Comments on recommendations of NWT Mental Health Association, approve philosophy, some problems with methods
188	29218-31	Sept 21		Neakok	COPE	Creation of circumpolar Inupiat assembly to develop, with multi-national oil industry, single set of rules for industry to follow
189	29293	Sept 22		Hill	NWT/AM	Formation of NWT Association of Municipalities
189A	29467-68			R. Worl	COPE	Regional corporations to administer Alaska land and moneys, Arctic Slope Regional Corporation
192	29878	Oct 4		Baring-Gould	MVPI	Alaska Humanities Forum, production of film
195A	30698-700	Oct. 7		Fowler Daniels	CAGPL CAGPL	Brown and Root, Williams Brothers, Alaska Inc., pipeline experience in the North
	30711-14			Dau	CAGPL	History of Williams Brothers Canada; arctic constructors involved in Alyeska pipeline
197	31079-80	Oct.13		Rogol	MVPI	Public Interest Research Group, functions
201	31808-09	Nov.16		Gibbs	Foothills	Boards, programs originated by Alberta Gas Trunk

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XXXVI	4665-67	May 12	YK	Lucas	CARC	Request from CARC for funds
	4674-80			Genest	CAGPL	Opposed to motion to adjourn formal hearings
	4687-88			Genest		Commission Council ready for cross examination?
XXXVIII	4977	May 14		Marshall	CAGPL	Horte panel; summary of evidence
XXXIX	5091-92	May 15		Marshall		Alyeska - no snow roads
40	5180	May 16		Marshall		Operations and Maintenance Panel
41	5273-83	May 20		Fielder	CAGPL	Fielder - maps on U.S.S.R. pipelines
	5328-31			Fielder		Policy matters; releasing reports of pipeline failures
	5380			Marshall		Evidence of Training Programs, unions
42	5528-72	May 21		Genest		Horte, evidence in chief
	5571-72			Genest		Looping, application under Territorial Lands Act
43	5575-79	May 22		Genest		Manpower requirements, looping; Williams, evidence in chief
	5579-92			Horte		Direct evidence, Mr. Horte
44	5151-53	May 23		Genest		Violations of environmental legislation
	5782-89			Bell	NWT IB/MA	Application for ROW
	5859			Genest		Meetings, route selection
	5875-76			Genest		Environmental advisors
45	5881-82	May 24		Genest		Land use application for survey near Fort Good Hope
49	6569	June 5		Marshall		Government - CAGPL meeting re: pipeline/highway route
C-I	43-46	Apr. 2	Aklavik	Hemstock	CAGPL	Proposed routes for the pipeline
C-4	180-186	May 28	Hay River	Williams	CAGPL	Route of pipeline; shipping, stockpile site, impact on Hay River
	200-204			Williams		Crossing of Mackenzie with bridge at Fort Providence
C-4	214-218			Williams		Double jointing, shipping through Hay River
	234-236			Williams		Number of barges, tugs, crews
	317-325			Workman	CAGPL	Applicant's training program
C-5	428-430	May 29		Workman	CAGPL	Applicant's training program
	437-441			Workman		Turnover in training program
	444-454			Williams		Consortium; planning; stretching the schedule
	465-474			Carter	CAGPL	Policy on Canadian, American gas; markets
C-11	985-89	July 8	F. McP.	Berger		CAGPL representatives at hearings
	1033-48			(Carter) (Workman)		Present at Fort McPherson hearings
C-12	1106-09	July 9		Workman		Pipeline failures, repairs
	1140-45			Workman		Nor-Tran training program
C-13	1200-1206	July 10		Carter		Looping, compressor stations
	1247			J. Martin	Citizen	Consortium
C-14	1349-51	July 11	O.C.	Rowe	CAGPL	Fire fighting, line patrols
C-15	1400-02	July 12		Rowe		John Russell, employment by Renewable Resources
C-16	1493-99	July 13		Rowe		Buried pipeline, lightning strikes
56	7881-82	Aug. 18	YK	(Goldie) (Scott)	CAGPL MVPI	Questioning the validity of Foothills submission of exhibits relating to West Coast Transmission Company
57	7948-8004	Aug. 19		Goldie	CAGPL	Cross-examination of Blair
	8006-8112			Goldie		Cross-examination of Blair
58	8116-42	Aug. 20		Goldie		Cross-examination of Blair
	8191-94			(Marshall) (Berger)	CAGPL	Discussion of areas of future gas reserves and sources; Arctic Islands
	8207-11			Marshall	CAGPL	Amendments to procedural rules; filing of evidence
59	8310-11	Aug. 21		Marshall	CAGPL	Mandate of the Inquiry; N.E.B. to decide Canada's gas supplies and needs; timing of up-coming phases
	8390-8467			Marshall	CAGPL	Cross-examination of Mirosh, Fawcett, Bouckhout, Gillespie, Drew - Foothills Panel 3

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51	6763-6827	Aug.11	WH	Marshall	CAGPL	Evidence in chief of Dau, O'Rourke, Williams, Clark, Hemstock, Banfield
	6827-72 6872-81			Gibbs Anthony	Foothills CARC	Cross examination of Dau and panel
52	6906	Aug.12		Marshall		Objection to discussion of impact of oil pipeline
	6961-71			Marshall		Unwillingness to provide uniform cost analyses of alternate and prime routes
	7001-03			Marshall		Objection to CYI cross-examination re: quantifying value of wildlife
53	7075	Aug.13		Marshall		Objection re: socio-economic veto of pipeline
	7209-22			Carter	CAGPL	Cross-examination of Magistrate Sprecker
53-A	7309-27	Aug.13		Marshall		Cross-examination of CARC panel re: routing and Arctic National Wildlife Range
	7348-50			Marshall		Re-examination of CARC Panel re: routing and Arctic National Wildlife Range
54	7397-7427	Aug.14		Marshall		Procedural cross-examination of V. Geist
	7437-38			Marshall		Cross-examination of Geist
	7515-17			Marshall		Procedural re- cross-examination of witnesses
	7552-55			Marshall		Procedural; appearance and cross-examination of witnesses
	7555-88			Marshall		Cross-examination of Weedon,Parker
55	7589-91	Aug.15	YK	Marshall		Re-appearance of witnesses
	7646-67			Banfield Marshall	CAGPL CAGPL	Evidence in-chief
C-18	1799	Aug.5	FGH	Carter	CAGPL	Explanation of Route maps
	1822-26			Rowe	CAGPL	Method of crossing Hare Indian River
	1827-29			Rowe		Borrow sites, Fort Good Hope
C-19	1853-58	Aug.6		Rowe		Discussion of borrow sources near Fort Good Hope
C-20	1931-35	Aug.7		Carter	CAGPL	Response re: dropping land use application to drill test holes at Fort Good Hope
C-21	2082-89	Aug.9	NW	Rowe		Operations and sites - Norman Wells
	2120-21			Carter		Reserve estimates; project cost
	2181-92			Rowe		Employment of northerners; contracts to small businesses
	2200-01			Rowe		Camps in vicinity of Norman Wells
	2200-02			Rowe		Access of workers; firearms
C-22	2243-48	Aug.11	WH	Carter		Length of spreads; construction methods
	2251-53			Workman	CAGPL	Compliance in camps with building and fire codes
	2263-68			Workman		Cost of gas to communities;route selection
C-23	2318-20	Aug.14		Hemstock	CAGPL	Location of Mackenzie crossing of Prudhoe Bay supply line
	2380-81			Hemstock		To investigate problem of drainage and mosquito increase
61	8595-97	Sept.15	YK	Marshall	CAGPL	Procedural matters; community hearings, united steel workers brief
	8551-91			Marshall		Cross-examination of Foothills Panel 4 - Mirosh,Lazerte, Hensch
61-A	8749-60			Marshall		Cross-examination of Foothills Panel 5 - Mirosh, Bauer, Walker, Glockner
62	8763-8788	Sept.16		Marshall		Cross-examination of Foothills Panel 5 - Mirosh, Bauer, Walker, Glockner
	8797-8808			Marshall Berger Gibbs	Foothills	Procedural matters; submission of tentative reports; alternative routes; Prudhoe Bay supply line
	8881-86			Marshall		Cross-examination of Foothills Panel 5 - Mirosh, Bauer, Walker, Glockner

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62	8903-41	Sept. 16	YK	Carter	CAGPL	Cross-examination of Foothills Panel 6 - Mirosh Scrimes
63	8967-68 9011-33	Sept. 17		Marshall Marshall	CAGPL	Proceeding scheduling; witnesses appearances Cross examination of Foothills evidence re compressor stations
	9074-82			Marshall		Presentation of evidence of Cross-Delta route change in January 1976 at Inuvik
	9153-9206			Marshall		Cross-examination of Foothills Panel 8
64	9207-25	Sept. 18		Marshall		Cross-examination of Foothills Metallurgy Panel (8)
	9265-67			Marshall		Cross-examination of Foothills Metallurgy Panel (8) resumed
	9316-9400			Marshall		Cross-examination of Foothills Geotechnical Panel 9
64	9436-51	Sept. 18	YK	Marshall	CAGPL	Cross-examination of Foothills Geotechnical panel 9 continued
65	9452-90	Sept. 19		Marshall		Cross-examination of Foothills Geotechnical panel 9 continued
	9638			Genest	CAGPL	Request from Foothills for Alyeska technical specifications
66	9648-9838	Sept. 22		Genest		Cross-examination of Foothills Construction panel
67	9975	Sept. 23		Marshall		Summary of CAGPL policy re methanol disposal
	10000-04			Marshall		Scheduling of witnesses; figures of construction force north of 60°
	10032-35			Genest		Permission to resume cross-examination of construction panel; cross-examination
68	10047-59			Carter	CAGPL	Cross-examination of Foothills Panel 11 (Operations & Maintenance)
	10128-70			Dau Williams	CAGPL CAGPL	Appearance of witness Dau, Williams re contractors estimates of spread productivity
	10184-87			Genest		Order of cross-examinations
	10208-21	Sept. 24		Genest		Cross-examination of Templeton (EPB)
69	10294-368	Sept. 15		Marshall		Cross-examination of Williams
	10499-501			Marshall		Cross-examination of Owen
71	10599-600	Oct. 14		Genest		Exhibits; procedural
	10623			Marshall		Posting of a performance bond by the pipeline companies
	10715-31			Marshall		Cross-examination of D. Longlitz
72	10753-55	Oct. 15		Marshall		Culverts, cross slope drainage; river crossings North Slope area
	10768-76			Marshall		Cross-examination of Lewis
	10788-81 2			Marshall		Cross-examination of Adam
73	10813-20	Oct. 16		Genest		Appearance of witnesses; procedural
	10820-970	Oct.		Marshall Genest		Hoekstra initial appearance; Clark, Morgenstern, Slusarchuk, Harlan, Hoekstra - Frost heave panel; a rebuttal to Dr. Williams testimony
	10857			Slusarchuk	CAGPL	Cross-examined by Gibbs
74	10971-11015	Oct. 17		Williams Genest		Williams evidence in - chief
75	11031-14	Oct. 20		Marshall		Cross-examination of Parker, Weeden
76	11142-66	Oct. 21		Marshall		Cross-examination of Parker, Weeden
	11221			Marshall		Procedural
	11248			Marshall		Exhibit 287 checked; cost breakdowns re: Fairbanks Corridor
	12277-78			Marshall		Act of Congress, Mineral Leasing Act Amendment of 1973 re: a pipeline can go through any federal lands; Wilderness Preservation Act
	12298			Marshall		Cross-examination of O. Hughes
	12213-23			Marshall		Procedural, briefing of witnesses, preparation of the case
	11336-38			Marshall		Recalling of witnesses re: response to Dr. Hughes' recommendations

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77	11372-78	Oct.22	YK	Marshall	CAGPL	Alternative transportation corridors; east of the Franklins; research; guidelines for northern pipelines; application to NEB, DIAND
	11379-410			Carter	CAGPL	Cross-examination of Rutter
78	11533-66			Carter		Cross-examination of Roed
	11609-74			Minning	CAGPL	Minning evidence in-chief
79	11675-11742	Nov. 3		Environmental Panel	CAGPL	Direct evidence
	11743-68			Minning Dabbs	CAGPL	Cross-examination by Hollingworth
80	11769-11847	Nov. 4		Environmental Panel Phase 2		Cross-examination by Hollingworth
	11769			Marshall	CAGPL	Amendment to Exhibit 57
	11848-11957			Environmental Panel Phase 2		Cross-examination by CARC
	11859-61			Marshall	CAGPL	Argument re line of questioning re procedure involved in Fort Simpson route change
	11886-89			Williams	CAGPL	Changes in route under consideration
81	11958-61	Nov. 5		Marshall		Clarification of evidence by Minning and Dabbs on borrow site at Shingle Point and revegetation
	11962-12016			Environmental Panel		Cross-examined by Anthony on impacts on land, air and water
	11973-74			Marshall		Order of Phase 2 cross-examination
	12004-05			Marshall		Associated Engineering Ltd. - studies of waste disposal
	12016-22			Environmental Panel		Cross-examination by Bell
	12022-12135			Environmental Panel		Cross-examination by Bayly
82	12136-55	Nov. 6		Environmental Panel	CAGPL	Borrow material required by CAGPL; revegetation
	12155-12205			Environmental Panel		Cross-examination by Veale on impact on physical environment
	12205-07			Dabbs	CAGPL	Resumed cross-examination by Hollingworth on table of seed mixes
	12207-12330			Environmental Panel		Cross-examination by Scott on impact to physical environment
83	12331-522	Nov.7		Environmental Panel		Cross-examination by Scott; revegetation, borrow pits
84	12523-80	Nov.8		Environmental Panel		Cross-examination by Anthony; spoil disposal; sub-riverbed water flow; gravel mining, active flood plain; ice bridges; siltation; water sources; location of camps; stream road crossings
	12580-609			Environmental Panel		Cross-examination by Bayly; borrow pits; compressor station water sources, requirements, impact on fish
85	12617-708	Nov.12		Environmental Panel	CAGPL	Spread "C", North Slope, water use, sewage, insects, birds, fish, river crossings, ground water, borrow, water pollutants, compressor noise, hydro-powered compressors
	12708-37			Environmental Panel		Impact on water resources, Blackwater River typical crossing, engineering details for crossings, locations, environmental information; water withdrawal, Firth River
85-A	12740	Nov.12		Marshall	CAGPL	Cross-examination schedule of Williams by Gibbs
	12741-801			Environmental Panel	CAGPL	Cross-examination by Scott; water withdrawal, Mackenzie Valley, North Slope, fish impact; siltation, fish impact, limits; compressor station emissions
86	12802-08	Nov.13		Environmental Panel		Cross-examination by Scott; river crossing design, fish impact; borrow sites

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86	12992-13048	Nov.13	YK	Williams	CAGPL	Cross-examination by Gibbs, Northern spreads, artificial lighting, working days, mileages, down time; Fort Simpson spread, snow roads, spread production rates
	13050-54			Williams		Cross-examination by Scott, Inuvik spread, work periods, miles completed, Foothills, CAGPL
87	13122-98	Nov.14		Environmental Panel	Foothills	Cross-examination by Carter and Marshall. re-vegetation, plant types; tests; archaeological surveys; borrow requirements; terrain sensitivity
88	13339-43	Nov. 17		Marshall	CAGPL	Porcupine herd evidence; report, aircraft movements, spreads
88A	13353-97	Nov. 17		Environmental Panel	CAGPL	Evidence in chief, impact on living environment
89	13398-13529	Nov. 18		Environmental Panel	CAGPL	Evidence in chief, impact on living environment
	13530-70			Dabbs	CAGPL	Cross-examination by Gibbs, revegetation
90	13571-13670	Nov. 19		Environmental Panel	CAGPL	Cross-examination by Anthony, impact on living environment
	13671-13722			Environmental Panel	CAGPL	Cross-examination by Bayly re impact on living environment
	13722-30			Dabbs Hemstock	CAGPL	Cross-examination by Goudge, re impact on vegetation
	13731-66			Hemstock McCart	CAGPL CAGPL	Cross-examination by Gibbs, monitoring; impact on fish
91	13767-13844	Nov. 20		McCart		Cross-examination by Anthony re impact on fish
	13845-92			Dau	CAGPL	Cross-examination by Gibbs re pipeline construction costs
	13893-95			Dau		Cross-examination by Goudge re pipeline costs
	13895-98			Dau		Cross-examination by Goudge, redirect by Marshall re pipeline costs, mileages
	13898			Dau		Cross-examination by Gibbs re sufficient reserves for 48-inch line
	13901-11			McCart Hemstock		Cross-examination by Bell re domestic fisheries losses, compensation, Peel River
	13912-55			McCart		Cross-examination by Bayly re fish movements knowledge, methanol impact
92	13956-14019	Nov. 21		Banfield Hemstock McCart	CAGPL	Cross-examination by Bayly
	14001-02			Marshall	CAGPL	Scheduling of hearings; hours of sitting
	14019-59			Banfield Hemstock McCart		Cross-examination by Ryder
	14060-61			Marshall		Scheduling of hearings, Mackenzie Delta
93	14062-65	Dec. 1		Marshall Hemstock		Fulfilling CAGPL undertakings, filing of exhibits
	14065-14101			Environmental Panel	CAGPL	Cross-examined by Ryder
	14101-24			Environmental Panel	CAGPL	Cross-examined by Hollingworth
	14125-96			Environmental Panel	CAGPL	Cross-examined by Bayly
94	14198-14203	Dec. 2		Marshall	CAGPL	Undertaking; discussion of the Delta Phase
	14204-14359			Environmental Panel	CAGPL	Cross-examination by Bayly
95	14360-14523	Dec. 3		Environmental Panel	CAGPL	Cross-examination by Bayly
	14529-35			Marshall		Appearance of CAGPL panel; alternative corridors; Whitehorse community hearings
96	14536-14703	Dec. 4		Environmental Panel	CAGPL	Cross-examination by Veale

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97	14710-20	Dec.5	YK	Banfield Jakimchuk	CAGPL CAGPL	40-Mile caribou herd; alleged Renewable Resources animal harassment; personnel flights to spreads; FPC report re Fairbanks route
	14720-34			Jakimchuk		Cross-examination by Bell re impact on moose
	14734-821			Environmental Panel		Cross-examination by Templeton re impact on living environment
	14822-61			Jakimchuk Gunn	CAGPL	Cross-examination by Scott, impact on caribou, birds
98	14862-63	Dec.8		Marshall		Gas plant lines, Shell in Delta, Gulf at Parsons Lake
	14863-15006			Environmental Panel		Cross-examination by Scott re impact on living environment
99	15007-22	Dec.9		Marshall	CAGPL	Request for reports from Foothills, Inquiry; reports from CARC not produced; Geist report not produced; distribution of Biological Report series
	15013-21			Marshall Scott	MVPI	Reports not produced
	15022-104			Environmental Panel	CAGPL	Cross examination by Scott re impact on living environment
100	15212-14	Dec.10		Marshall		Request for C.W.S. studies of Bluenose caribou herd
	15271-83			Marshall		Cross examination of Bouckhout, Whitney (Foothills), impact on living environment
101	15389	Dec.11		Marshall		Obtaining CARC reports
	15458-60			Marshall		Report on Bluenose herd; obtaining CARC reports
	15473-510			Marshall Carter	CAGPL	Cross examination of Zoltai, Peterson on terrain, vegetation, pipeline guidelines
102	15689-96	Dec.12		Carter		Cross examination of Novakowski re IBP sites; corridor planning, for wildlife; fisher, wolverine, wolf
103	15712	Dec.15		Marshall		Tabling reports
	15798-840			Marshall		Cross examination of Stein, incomplete
104	15954	Dec.16		Marshall		Reference to study re chemical nature of material in inner pipe coating
105	15996-16074	Dec.17		Marshall		Cross-examination of Stein, Walker, Steigenberger, Miller
	16128			Marshall		Undertaking accessibility of major linebreak or wash-out by line crew, repair
106	16156-57	Dec.18		Marshall		Re caribou panel
	16164			Carter		Comment on usual presentation by Lent
	16277-79			Marshall		Report left with Hutchinson re "Ornithological Studies, Cross-Delta Route", December 1975; materials from McCart not received yet
107	16341-42	Jan.12		Marshall		Joining of Dr. Thomson to the EPB panel
108	16496-532	Jan.13		Marshall Carter		Cross examination of EPB Environmental Panel
109	16723	Jan.14		Workman	CAGPL	Response to EPB for past consultation and performance at the Inquiry
110	16785-87	Jan.15		Marshall		Appearance of witnesses
	16881-906			Carter		Cross examination of Bergerud, Calef, Lent
	16895-98			Carter Marshall		Recommendations, undertaking by Jakimchuk, McCart, Gunn
111	16907-31	Jan.16		Carter		Cross examination of Calef, Bergerud re impact on caribou
	16912			Jakimchuk		Explaining slide on Porcupine herd calving grounds
C-24	2421-34	Aug. 23	TL	Rowe	CAGPL	Representing Arctic Gas at the Trout Lake community hearing
	2441-43		NB	Rowe		Representing Arctic Gas at the Nahanni Butte community hearings
	2448-50			Rowe		Employment opportunities; training programs
C-25	2473-76	Sept. 8	FS	Workman		Proposed route re: Fort Simpson, measures taken to avoid environmental damage
	2492-93			Workman		Construction timing re: balance of payments with U.S., project cost

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C-25	2513-73	Sept. 8	FS	Workman	CAGPL	Delta gas reserves; second gas pipeline for looping; staging site, camp site re: Fort Simpson; camp medical facilities; camp site abandonment - building utilization; CAGPL ownership, financing; pipeline related training programs: peak construction labour force, hiring policy; Fort Simpson as a trans-shipment point; gas pipeline abandonment, failure re: impact, detection; measures to control workmen entering Fort Simpson: environmental consultants re: capacity to assess environmental question
	2605			Workman		Quantity of crude oil going into motor oil
C-26	2615-17	Sept. 9		Workman		Summary of pipeline proposal
C-27	2722-26	Sept. 10		Workman		Comments on union, hiring policies re: Northerners, training programs
	2750-70			Workman		Financing project; equity money; Gemini North re: economic consultant; cost of pipeline; land claims re: settlement
C-30	2897-2900	Oct. 6	PP	Carter	CAGPL	Proposed routes, gas distribution - U.S., Canada, feeder lines policy, highway use, labour considerations
	2916-74			Carter		Permanent operating jobs; reduction of turnover rate; pipeline looping policy (general); proposed route, pipeline design, feeder line policy, total project cost and per cent Canadian content; gas reserves - duration of pipeline operation
C-33	3110-12	Oct. 9	FS	Carter		Summary of proposal
	3120-23			Carter		Employment during and after construction, training programs, Adult Vocational Training Centre, contractors, development of businesses
C-34	3240-44	Oct. 15	YK	Workman		Resumé of project re: source and delivery of gas via pipeline; critical environmental areas, permafrost, compressor stations, native employment, training programs
	3281-85			Workman		Prevention, combat of pipeline rupture, coping with forest fires caused by rupture, use of rologons, pipeline splits
	3289-92			Workman		Threshold limit of gas supply; worthwhile investments re: Canadian and American gas
	3304-05			Workman		Will supply gas to communities, if economical
	3377	Oct. 16		Workman		Northwest Territories' proposal to tax pipeline company
C-35	3388-90	Oct. 22	LI	Carter		Pipeline design, operations and maintenance, personnel requirements, native training programs
	3413-15			Carter		Measures to control outside workers from entering communities
	3415-18			Carter		Nortran program-trainee employment policy
	3423-28			Carter		Quantity of money spent in NWT to date by applicants
	3431-32			Carter		CAGPL policy re: hire, training of women
C-36	3504-11	Jan. 29	In.	Workman		Gas delivery, pipeline design, pipeline route-environmental considerations; campsite locations, personnel management; measures to prevent environmental disturbance; Nortran program; Canadian balance of trade; native employment commitment; position on land claims
	3544-49			Workman		Hire of natives vs. northerners; CAGPL ownership; revenue from gas delivery to United States, improvement of standard of living; union involvement in construction
C-37	3566-71	Feb.10		Workman		Proposed pipeline route, manpower requirements, pipeline design, avoidance of environmental disturbance benefits re Canada's balance of payments
	3575-76			Workman		CAGPL manpower requirements in the north
	3581-82			Workman		Pipeline benefits - service industry, increased employment opportunities, Canada's balance of payments
	3604			Workman		Guarantee of employment for northerners
	3612-16			Workman		Distribution of gas revenue from the United States

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C-38	3626-27	Feb.12	IN	Rowe	CAGPL	Project description, employment at Inuvik during operations phase
	3643-50			Rowe		Distribution of gas revenue received from United States; compensation to natives re disturbance of livelihood; tax payment to communities
	3662-65	Feb.15		Rowe		Pipeline employment, union considerations
	3677-78			Rowe		Pipeline burial to avoid ice scouring; use of tankers in Shallow Bay
	3680			Rowe		Compensation for pipeline damages
112	17092	Jan. 20		Marshall	CAGPL	CAGPL involved with studies at U. of Saskatchewan on waste heating greenhouses
113	17185-86	Jan. 21		Marshall		Cross-examination of Hobart (GPC-D), consequences of no further oil/gas development in Delta
115	17592-600	Jan. 23		Marshall		Admissibility of COPE/ITC witnesses' evidence
116	17655-73	Jan. 24		Marshall		Delta Environmental Protection Unit; effects of off-shore construction on whale distribution and behaviour
117	17775	Jan. 26		Marshall		Filing of Arctic Gas's Environmental Statement, cross-Delta alternative
	17793			Marshall		"The Study of the Distribution and Movement of Snow Geese, Other Geese and Whistling Swans of the Mackenzie Delta, Yukon North Slope and Alaskan North Slope in August and September, 1975", relative to cross-Delta
	17837			Marshall		Response to report of Van Ginkel and Associates Ltd.
	17876			Marshall		Evidence in phase four, Van Ginkel report
	17903-04			Marshall		Shortage of skills on pipeline, availability of workers
122	18488	Feb.11		Carter	CAGPL	Filing of exhibits # 452,453
	18642-46			Marshall		Cross-examination of Stein
	18867-68			Marshall		Representation of industry in regional planning
125	19024-25	Feb.14		Marshall		Cross-examination of Shearer
126	19230-52	Feb.16		Marshall		Cross-examination of Pettigrew, Snow
127	19365	Feb.17		Marshall		Relevancy of evidence re seismic permits
128	19494-98	Feb.18		Marshall		Cross-examination of Trudeau
	19553-54			Marshall		Cross-examination of Milne
	19580			Marshall		Objection to evidence re Canmar program
129	19634-35	Feb.19		Marshall		Objection to proposed evidence of Nicol re relevance to inquiry
	19719-30			Marshall		Cross-examination of Inglis, Speller
130	19735-780	Mar.16	YK	Marshall Engineering Panel		Letter from Marshall to Scott re CAGPL'S cross-Delta route refinements; evidence in chief re cross-Delta route
	19739-40			Marshall		Omission of some of Webb's whale evidence; CAGPL witnesses will comment on Barry Route, settlement in Shallow Bay, corridor concept
131	19840-981	Mar.17		Engineer- ing Panel	CAGPL	Cross-examination by Gibbs re cross-Delta route
	19981-20006			Engineer- ing Panel		Cross examination by Lane re cross-Delta route
132	20008-14	Mar.18		Engineer- ing Panel		Cross-examination by Lane re cross-Delta route
	20014-152			Engineer- ing Panel		Cross-examination by Goudge re cross-Delta route
133	20118-21	Mar.23		Marshall		Contingency plans for oil spills, availability; presentation of cross-Delta route environmental panel, filing exhibits
	20121-64			Environmental Panel	CAGPL	Evidence-in-chief re impact of cross-Delta route
	20165-207			Environmental Panel		Cross-examination by Bayly re cross-Delta route
134	20207-A-79	Mar. 24		Environ- mental Panel		Cross-examination by Bayly re cross-Delta route

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134	20280-347	Mar. 24	YK	Environmental Panel	CAGPL	Cross-examination by Hollingworth re cross-Delta route
	20348-98			Environmental Panel		Cross-examination by Scott re cross-Delta route
135	20401-11	Mar. 25		Marshall	CAGPL	Admissibility of COPE/ITC evidence on petroleum development, western Arctic
	20425-29			Marshall Gunn Webb	CAGPL CAGPL CAGPL	Will supply: Jakimchuk's recommendations re mammals; reports on water availability, North Slope; report on pipeline noise studies; Gunn's information on moulting waterfowl, Shallow Bay; Webb's additional recommendation re whales, Shallow Bay
	20429-513			Environmental Panel		Cross-examination by Scott re cross-Delta route
	20532-45			Hemstock	CAGPL	Cross-examination by Bayly re cross-Delta route
	20515-32			Environmental Panel		Cross-examination by Hollingworth re Niglintgak supply lateral; cross-Delta route
	20546-64			Hemstock		Cross-examination by Scott re impact of cross-Delta route
136	20605-27	Mar. 25		Environmental Panel	CAGPL	Re-examination by Marshall re cross-Delta route
	20635-53			Marshall		Cross-examination of Sprague (MVPI) re water quality criteria
	20718-21			Carter	CAGPL	Cross-examination of Peet (MVPI) re impact on fisheries
137	20770	Apr. 5		Marshall		Objection to proposed evidence of Nicol on Mizushima oil spill in Japan
	20788-93			Marshall		More objection to Nicol's evidence; filing of exhibits; 524-29
	20862-70			Marshall		Cross-examination of Davies
138	20996			Carter		Correction re Cinq-mars relationship to Arctic Gas, Northern Yukon research program report by Hemstock to be filed when completed
139	21169-72	Apr. 7		Carter		Cross-examination of Stephen
	21188-93			Carter		Cross-examination of Heacock
140	21277-79	Apr. 8		Carter		Cross-examination of Nicol
	21369			Carter		Filing of exhibit - letter from R. P. Jakimchuk to J.J. Marshall re Dr. V. Geist report
142	21520-23	Apr. 13		Steeves	CAGPL	Mitigating policies; material to be presented in Phase 4
	21526-663			Virtue Ciroux Behn	Nortran Nortran Nortran	Nortran Training Program
143-A	21874-76	Apr. 14		Steeves		Cross-examination of Russell, witness for NWT IB/MA
144	21947-48	Apr. 15		Steeves		Cross-examination of Sanders, witness for NWT IB/MA
	21963-65			Steeves		Cross-examination of Sanders, witness for NWT IB/MA
145	22160-73	Apr. 26		Steeves		Cross-examination of panel of NWT IB/MA witnesses representing Oxfam, churches
	22192-93			Steeves		Cross-examination of witnesses
	22208-10			Steeves		Cross-examination of witnesses
147	22379-95	Apr. 28		Steeves		Cross-examination of Jones re fishing cannery, ownership of fishing grounds
	22463			Steeves		Witnesses, Jones, Young, speaking from personal experience, not as observers
148	22567-76	Apr. 29		Steeves		Cross-examination of Nahanni as to methodology used during the Land Use research
	22614-19			Steeves		Continuation of cross-examination of Nahanni

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149	22798-800	May 3	YK	Steeves	CAGPL	Cross-examination of Ritler, Sittichinli, witnesses for NWT IB/MA
150	22887-900 22924-28 23011-24	May 4		Steeves Steeves Steeves		Cross-examination of Hills, witness for NWT IB/MA Cross-examination of Simpson, NWT IB/MA Cross-examination of Bean, Cheezie, Kurszewski of NWT IB/MA
151	23033-35 23041-42 23188-204 23211-12	May 5		Steeves Steeves Steeves		Cross-examination of Bean, Cheezie, Kurszewski Question re procedure, witnesses Cross-examination of Smith, Lueck, CYI Cross-examination of Smith, Lueck, CYI
152	23213-14 23252-94 23302-10 23371-74 23398-99	May 6		Steeves Steeves Steeves Steeves		Procedural - prejudice in issuance of construction permit prior to land claims settlement Cross-examination of McClellan, Johns, Jacquot Addressing question of prejudice re land claims proposal Procedural - recall of Notti Will not apply for route down Fairbanks corridor, does not support Veale's motion to hold hearings in Yukon communities
C-40	3838-46 3841	Feb.23	AK	Rowe Rowe	CAGPL	Answered questions from Archie, Father Adam, F. Elanik, Kayutak Noise of pipeline under river
C-41	3955	Mar.3	HOL	Marshall	CAGPL	Comment on beluga whales near Reid Island
C-42	4117-18	Mar.5	SACHS	Rowe		Community freight not affected by pipeline, decrease in freight cost
C-45	4352-54	Mar.10	TUK	Carter	CAGPL	Response to Berger's request re Schwartz's evidence on whale study by Brodie; Slaney and Company's report entitled "Environmental Impact Assessment, Immerk Artificial Island Construction, Mackenzie Bay, N.W.T."; Webb to be called as witness in phase 4
C-47	4556 4623-24	Mar.13	ARR	Carter Carter		Possibility of break in gas pipeline, effects on air, animals Response to suggestion by W. Simon that route be moved further east of Travailant Lake
C-48	4689-91	Apr.30	FS	Rowe		Summary of proposal, impact on Fort Smith, chances for involvement
C-50	4978-86	May 11	VAN	Horte	CAGPL	Discussing CAGPL motives, not profiteers, source of funds
C-51	5146-53	May 12		Hemstock	CAGPL	Environmental studies, Arctic Gas
C-55	5919	May 18	EDM	J. Harvey		Moral and ethical issues, need for suggestions to avoid mistakes
C-60	6748-56	May 27	TOR	V. Horte		Land claims; need for gas supply; government financing
C-62	6954-63	May 31	MTL	Genest	CAGPL	Role of CAGPL
155	23705-10 23712-10 23751-58 23816-24	June 30	YK	Steeves Steeves Steeves Steeves		Cross-examination of Puxley, Watkins Cross-examination of Puxley, Watkins Re admission of evidence from Hellwell, NWT IB/MA Cross-examination of Forrest
155-A	23872 23891-93			Steeves Steeves		Should have a discussion of Inquiry rules outside formal proceedings Cross-examination of Jelliss
C-64	7269-74 7349-55	June 3	OTT	Hollands Wilder	CAGPL CAGPL	Training programs, employment Land claims
C-67	7744-51	June 8	HAL	Hollands		Response to Rohmer's brief
157	24048 24057-139	July 5	YK	Steeves Steeves		Cross-examination of Thompson Introduction of Dr. Hobart; evidence in chief from Hobart

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158	24140-50-A 24158	July 6	YK	Steeves Steeves	CAGPL	Evidence in chief, Dr. Hobart Comment on letter from June Helm to Michael Asch
	24241-71			Steeves		Evidence in chief from Trusty
159	24298-357	July 7		Steeves		Evidence in chief from Boorkman, J. Weinstein, Trusty
160	24671-710			Steeves		Cross-examination of Asch, Rushforth
161	24770-827	July 12		Williams Trusty	CAGPL CAGPL	Evidence in chief
162	25008-09			Steeves		Presentation of "A Labor Manual, Pipeline Contractors Association of Canada"
	25048-97			Steeves	CAGPL	Evidence in chief of Hobart, Trusty
163	25098-192	July 13		Hobart	CAGPL	Evidence in chief
	25293-95			Steeves		Admissability of Helliwell's evidence
166	25763-72	July 20		Steeves		Cross-examination of Burrell
C-68	7845-49	July 16	FP	Horte	CAGPL	Concern that native people have opportunity for long term jobs; training, hope that natives will move into senior positions
	7849-54			Wirth	CAGPL	White discrimination against natives; numbers involved in construction, unskilled vs. skilled workers; staging area at Axe Point
	7858-63			Wirth		Staging site at Axe Point, camp and barge facility; temporary nature of most of the facilities
	7865-68			Wirth		Response to proposal that Hay River, Fort Simpson be used as staging areas rather than Axe Point
	7878-85			Horte		Supply of gas to communities
	7897-917			Horte		Hiring in the south; storing of barges in the winter
C-69	7947-48	July 17	KL	Ellwood	Foothills	Explanation re proximity of pipeline to community
C-71	7996-98	Aug 10	RE	Workman	CAGPL	Discovery of gas, transportation via pipeline; measures taken to ensure safety of environment, animals, and people: benefits of pipeline construction to natives
	8002-03			Workman		Description of CAGPL's proposed pipeline route; pipe burial
	8009			Workman		Valves on pipelines to control break
C-72	8083	Aug 11		R. Arrowmater	Citizen	Little chance of rust on pipeline to cause pollution
C-75	8345	Aug 21	CL	Carter	CAGPL	Compensation for hunting and trapping
C-76	8353-56	Aug 26	DET	Steeves		Deny storing pipe in Delta, specifications of pipe, possibility of break
173	26891-923	Aug. 19	YK	Steeves Steeves		Problems with frost heave, concern of NEB Cross-examination of Kylo, Dittrich
174	27053-69	Aug. 20		Steeves		Cross-examination of Lainsbury, Dusel, Dalby
	27152-92			Steeves		Cross-examination of Blair
175	27278-92	Aug 23		Carter		Cross-examination of Hinchey, Ashton, MacLeod
177	27499-502	Aug 25		Steeves		Cross-examination of Wood
	27550-54			Steeves		Cross-examination of Galloway, Schuette, Purdy
179	27815-16	Aug 27		Steeves		Cross-examination of Lowing, Runge, will file correspondence with Lowing, Runge
180	27889-915	Sept 7		Steeves		Cross-examination of Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi.
	27972			Steeves		Construction workers allowed access to three of the larger communities
181	28052	Sept 8		Steeves		Commendation of evidence of McCambly and LeClair
	28146-52			Steeves		Clarifying terms of reference of Inquiry re MVPI, national interest, land claims
	28172-74			Steeves		Possibility of one big union
184	28512-27	Sept 14		Steeves		Cross-examination of Atcheson, Kehoe

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185	28732-34	Sept 15	YK	Steeves	CAGPL	Cross-examination of Hildes, Mayhall, Schaefer, Cass, Noble
187	29114-17	Sept 17		Steeves		Cross-examination of Falk
188	29125-31	Sept 21		Steeves		Cross-examination of Searle
189	29451-53	Sept 22		Ziskrout	CAGPL	Cross-examination of Goulet, Harris
192	30050-59	Oct 4		Ziskrout		Cross-examination of Krauss, Ritter
193	30248-62	Oct 5		Steeves		Cross-examination of EPB Panel
194	30347-71	Oct.6		Hemstock	CAGPL	Evidence in chief
195	30471-573 30584-646	Oct.7		Steeves Steeves Marshall		Cross-examination of Mirosh, Byers, Kosten NES test results on frost heave in error; further test results to be cited at NEB hearings; evidence in chief of Johanson, Fowler, Walker, Daniels, Rymes, Dau
196	30912-27A	Oct.12		Steeves		Cross-examination of Thompson, MacLeod, Skinnarland
199	31468-69 31487-93 31496	Oct.15		Steeves Steeves Steeves		Position of CAGPL on delay of Commission Counsel Report Has provided information re fault in test cells in questions of frost heave Zone of continuous permafrost, ice-rich soil
200	31635-715	Nov.15		Genest	CAGPL	Final submission
201	31716-799	Nov.16		Genest Marshall		Final submission

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XV	1622-23 1719-21	Mar.11	YK	Anthony Anthony	CARC	Filing of exhibits, Sections 4, 5, 6 Cross delta route change
XVI	1815-74	Mar.12		Anthony		Cross-Examination of Dau and Panel 1
XVII	1883 - 1886 - 98 2004-08	Mar.12		Anthony Anthony Anthony		Cross delta route change, recall of Panel 1. Cross-examination of Dau and Panel 1 Minutes of meeting between Government and Arctic Gas
XX	2294-95 2406 2409	Mar.18		Anthony Anthony Anthony		CAGPL undertakings, April 1973 meeting; cross delta route Filing of May 1972 meetings minutes as Exhibits 79,80 Re: need for extra sittings of hearings
XXI	2413-14	Mar.19		Anthony		Availability of federal government reports
XXI	2547-2670	Mar.20		Anthony		Cross-examination of Clark & Panel 2
XXIII	2671-73	Mar.21		Anthony		Filing of exhibits
XXV	2962-64	Apr.8		Anthony		Alignment sheets re: highway location
XXVII	3302-05	Apr.10		Anthony		re Test site selection, Sans Sault
XXIX	3566	Apr.14		Marshall	CAGPL	Anthony's question of site selection
XXXI	3882-3994	Apr.16		Anthony		Cross examination of Purcell and Panel 3
XXXII	4000-03 4168-84 4222-24	Apr.18		Anthony Anthony Anthony		Cross examination: Purcell and Panel 3 Presentation of corridor concept motion-timing Presentation of corridor concept motion-timing
XXXIV	4375-76 4376	Apr. 22		Marshall Marshall	CAGPL	Information requested by Anthony, additional pipeline topography, location of Mackenzie Highway Master Index Map, Gas Pipeline Route Alignment and Terrain Data Sheets
XXXV	4651-52	Apr. 23		Bell	NWT IB/MA	Representing CARC - statement re finding and participation
XXXVI	4655-68 4678-80 4683 4685-86 4690-91 4697-99	May 12		Lucas Genest Scott Lucas Lucas Lucas	CARC CAGPL MVPI CARC	Motion to adjourn formal hearings for 2 weeks Letter to A. Thompson (CARC) from CAGPL Representatives of environmental groups Not prepared for cross examination of panel Scale of participation Cross examination dependant upon NAG
XXXVII	4700-03	May 13		Scott	MVPI	Professor Lucas, proposed adjournment
XXXVIII	4843-4942	May 14		Lucas		Cross examination of Dau and Panel 4
XXXIX	5059-67	May 15		Lucas		Cross examination of Dau, O'Rourke, Williams

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41	5325-65	May 20	YK	Lucas	MVPI	Cross examination of Operations and Maintenance Panel
43	5708-09	May 22		Lucas		Environmental impact prediction, economic, financial matters
44	5751	May 23		Lucas		Conviction for violation of environmental legislation
49	6453-57	June 5		Anthony	CARC	Undertaking May 15 re: Alyeska snow roads
	6508-6620			Anthony		Cross examination of Horte
50	6622-44	June 6		Anthony		Cross examination of Horte
58	8180-8204	Aug. 20		Anthony		Cross-examination of Blair
59	8314-15	Aug. 21		Anthony		Need to prepare evidence and cross-examination should matters concerning N.E.B. assessment of Canada's gas reserves and needs be included in the Inquiry
	8467-72			Anthony		Cross-examination of Mirosh
51	6871-81	Aug. 11	WH	Anthony		Anthony cross-examing CAGPL Panel - Dau, O'Rourke, Williams, Clark, Hemstock, Banfield, Trusty
52	6882-6960	Aug. 12		Anthony		Cross-examination of CAGPL alternative routing panel
53	7171-75	Aug. 13		Anthony		Request for Foothills' evidence on alternate routes
	7222-24			Anthony		Cross-examination of magistrate Sprecker
	7260-83			Anthony		Direct evidence on alternative routes
53-A	7285-7309			Panel	CARC	Alternate Routing and Arctic Wildlife Range
	7309-27			Marshall	CAGPL	Cross-examination of routing panel
	7327-33			Hollingworth	Foothills	Cross-examination of routing panel
	7333-40			Bayly	COPE/ITC	Cross-examination of routing panel
	7340-42			Veale	CYI	Cross-examination of routing panel
	7343-48			Goudge	MVPI	Cross-examination of routing panel
	7351-95			Geist	CARC	Direct evidence
54	7397-407	Aug. 14		Anthony	CARC	Procedural; appearance of witnesses
	7437-38			Marshall		Cross-examination of Geist
	7447-555			Weeden Parker	CARC CARC	Evidence in chief
	7515-17			Anthony		Procedural; appearance of CARC witnesses for cross-examination
	7554-55			Anthony		Procedural; cross-examination of witnesses
	7555-88			Marshall		Cross-examination of Weeden, Parker
55	7592-646	Aug. 15		Hughes Morlan	CARC CARC	Evidence in chief
C-23	2316-24	Aug. 14		A. Fekete	Citizen	Questioning Leonard re impacts on waterfowl
	2359-60			Berger		Funding to provide input at Inquiry
69	10445	Sept. 25	YK	Goudge	MVPI	Procedural; CARC evidence
75	11025-31	Oct. 20		Weeden Parker		Evidence in chief
	11031-141			Weeden Parker		Cross-examined by Marshall
	11037-48			Marshall		Statement of Weeden's position and that of State of Alaska; list of publications, reports, studies
	11083-84			Anthony	CARC	Reports and studies mentioned by Weeden, Parker to be noted, and detailed so as to make references available
	11093			Anthony		Environmental evidence re: Phase 2 and 3
	11138-40			Anthony		Scheduling of witnesses
	11144-179			Weeden Parker	CARC CARC	Cross-examined by Marshall
76	11150-52	Oct. 21		Anthony		Filing of documents before F.P.C.; availability of information
	11166-68			Anthony		State of Alaska policies; evaluation to take place by the Federal Power Commission; El Paso route; alternate routes; witnesses' opinions
	11174-76			Anthony		Studies, research re: ultimate study, effects of a pipeline
	11179-206			Parker Weeden		Cross-examined by Veale

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76	11211-24	May 20	YK	Parker Weeden	CARC CARC	Cross-examined by Bell
	11224-47			Parker Weeden		Cross-examined by Bayly
	11248-51			Parker Weeden		Cross-examined by Hollingworth
	11251-98			Parker Weeden		Cross-examined by Scott
	11298			Hughes	CARC	Cross-examined by Marshall
	11298-338			Hughes		Cross-examined by Scott
	11314-23			Anthony	CARC	Briefing of witnesses; preparation of the case;
77	11343-73	May 22		Rutter	CARC	Evidence in-chief
	11378-79			Rutter		Cross-examined by Bell
	11379-410			Rutter		Cross-examined by Carter
	11410-17			Rutter		Cross-examined by Hollingworth
	11417-42			Rutter		Cross-examined by Scott
	11443-88			Roed	CARC	Evidence in-chief
78	11489-504	Oct. 22		Roed		Cross-examined by Bayly
	11504-33			Roed		Cross-examined by Hollingworth
	11533-66			Roed		Cross-examined by Carter
	11566-608			Roed		Cross-examined by Goudge
80	11833-39	Nov. 4		Anthony	CARC	Request for route changes advised by environmental consultants for CAGPL before decisions finalized
	11848-11957			Anthony		Cross-examination of CAGPL Panel 2
81	11962-12016	Nov. 5		Anthony		Cross-examination of CAGPL Panel on impacts of pipeline on land, air and water
84	12523-80	Nov. 8		Anthony		Cross-examination of CAGPL panel on impact on physical environment; spoil disposal; sub-riverbed water flow; gravel mining, active flood plain; ice bridges; siltation; water sources; location of camps; stream road crossings
90	13571-13670	Nov. 19		Anthony		Cross-examination of CAGPL panel, impact on living environment
91	13767-13844	Nov. 20		Anthony		Cross-examination of McCart re impact on fish
96	14707-09	Dec. 4		Marshall Hollingworth	CAGPL Foothills	CARC to have presented reports;
99	15013-21	Dec. 9		Marshall Scott	CAGPL MVPI	Reports not produced
101	15383-89	Dec. 11		Anthony		Reply to Marshall re: obtaining CARC reports,
	15403-72			Anthony Zoltai Peterson	CARC CARC	Combined phase 2 & 3 panels, Evidence in Chief
	15473-510			Zoltai Peterson	CARC CARC	Cross-examination by Marshall, Carter on terrain, vegetation, pipeline guidelines
	15511-33			Peterson Zoltai		Cross-examination by Scott re pipeline guideline drafting; terrain problems; DOE Task Force on Pipeline Assessment
	15533-41			Zoltai		Cross-examination by Lutes re terrain problems
102	15543-47	Dec. 12		Zoltai Peterson		Cross-examination by Lutes re using abandoned CNT line; monitoring at proposed Willow Lake IBP site
	15547-87			Peterson Zoltai		Cross-examination by Bayly re pipeline guidelines; IBP sites; regulations; vegetation; terrain
	15588-611			Peterson		Cross-examination by Ryder on sensitive areas to be avoided, proposed IBP sites
	15612-60			Novakowski	CARC	Evidence-in-chief, rare and endangered species
	15660-65			Novakowski		Cross-examination by Lutes re game management, community lateral impact, IBP sites
	15665-89			Novakowski		Cross-examination by Bayly re impact on living environment; IBP sites
	15689-96			Novakowski		Cross-examination by Carter re IBP sites; corridor planning for wildlife; fisher, wolverine, wolf

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102	15696-705	Dec.12	YK	Novakowski	CARC	Cross-examination by Ryder re wildlife protection legislation; ROW mammal population, trapping; muskrat importance, trapping
	15705-06			Anthony Novakowski	CARC	Redirect examination of Novakowski by Anthony re Willow Lake IBP site
	15707			Novakowski		Recross-examination by Lutes re borrow pits in proposed IBP sites
103	15798-99	Dec. 15		Stein	CARC	Cross-examined by Bell
	15799-840			Stein Millen	CARC	Cross-examined by Marshall
104	15841-70	Dec. 16		Stein		Cross-examined by Bayly
	15870-78			Stein Walker Steigenberger Millen	CARC CARC	Evidence in Chief
	15878-975			Stein Walker Steigenberger Millen		Cross-examined by Bayly
105	15976-96	Dec. 17		Stein Walker Steigenberger Millen		Cross-examination by Hollingworth
	15996-16073			Stein Walker Steigenberger Millen		Cross-examination by Marshall
	16062			Anthony	CARC	Bryan Report re site-specific recommendations
	16074-125			Stein Walker Steigenberger Millen		Cross-examination by Ryder
	16125-26			Stein		Cross-examination by Hollingworth
	16126-27			Anthony		Re caribou panel
	16128-52			Lent Calef	CARC CARC	Evidence in Chief
106	16155-56	Dec. 18		Anthony	CARC	Re caribou panel
	16158-87			Lent	CARC	Evidence In Chief
	16187-240			Calef	CARC	Evidence In Chief
	16241-77			Lent		Cross-examination by Bayly
107	16280-336	Jan. 12		Anthony		Introduction of new director of NAG - Dr. D. Pimlott; tabling of papers presented at the CARC conference; filing of maps re: terrain sensitivity; filing of reports; cross-examination of Templeton, Adam, McTaggart-Cowan, Wilimovsky, Craik, Bliss, Gourdeau - EPB Environmental Panel
110	16740-71	Jan. 15		Bergerud	CARC	Evidence-in-chief
	16772-81			Lent		Evidence-in-chief
	16781-84			Calef		Evidence-in-chief
	16788-45			Bergerud Lent Calef		Cross-examination by Bayly
	16845-67			Bergerud Lent Calef		Cross-examination by Veale
	16867-80			Bergerud Lent Calef		Cross-examination by Hollingworth
	16881-906			Bergerud Lent Calef		Cross-examination by Carter
	16895-98			Anthony		Recommendations to the Inquiry; undertaking by McCart, Jakimchuk, Gunn
111	16907-31	Jan. 16		Calef Bergerud		Cross-examination by Carter re impact on caribou
	16931-60			Calef Bergerud Lent		Cross-examination by Ryder re impact on caribou, reindeer

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122	18564-641	Feb.11	IN	Evans	CARC	Cross-examination of Barry, Stein, Sergeant, Grainger, Stirling
123	18755-70	Feb.12		Evans		Cross-examination of Yates
124	19005-16	Feb.13		Evans		Cross-examination of Milne
125	19019-24	Feb.14		Evans		Cross-examination of Lewis, Shearer
	19081-82			Evans		Cross-examination of Lewis
126	19143-203	Feb.16		Evans		Cross-examination of Pettigrew, Snow, Logan
127	19345-71	Feb.17		Evans		Cross-examination of Longlitz
	19410-32			Evans		Cross-examination of Monaghan
128	19478-91	Feb.18		Evans		Cross-examination of Trudeau
	19521-24			Evans		Cross-examination of Trudeau
	19528-43			Evans		Cross-examination of Milne
129	19661-92			Evans		Cross-examination of Inglis, Speller
136	20665	Mar. 26	YK	Sprague	MVPI	CARC would be good independent body, inspect, monitor, audit project
C-50	4910-13	May 11	VAN	Evans Pimlott	CARC	Offshore drilling, Canadian Arctic
C-51	5205-11	May 12		Pimlott		Role in the Inquiry, work of, Northern Assessment Group
	5310-13			Pimlott		Government funding for public interest organizations
C-55	6016-20	May 18	EDM	E. Peterson	CARC	Establishment, role of CARC
C-59	6530-32	May 26	TOR	D. Pimlott	CARC	Need to inventory petroleum resources
C-61	6860-63	May 28		D. Pimlott		Over emphasis on short-term gas situation
C-63	7045-47	June 1	MTL	Gourdeau	CARC	Explaining role and aims of CARC
C-64	7267-69	June 3	OTT	Pimlott	CARC	Roles of DIAND, conflicting interests
	7360-64			Pimlott		Need for environmental policy
196	30766-886	Oct.12	YK	Evans	CARC	Evidence in chief, Thompson, MacLeod, Skinnarland
	30868			Evans		Submission by Moyes "The environmental watchdog: a mechanism for involving the public in the Mackenzie Valley" presented in Vancouver during southern hearings; papers by Beauchamp, Beakhust Usher filed with Inquiry
	30897			Evans		Response to Scott's query re CARC's position on licensing by authority or Inland Waters Review Board
	30972			Evans		Copy of government's report on authority options will be sent to Evans
198A	31460-67	Oct.14		Evans		Discussion about delay of Commission Counsel Report
202	32009-64	Nov.17		Anthony	CARC	Final submission
203	32065-119	Nov.18		Anthony		Final argument

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XV	1655	Mar.11	YK	Bayly	COPE/ITC	Exhibits 66, 67 not received
	1740-42			Bayly		Filing of accurate summaries of witnesses' presentations
XVII	1946-2004	Mar.13		Bayly		Cross examination of Dau and Panel 1
XVIII	2011-46	Mar.14		Bayly		Cross examination of Dau & Panel 1
	2121-22			Bayly		Mackenzie Highway alignment sheets - examination
XX	2410	Mar.18		Bayly		Re: need for extra sittings of hearings
XXIV	2763	Apr.7		Scott	MVPI	Introduction of L.Lane appearing for Bayly
	2764-65			Lane	COPE/ITC	Late submission of CAGPL reports
	2778-2876					Cross examination of Clark & Panel 2
XXXII	4017-73	Apr.18		Bayly		Cross examination: Purcell and Panel 3
	4191-95			Bayly		Presentation of corridor concept motion-timing
XXXIV	4433	Apr. 22		Bayly		Spread camps.
XXXV	4652-53	Apr. 23		Bayly		Statement re: funding and participation
XXXVI	4672-74	May 12		Bayly		Support motion to adjourn formal hearings
XXXVIII	4822-43	May 14		Bayly		Cross examination: Dau and Panel 4

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41	5368-84	May 20	YK	Bayly	COPE/ITC	Cross examination: Operations and Maintenance Panel
42	5387-5421	May 21		Bayly		Cross examination: Operations and Maintenance Panel
44	5828-80	May 23		Bayly		Cross examination of Horte
45	5882-5965	May 24		Bayly		Cross examination of Horte
C-I	21-26	Apr. 2	Aklavik	Bayly		Questions to lead evidence
	32-39			Bayly		Route around Parsons Lake; telegram to Territorial Employees
	52			Bayly		Questions to lead evidence
	61-63			Bayly		Questions to lead evidence
	66			Bayly		Questions to lead evidence
C-II	93-97	Apr. 3		Bayly		Questions to lead evidence
	103-05			Bayly	COPE/ITC	Questions to lead evidence
58	8237-52	Aug. 20	YK	Lane	COPE/ITC	Cross-examination of Blair
59	8315	Aug. 21		Lane		Delay needed to prepare should evidence pertaining to N.E.B. assessment of Canada's gas supply and needs be included in the Inquiry operations
	8478-80			Lane		Cross-examination of Panel 3
53	7078-7143	Aug. 13	WH	Bayly		Cross-examination of alternate routing panel (CAGPL)
	7239-46			Bayly		Cross-examination of magistrate Sprecker
	7333-40			Bayly		Cross-examination of CARC routing - Arctic Wildlife Range panel
54	7428-31	Aug. 14		Bayly		Geist Cross-examined by Bayly
C-23	2359-60			Berger		Funding provided for participation
61	8691-93	Sept. 15	YK	Bayly		Cross-examination of Mirosh, Hensch, Lazerte
62	8789-8823	Sept. 16		Bayly		Cross-examination of Mirosh, Bauer, Walker, GGlockner
	8947-57			Bayly		Cross-examination of Mirosh, Scrimmes - Foothills Panel 6
63	9033-60	Sept. 17		Bayly		Cross-examination of Panel 7 Foothills pipeline design
	9078-82			Berger		COPE to present evidence on Delta impact and community hearings - January, 1976
64	9228-40	Sept. 18		Bayly		Cross-examination of Foothills Metallurgy panel (8)
	9267-71			Bayly		Cross-examination of Foothills Metallurgy panel (8) continued
	9401-36			Bayly		Cross-examination of Foothills Geotechnical Panel (9)
66	9777-98	Sept. 22		Bayly		Cross-examination of Foothills Panel 10 (Construction)
68	10064-82	Sept. 24		Bayly		Cross-examination of Foothills Panel 11 (Operations & Maintenance)
	10163-70			Bayly		Cross-examination of CAGPL (Dau & Williams resumed) re contractors estimates of time frame
	10193-10202			Bayly		Cross-examination of Templeton (EPB)
69	10454-99	Sept. 25		Bayly		Cross-examination of Owen
72	10612-687	Oct. 14		Bayly		Cross-examination of D. Longlitz
	10691-711	Oct. 15		Bayly		Cross-examination of D. Longlitz
	10759-67			Bayly		Cross-examination of P. Lewis
73	10817-20	Oct. 16		Bayly		Appearance of witnesses; procedural
76	11224-47	Oct. 21		Bayly		Cross-examination of Parker, Weedon
78	11489-504	Oct. 23		Bayly		Cross-examination of Roed
81	12022-12135	Nov. 5		Bayly		Cross-examination of CAGPL Environmental Panel (Phase 2)
82	12137-55	Nov. 6		Bayly		Cross-examination of Dabbs and Minning
84	12580-609	Nov. 8		Bayly		Cross-examination of CAGPL Panel on impact on physical environment; borrow pits; compressor station water sources, requirements, impact on fish
85	12617-708	Nov. 12		Bayly		Cross-examination of CAGPL panel on impact on physical environment; Spread "C", North Slope, water use, sewage, insects, birds, fish, river crossings, ground water, borrow, water pollutants, compressor noise, hydro-powered compressors

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86	12891-991	Nov.13	YK	Bayly	COPE/ITC	Cross-examination of physical environment impact panel, Foothills
87	13059-122	Nov.14		Bayly		Cross-examination of physical environment impact panel, Foothills
90	13671-722	Nov.19		Bayly		Cross-examination of Dabbs (CAGPL), revegetation
91	13790-93	Nov.20		Bayly		Cross Delta route, impact information prior to selection as prime route, decision making process
	13912-55			Bayly		Cross-examination of McCart re knowledge of fish movements
92	13956-14019	Nov.21		Bayly		Cross-examination of Banfield, Hemstock, McCart (CAGPL)
	14002-04			Bayly		Scheduling of hearings; hours of sitting; possibility of a caribou panel
93	14125-96	Dec.1		Bayly		Cross-examination of Banfield, Gunn, Hemstock, McCart, Jakimchuk - CAGPL Environmental Panel
94	14199	Dec.2		Bayly		Assessment of new gas plants during the Delta phase
	14204-359			Bayly		Cross-examination of Banfield, Gunn, Hemstock, McCart Jakimchuk - CAGPL Environmental Panel
95	14360-523	Dec.3		Bayly		Cross-examination of Banfield, Gunn, Hemstock, McCart Jakimchuk - CAGPL Environmental Panel
97	14757-59	Dec.5		Bayly		Terms and conditions, recommendations from expert witnesses as aid to Inquiry
98	14862	Dec.8		Bayly		CARC evidence, fish panel
99	15013-21	Dec.9		Bayly		Anthony (CARC) will reply to CAGPL question next day; difficulty obtaining CAGPL evidence summaries, Biological Report series
	15135-85			Bayly		Cross-examination of Foothills Environmental Panel re impact on living environment
100	15186-270	Dec.10		Bayly		Cross-examination of Foothills environmental panel re impact on living environment
102	15547-87	Dec. 12		Bayly		Cross-examination of Peterson, Zoltai re pipeline guidelines; IBP sites; regulations; vegetation; terrain
	15665-89			Bayly		Cross-examination of Novakowski re impact on living environment; rare and endangered species; IBP sites
104	15841-70	Dec. 16		Bayly		Cross-examination of Stein
	15878-975			Bayly		Cross-examination of Stein, Steigenberger, Walker, Millen
106	16241-77	Dec. 18		Bayly		Cross-examination of Lent
107	16365-406	Jan. 12		Bayly		Cross-examination of EPB Environmental Panel
108	16407-15			Bayly		Cross-examination of EPB Environmental Panel
110	16788-849	Jan. 15		Bayly		Cross-examination of Bergerud, Calef, Lent
C-39	3755-58	Feb.18	In	Bayly Usher	COPE/ITC	Evidence presented by native groups about land claims
	3779-803			Bayly		Hunting, trapping, fishing by natives, traditional lifestyles, development benefits
112	17070	Jan.20		Bayly		More evidence from Bliss than anticipated, difficulty responding immediately
	17072-116			Bayly		Cross-examination of Bliss re environmental impact on Mackenzie Delta
113	17186-266	Jan.21		Bayly		Cross-examination of Hobart on socio-economic situation in Mackenzie Delta
	17249			Bayly		Letter to Gale Noble re terminations in Nortran program
114	17307-87	Jan.21		Bayly		Cross-examination of Mainland, Stewart (GPC-D-1) re Taglu gas field, drilling, gas plant, etc.
115	17449-79	Jan.23		Bayly		Cross-examination of Faulkner, Serra (GPC-D-S) re Niglintgak gas field development
	17485-507			Bayly		Cross-examination of Faulkner, Serra re Niglintgak gas field development
	17555-90			Bayly		Cross-examination of Stamberg, Scott, Good, (GPC-D-G) re Parsons Lake gas field development

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115	17595-601	Jan.23	IN	Bayly	COPE/ITC	Relevance of evidence of COPE/ITC witness Shaw, "Handling of hazardous materials in oil and gas field development in Alberta"; possibility of objections to witness Shearer's evidence
116	17605-31	Jan.24		Bayly		Cross-examination of Scott, Stamberg, Guyn and Good re transportation of gas plant construction modules, barging and/or scaling; production of sulphur compounds; gravel for construction and maintenance, sources; back-filling sumps, gravel requirements; frequency of barge traffic, impact on whales; production of liquid hydrocarbons; equipment and safety requirements for local transporters of construction goods; prepared work pads, waste disposal; topping plant
	17681-87			Bayly		Cross-examination of Appleton, Rempel, Webb and Wopnford re equipment for oil spill clean-up; use of dispersants
	17698-733			Bayly		Cross-examination of Appleton, Rempel, Webb, Wopnford re contingency plans for oil spill; fuel transportation; chemical storage; Husky Lakes barging; environmental effects of sulphur dioxide; dust and plants; recreational fishing, regulations; terrain disturbances; flow lines and reindeer movement; training programs; grizzly bears; beluga whales
	17748-56			Bayly		Cross-examination of Appleton, Rempel, Webb, Wopnford re beluga whales, calving, choice of Shallow Bay, impact of loss of habitat, response to disturbance, survival rate and birth rate of calves
117	17760-65	Jan.26		Bayly		Cross-examination of Wopnford, Webb, Rempel, Appleton re fish overwintering, effect of sand removal; helicopter restrictions in Kendall Island Bird Sanctuary, disturbance, critical bird areas
	17874-917			Bayly		Cross-examination of Sider, Tod, Wopnford, re impact on health, education, politics, housing, family and community life, culture
	17917			Bayly		Hobart's study of Coppermine; Gemini - North report, employment; Nortran; labour force, availability
	17917			Bayly		Evidence from Shearer, Shaw, Martell, Pimlott to follow
118	17918-19	Jan.27		Bayly		Filing of evidence, Percy, Smith; reports appended to Martell evidence
	17919-46			Bayly		Cross-examination of Sider, Tod, Wopnford re unions and agreements; transportation in Tuktoyaktuk; physical, social, economic problems in Inuvik; land use
118	17999-18066	Jan.27	IN	Bayly		Cross-examination of Czaja, Horsfield, Motyka re barging; land use; seismicity; hydrate fires; exploratory drilling; gas plants; native employment, training; contingency plans; artificial islands, drilling
119	18103-19	Jan.28		Bayly		Evidence-in-chief from Shearer
	18141-79			Bayly		Evidence-in-chief from Shaw
	18171			Bayly		No sulphur compounds in gas fields
	18200-56			Bayly		Evidence-in-chief from Pimlott
120	18257-60	Jan.29		Bayly		Scheduling of hearings of Arctic Waters Oil and Gas Advisory Committee, effect on Inquiry
	18310			Bayly		Cross-examination of Martell
121	18360-487	Feb.10		Bayly		Evidence-in-chief of Percy, Grainger, Stein, Barry, Sergeant
	18404			Bayly		Scheduling of evidence-in-chief and cross-examination of Dr. Sterling; definition of biological terms (by Grainger)
122	18488-551	Feb.11		Bayly		Evidence in chief of Sergeant, Smith, Stirling
	18509			Bayly		Definition of term - "intraspecific stress"
123	18729-30	Feb.12		Bayly		Filing of exhibits
	18763-64			Bayly		Role of MVPI re assessment of decision making processes in development, recommendations to the government
	18770-858			Bayly		Cross-examination of Yates, Elkin
124	18871-994	Feb.13		Bayly		Evidence-in-chief of Shearer, Lewis, Milne
125	18084-142	Feb.14		Bayly		Evidence-in-chief of Pettigrew, Snow

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127	19313	Feb.17	IN	Bayly	COPE/ITC	Pimlott's book "Oil Under the Sea", tabled as exhibit
	19314-44			Bayly		Evidence-in-chief from Longlitz
	19388			Bayly		Availability of "Oil Exploration and the Banks Landers " by Simmons and Barry; "The Effects of Oil Exploration Activities on the Caribou, Musk-ox and Arctic Foxes on Banks Island", report of NWT Game Management Division
	19388-410			Bayly		Evidence-in-chief from Monaghan
	19444-45			Bayly		Re-examination of Monaghan
	19445-77			Bayly		Evidence-in-chief from Trudeau
128	19478	Feb.18		Bayly		Exhibit tabled, "The Effect and Fate of Crude Oil Spilt on Two Arctic Lakes" by Snow and Scott
	19523			Bayly		Decisions made by Land Use Advisory Committee
	19524-26			Bayly		Effect of seismic on fish stock, depletion, constant; filing of Martell's letter as exhibit
	19526-28			Bayly		Evidence-in-chief from Milne
	19588			Bayly		Conclusion of COPE evidence except Usher and Courneyea, and Nickle of Environment Canada
129	19635-36	Feb.19		Bayly		Relevancy of proposed evidence of Nicol
	19692-719			Bayly		Cross-examination of Inglis, Speller
131	19981-20006	Mar.17	YK	Lane	COPE/ITC	Cross-examination of CAGPL engineering panel re cross-Delta route
132	20008-14	Mar.18		Lane		Cross-examination of CAGPL engineering panel re cross-Delta route
	20086			Lane		Requesting promised lists of Jakimchuk's and McCart's recommendations to CAGPL
133	20116-18	Mar.23		Scott	MVPI	Intention to present evidence on Mizushima oil spill
	20165-207			Bayly		Cross-examination of CAGPL environmental panel re cross-Delta route
134	20207-A-79	Mar. 24		Bayly		Cross-examination of CAGPL environmental panel re cross-Delta route
135	20401-25	Mar. 25		Bayly Marshall Hollingworth Bell Scott	CAGPL Foothills NWT IB/MA MVPI	Admissibility of COPE/ITC evidence on petroleum development, western Arctic
	20426			Bayly		Opportunity to ask questions re Jakimchuk's recommendations to CAGPL
	20532-45			Bayly		Cross-examination of Hemstock re cross-Delta route, I.B.P. sites
136	20602-04	Mar. 26		Berger		Will admit COPE evidence on western Arctic petroleum development
	20660-77			Bayly		Cross examination of Sprague (MVPI)re water quality criteria
	20729			Bayly		Cross- examination of Peet (MVPI) re impact on fisheries
137	20769-70	Apr. 5		Bayly		Distribution of : curriculum vitae of Nicol, letter from L. Allison to D. Stephen, draft of evidence of D. Mackay
	20773-86			Bayly		Reasons for relevancy of proposed evidence of Nicol on Mizushima oil spill in Japan
	20815-37			Bayly		Cross-examination of Davies
138	20918	Apr. 6		Bayly		Filing of reply from Dr. Stephen to Allison
	21036-80			Bayly		Cross-examination of Simmons, Mossop, Stephen, Norton
139	21081-196	Apr. 7		Bayly		Cross-examination of Simmons, Mossop, Stephen, Norton
	21177-79			Bayly		Re-examination of Stephen
	21193-96			Bayly		Cross-examination of Heacock
	21204-62			Bayly		Evidence-in-chief of Nicol
140	21300-446	Apr. 8		Bayly		Evidence-in-chief of Usher, Noble, Allison, Cournoyea
141	21476	Apr. 9		Bayly		Fulfillment of undertaking- Vol. 140, p. 21474 re Foothills' intent to remove gas or oil having high sulphur compound content

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142	21559-98	Apr. 13	YK	Bayly	COPE/ITC	Cross-examination of Panel 1, Phase 4
143-A	21867-69	Apr. 14		Bayly		Cross-examination of Russell, witness for NWT IB/MA
144	21935-37	Apr. 15		Sanders	NWT IB/MA	Cross-examination of Sanders, witness for NWT IB/MA
148	22539-40	Apr. 29		Bayly		Cross-examination of Nahanni
152	23295-96	May 6		Bayly		Filing of exhibit
	23300-01			Bayly		Addressing question of prejudice re land claims proposal
	23350-61			Bayly		Cross-examination of Notti
	23394-97			Bayly		Support for Veale's motion that Inquiry visit Yukon communities re proposal by Northwest Pipeline and Westcoast Transmission to transport gas via Fairbanks corridor
153	23472-507	May 7		Bayly		Cross-examination of Sharp
C-40	3816-19	Feb. 23	AK	Bayly Usher	COPE/ITC	Presentation of evidence of Aklavik Hunters, Trappers and Fishermen; maps of traditional hunting and fishing areas; report accompanying maps "Eskimo Land Use and Occupancy in the Western Arctic" by Usher
	3823-24			Usher		Description of traplines on map for Archie; caribou, geese, whale hunting areas
	3830-37			Bayly		Aklavik hunters, trappers and fishermen describe traditional areas
	3916-17			Lane	COPE/ITC	Clarification of place names mentioned in evidence of Mrs. Aleekuk
C-41	4000	Mar. 3	HOL	Lane		Filing of Holman natives' land use map as an exhibit
C-42	4023	Mar. 4	SACHS	Usher		Maps of Inuit land use and occupancy, sponsored by ITC and DIAND; report "Eskimo Land Use and Occupancy in the Western Arctic" by Usher
	4044			Lane		Question re method of picking up seismic wires by company
	4060			Lane		Request for pictures of entangled caribou from Essau
C-44	4230-33	Mar. 9	TUK	Usher		Introduction of land use maps, report "Eskimo Land Use and Occupancy in the Western Arctic" by Usher; introduction of Paulatuk maps, activity between Horton River and Croker River
	4236			Bayly		Filing of "Tuk Land Freeze Proposal" as an exhibit
154	23650-64	June 29	YK	Bayly		Position on admission of evidence from John Helliwell, NWT IB/MA
155	23668-72	June 30		Bayly		Cross-examination of Puxley, Watkins
C-64	7196-206	June 3	OTT	Amagoalik	COPE/ITC	Submission, Community Hearing, Ottawa
157	24036-48*	July 5	YK	Bayly		Cross-examination of Thompson
159	24453-96	July 7		Bayly		Cross-examination of Boorkman, Trusty, D. Weinstein, J. Weinstein
160	24658-71	July 8		Bayly		Cross-examination of Asch, Rushforth
	24765-66			Bayly		Distribution of evidence of first group of COPE witnesses
161	24827-916	July 12		Bayly		Cross-examination of Trusty, Williams, Hollands, Carlson
162	24930-44	July 13		Bayly		Cross-examination of Trusty, Williams, Hollands, Carlson
163	25256-79	July 14		Bayly		Cross-examination of Trusty, Hobart
	25291-302			Bayly		Admissability of Helliwell's evidence
	25322-438			Bayly		Cross-examination of Trusty, Hobart
165	25651-59	July 19		Lane		Cross-examination of Burrell, Ellwood, Jensen, MacLeod
166	25685	July 20		Bayly		Legality of asking possible employees for their criminal record
	25773-854			Brody Usher Beakhust Bayly	COPE/ITC COPE/ITC	Evidence in chief
	25819-54			Usher		Evidence in chief

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167	25855-26058	July 21	YK	Brody Beakhust Usher	COPE/ITC COPE/ITC COPE/ITC	Evidence in chief; cross-examination
168	26059-114	July 22		Brody Beakhust Usher		Evidence in chief, replies to questions
	26193-204			Bayly	COPE/ITC	Cross-examination of Brody
169	26326-40	July 23		Bayly		Cross-examination of Stanley, Ruttan
170	26470-92	Aug. 16		Bayly		Cross-examination of Burrell, MacLeod, Jensen
171	26515	Aug. 17		Bayly		Filing exhibits as result of undertaking
	26566-75			Bayly		Cross-examination of Burrell, Jensen, Ellwood, Deyell, MacLeod
	26673-96			Bayly		Cross-examination of M. Dixon
172	26697-742	Aug. 18		Bayly		Cross-examination of Dixon
	26821-65			Dittrich Kyllo	COPE/ITC COPE/ITC	Evidence in chief
174	27071-96	Aug. 20		Bayly		Cross-examination of Lainsbury, Dusel, Dalby
	27147-49			Bayly		Evidence to be called-panel on education; problems with evidence of Territorial Government staff
175	27293-3352	Aug. 23		Bayly		Cross-examination of Ashton, Hinchey, MacLeod
176	27357-428	Aug. 24		Button Robinson	COPE/ITC COPE/ITC	Evidence in chief
	27496-99			Bayly		Cross-examination of Wood
177	27541-44	Aug. 25		Bayly		Cross-examination of Galloway, Schauerte, Purdv
178	27612-38	Aug. 26		Bayly		Cross-examination of Merrett, Pritchard
179	27789-803	Aug 27		Bayly		Cross-examination of Lowing, Runge
	27826-28			Bayly		Distribution of evidence on health care, will give out housing and alternative development evidence later, dates for evidence
180	27916-8015	Sept 7		Bayly		"Resident's Perceptions of the Health Delivery Systems in Six Settlements in the Inuvik Region, Northwest Territories" by George Wenzel, filed; submission of Dr. Schaeffer, bibliography prepared by Dr. Hildes, evidence of Dr. Atcheson and Louise Clarke; cross-examination of Whiteford, Wessel, Hodson, Marriott, Dyck, St. Eloi.
	28036			Bayly		Request that Counsel distribute "Trade Unions in Canada and the Northern Residents" for possible use in cross-examination
181	28052-83	Sept 8		Bayly		Cross-examination of McCambly, LeClair
	28151-52			Bayly		Clarifying relevance of land claims to Inquiry
	28153-77			Bayly		Cross-examination of Mitchell, Reimer, Nousiainen.
	28210-24			Bayly		Cross-examination of Breckenridge, McRae
182	28305-60	Sept 9		Bayly		Cross-examination of Clayton, McCombs, Forth
	28362			Bayly		Evidence-in-chief from Louise Clarke
183	28400	Sept 10		Bayly		Give out presentation of Dr. Kehoe and other materials
	28402			Clarke	COPE/ITC	Evidence in chief
	28418-488			Bayly Atcheson Kehoe	COPE/ITC COPE/ITC	Distribution of evidence, explaining Dr. Abbotts absence; evidence in chief
	28540-43			Atcheson Kehoe		Re-examination
185	28544-732	Sept 15		Bayly		Evidence in chief from Hildes, Mayhall, Schaefer, Cass, Noble
186	28827-71	Sept 16		Bayly		Cross-examination of Basham, Braden
	28875-937			Bayly		Evidence in chief from Snowden, Currie
187	28975-90164	Sept 17		Bayly		Evidence in chief from Raddi, Bruce
188	29123-25	Sept 21		Noble	COPE/ITC	Cross-examination of Searle
	29152-252-A			Noble		Evidence in chief from Lincoln, Worl, Worl, Neakok, Buchholdt

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189	29312-33	Sept 22	YK	Bayly	COPE/ITC	Cross-examination of Hill
	29392-409			Bayly		Cross-examination of Smith, MacLeod, Robertson
	29453-61			Bayly		Cross-examination of Goulet, Harris
189A	29466-532			Bayly		Evidence in chief from R. Worl
191	29809-24	Sept 24		Bayly		Cross-examination of Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans
192	29944-61	Oct 4		Bayly		Cross-examination of Baring-Gould, Bennett
	30036-50			Bayly		Cross-examination of Krauss, Ritter
193	30206-34	Oct 5		Bayly		Cross-examination of EPB Panel
194	30371-83	Oct.6		Bayly		Cross-examination of Hemstock
	30424-34			Bayly		Cross-examination of Wylie, Lipsett
195	30463-71	Oct.7		Bayly		Cross-examination of Mirosh
195A	30681-709	Oct.7		Bayly		Cross-examination of Fowler, Daniels, Rymes, Dau, Johanson
196	30765-66	Oct.12		Bayly		Beakhust's evidence distributed and filed; evidence of Zemansky not received yet
	30886-907			Bayly		Cross-examination of Thompson, MacLeod, Skinnarland
197	31010-21	Oct.13		Bayly		Cross-examination of Bergasse
	31100-09			Bayly		Cross-examination of Rogol
	31117-49			Bayly		Cross-examination of Norton
198	31309-73	Oct.14		Bayly		Cross-examination of Forth, Gates, Carnew, Witty, Sterling
198A	31448-51	Oct.14		Bayly		Cross-examination of Christie, Nicholson, Schulz
199	31469-70	Oct.15		Bayly		How the change of schedule affects COPE's plans
	31494-96			Bayly		Filing exhibits "Land regulation in the Canadian North" by Usher and Beakhust; "Inuit land use and occupancy project", "Proposal for native legal worker program and community legal centre in the western Arctic"
	31497-588			Bayly		Evidence in chief from Beakhust, Zemansky
	31585-88			Bayly		Filing of exhibit, Joint state federal fish and wildlife advisory team narrative surveillance report by Charles Kaye; engineering problems, vertical support members' calculations
	31605-06			Bayly		Inquiry has possession of "Intercultural variation and mortality due to violence" by Kraus and Buffler; "FY-75 trans-Alaska pipeline impact expenditures by state and local governments" by Community Planning Division of Alaska Department of Community and Regional Affairs
202	31870-980	Nov.17		Bayly		Final submission
204	32300-02	Nov.19		Bayly		Objection to government of NWT appearing at final argument

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XXXII	4190-91	Apr.18	YK	Veale	CYI	Presentation of corridor concept motion-timing
XXXIV	4386-4517	Apr. 22		Veale		Cross examination Dau and Panel 4
XXXV	4543	Apr. 23		Marshall	CAGPL	Veale's question re: interior route pipe movement
	4653-54			Veale		Statement re: funding and participation
50	6667-99	June 6		Veale		Cross examination of Horte
C-14	1296-1301	July 11	O.C.	Veale		Questions to lead evidence
C-15	1363-1370	July 12		Veale		Questions to lead evidence
	1378-1470			Veale		Questions to lead evidence
C-16	1477-1657	July 13		Veale		Questions to lead evidence
52	6971-7020	Aug. 12	WH	Veale		Cross-examination of CAGPL panel on alternate routes
53	7175-7209	Aug. 13		Veale		Direct evidence
53-A	7340-42	Aug. 13		Veale		Cross examination of CARC routing panel
54	7431-33	Aug. 14		Veale		Geist cross-examined
	7553-55			Veale		Procedural; cross-examination and appearance of witnesses

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55	7646-47	Aug. 15	WH	Veale	CYI	Re-appearance of witnesses; routing hearings
76	11179-206	Oct. 21	YK	Veale		Cross-examination of Parker, Weeden
82	12155-12205 12290-91	Nov. 6		Veale Veale		Cross-examination of CAGPL Panel on physical environment Recommendation to remove 15 pages of Miller report and make it a public document
94	14325	Dec.2		Veale		Appearance of witnesses
95	14523-35	Dec.3		Veale		Requesting another community hearing in White - horse; alternative transportation corridors; procedural matters; Alaskan Highway; Miller Report
96	14536-703	Dec.4		Veale		Cross-examination of Banfield, Gunn, Hemstock, McCart, Jakimchuk
108	16421-60	Jan. 13		Veale		Cross-examination of EPB Environmental Panel
109	16726-36	Jan. 14		Veale		Motion presented re: Fairbanks corridor; community hearings
110	16845-67	Jan. 15		Veale		Cross-examination of Bergerud, Calef, Lent
124	18995-9005	Feb.13	IN	Veale		Cross-examination of Milne, Lewis
138	21002-35	Apr. 6	YK	Veale		Cross-examination of Simmons, Mossop, Stephen, Norton
139	21262-76	Apr. 7		Veale		Cross-examination of Nicol
151	23040-23212	May 5		Veale		Presentation of evidence; cross-examination of CYI witnesses
152	23331-50 23377-86	May 6		Notti Veale	CYI	Evidence - in - chief - impacts of oil, general development on natives Submission that hearings be held in Yukon communities, terms of order-in-council, letter re Northwest Pipeline and Westcoast Transmission's intention to transport gas via Fairbanks corridor
153	23407-526 23463-72	May 7		Sharp Veale	CYI	Social, economic impact on Ross River Direct examination of Sharp
178	27638-48	Aug 26		Veale		Cross-examination of Merrett, Pritchard
192	30012-35	Oct 4		Veale		Cross-examination of Krauss, Ritter
193	30235-48	Oct 5		Veale		Cross-examination of EPB Panel
194	30384-401	Oct.6		Veale		Cross-examination of Hemstock
195	30647-80	Oct.7		Veale		Cross-examination of Johanson, Fowler, Walker, Dau, Daniels
197	31026-77 31109-13	Oct.13		Veale Veale		Cross-examination of Norton Cross-examination of Rogol
198	31329-35 31373-84	Oct.14		Veale Veale		Discussion about deadline of Commission Counsel report Cross-examination of Gates, Forth, Witty, Sterling, Carnew
203	32121-203	Nov.18		Veale		Final argument

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XVIII	2120-21	Mar.14	YK	Scott	MVPI	Re: Templeton's questions for Panel 1
XXIII	2724-38	Mar.21		Templeton	EPB	Cross examination of Clark and Panel 2
XXXIV	4441-45 4456 4467-68	Apr. 22		Dau Goudge Veale	CAGPL MVPI CYI	Eric Gordeau Mr. Calef, environmental consultant Recommendations, supervision, coastal slope of Yukon
XXXVI	4676 4684	May 12		Genest Scott	CAGPL	Will appear in June Not a full-time participant like CARC
41	5311	May 20		Templeton		Cross examination of Operations and Maintenance Panel
43	5705-19	May 22		Templeton		Cross examination of Horte
44	5722-36	May 23		Templeton		Cross examination of Horte
46	5995-6148	June 2		Templeton		Templeton and Panel from EPB

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47	6149-6314	June 3	YK	Templeton	EPB	Templeton and Panel from EPB
48	6315-6451	June 4		Templeton		Templeton and Panel from EPB
49	6592-96	June 5		Horte	CAGPL	Body created by CAGPL
58	8143-80	Aug. 20		Templeton		Blair cross-examined by Templeton
	8194-96			Anthony	CARC	EPB assessment of the Arctic Gas project; independent inter-disciplinary environmental assessment
	8207-09			Marshall Berger	CAGPL	Need for Templeton to be cross-examined
52	7021-56	Aug. 12	WH	Templeton		Cross-examination of CAGPL panel re: alternate routes
67	9839-76	Sept.23	YK	Templeton		Cross-examination of Foothills Panel 10 (Construction)
69	10231-32	Sept.25		Templeton		Writing of terms and conditions of phase 1; procedural matters
71	10601-610	Oct. 14		Templeton		Cross-examination of D. Longlitz
72	10746-57	Oct.15		Templeton	EPB	Cross-examination of P. Lewis
	10777-88			Adam	EPB	Questioned by Berger re: Adams, opinion of Dr. Clark: Dr. Williams' testimonies
	10788-812			Adam		Adam cross-examined by Marshall
73	10815-20	Oct.16		Templeton		Appearance of witnesses; procedural
95	14383-409	Dec. 3		Environ. Panel	CAGPL	EPB matrix approach to environmental assessment; multi-disciplinary approaches
97	14734-821	Dec.5		Templeton	EPB	Cross-examination of CAGPL panel, impact on living environment
105	16059-60	Dec. 17		Steigenberger	CARC	Environmental code of general guidelines re crossing sites, gravel and water sources
107	16283-336	Jan. 12		Environ. Panel	EPB	Templeton, Adam, McTaggart-Cowan, Wilimovsky, Craik, Bliss, Gourdeau cross-examined by Anthony
	16365-406			Environ. Panel	EPB	Cross-examined by Bayly
108	16407-15	Jan. 13		Environ. Panel	EPB	Cross-examined by Bayly
	16415-21			Environ. Panel	EPB	Cross-examined by Bell
	16421-60			Environ. Panel	EPB	Cross-examined by Veale
	16460-95			Environ. Panel	EPB	Cross-examined by Hollingworth
	16496-532			Environ. Panel	EPB	Cross-examined by Marshall, Carter
	16532-82			Environ. Panel	EPB	Cross-examined by Scott
109	16583-726	Jan. 14		Environ. Panel	EPB	Cross-examination by Scott
135	20574	Mar. 25		Sprague	MVPI	Inquiry decisions should incorporate water quality suggestions of environmental assessment
136	20645	Mar. 26		Sprague		Recommendations re environmental inspectors similar to EPB's
193	30064-205	Sept 16		Templeton Doyle Hernandez	EPB EPB EPB	Evidence in chief
201	31833-55	Nov.16		Templeton		Final submission

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XV	1624 -	Mar.11	YK	Gibbs	Foothills	Filing of exhibits, financial and socio-economic material
XVI	1748-1809	Mar.12		Gibbs		Cross-examination of Dau and Panel 1
XVII	1879-86	Mar.13		Gibbs		Exhibit 74, discussion of "alternatives"
XXI	2487-2515	Mar.19		Hollingworth	Foothills	Cross-examination of Panel 2 - Design Panel
XXX	3715	Apr.15		Gibbs		re Future cross examination of Purcell and Panel 3
	3768-3871			Gibbs		Cross examination of Purcell & Panel 3
XXXI	3872-82	Apr.16		Gibbs		Cross examination of Purcell & Panel 3
XXXII	4196-4201	Apr.18		Hollingworth		Presentation of corridor concept motion-timing

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XXXIII	4373	Apr. 21	YK	Hollingworth	Foothills	Re-cross exam on points raised in welding film
XXXIV	4517-42	Apr. 22		Hollingworth		Cross-examination, Dau and Panel 4
XXXV	4543 4544-4600	Apr. 23		Marshall Hollingworth	CAGPL	Hollingworth's question re: interior route Cross Examination of O'Rourke, Dau and Williams
XXXVI	4665-67 4680 4687 4694-95	May 12		Lucas Genest Genest Hollingworth	CARC CAGPL	Request from CARC for funds Hollingworth expected later to present motion Submission later Oppose motion to adjourn formal hearings
XXXVII	4705	May 13		Hollingworth		Filing report on Minutes of Metallurgical Sub-committee, Calgary April, 1973
41	5285-5311	May 20		Hollingworth		Cross examination of Operations and Maintenance Panel
43	5593-5705 5682-83	May 22		Gibbs Gibbs		Cross examination of Horte Questions of supply and demand
44	5782-83	May 23		Bell	NWT IB/MA	Application for ROW
49	6455-6507	June 5		Gibbs		Cross examination of Horte
C-4	187-195 208-211	May 28	Hay River	Hollingworth Burrell	Foothills	Position of Foothills at hearings Statement by Blair; price of natural gas
C-5	459-470	May 29		Hushion	Foothills	Ownership of Foothills Gas
C-10	956-60	June 27	F.N.	Elwood	Foothills	Training program
C-11	985-89 1033-48	July 8	F. McP.	Elwood Elwood		Foothills representatives at hearings Danger of fires caused by pipelines; training programs; compressor stations
C-12	1106-08 1142-45	July 9		Elwood Elwood		Pipeline failures, repairs Nor-Tran training program
C-13	1199-1206	July 10		Elwood		Looping, caribou areas
56	7878-7944	Aug. 18	YK	Blair	Foothills	Submission by Blair
57	7947 7947-8004 8006-8112	Aug. 19		Gibbs Scott Blair Blair	Foothills MVPI	Council for Foothills; conclusion of evidence in-chief of Blair Cross-examined by Goldie Cross-examined by Goldie
58	8116-42 8143-80 8180-8204 8210-11 8214-37 8237-52 8253-96	Aug. 20		Blair Blair Blair Blair Gibbs Berger Blair Blair Blair		Cross-examined by Goldie Cross-examined by Templeton Cross-examined by Anthony Need for revision of rules of operation of the Inquiry since there are two applicants Cross-examined by Bell Cross-examined by Lane Cross-examined by Scott
59	8297-8305 8305 8315-22 8331-89 8390-8467 8467-72 8472-78 8478-80 8480-81	Aug. 21		Blair Mackie Gibbs Berger Gibbs Panel 3 Marshall Anthony Bell Lane Scott	Foothills	Re-examination by Gibbs Natural gas requirements in Canada N.E.B. responsibilities; mandate of the Inquiry; prepared evidence Introduction of Panel 3; Drew, Mirosh, Bouckhout, Gillespie Cross-examination of Panel 3 Cross-examination of Panel 3 Cross-examination of Panel 3 Cross-examination of Panel 3 Cross-examination of Panel 3
60	8485-8588 8588-91	Aug. 22		Scott Hollingworth Panel 3	Foothills Foothills	Cross-examination of Panel 3 Re-examination by Hollingworth
51	6827-72	Aug. 11	WH	Gibbs	Foothills	Cross-examination of CAGPL panel - Dau, O'Rourke, William, Clark, Hemstock, Banfield, Trusty

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52	6960-69	Aug. 12	WH	Gibbs	Foothills	Demand for uniform cost projections of prime and alternate routes from CAGPL	
53	7171-75 7222-24	Aug. 13		Hollingworth	Foothills	Evidence on alternate routes	
53A	7327-33	Aug. 13		Hollingworth		Cross-examination of Magistrate Sprecker	
C-18	1809-12 1826-27	Aug. 5	FGH	Ellwood	Foothills	Cross-examination of CARC routing panel Hare Indian River Crossing	
C-19	1849-59	Aug. 6		Ellwood		Borrow sources - vicinity of Fort Good Hope	
C-20	1909-10	Aug. 7		Blair	Foothills	Native land claims; pipeline impacts in Alberta	
C-21	2086-88A 2109-20 2153-57	Aug. 9	NW	Blair	Foothills	Foothills will consider route change to avoid Fort Good Hope Camps and operations near Norman Wells; gas to community	
	2180-90			Blair		Reserve estimates; project cost Population increase and shortage of services, housing - Norman Wells	
	2200-02			Burrell	Foothills	Opportunities for northerners re: employment contracts	
C-22	2242-48 2263 2268	Aug. 11	WH	Rutherford	Foothills	Access of workers; firearms Progress of spreads; techniques	
				Hushion	Foothills	Route selection; gas to communities	
C-23	2380-81	Aug. 14		Hushion		Route selection; gas to communities	
61	8614-50	Sept. 15	YK	Gibbs	Foothills	To investigate question of mosquito increase due to drainage Submission of exhibits; evidence in-chief of Foothills Panel 4	
61-A	8700-48			Mirosh Lazerte Hensch			
62	8796-8808 8878-79 8887-8902	Sept. 16		Panel 5 Gibbs	Foothills	Mirosh, Bauer, Walker, Glockner presenting evidence in-chief	
				Gibbs Marshall Berger	CAGPL	Procedural matter; submission of tentative reports and studies; alternative routes; Prudhoe Bay Supply line	
				Gibbs Panel 5		Gibbs in re-direct of Panel 5 - Mirosh, Bauer, Walker, Glockner	
				Panel 6 Gibbs		Evidence in-chief from Panel 6 Mirosh, Scrimmes	
63	8970-9071 9070-82 9114-62	Sept. 17		Panel 7 Gibbs		Evidence in-chief from Panel 7 - Mirosh, Lazerte, Beer	
				Gibbs		Documents related to the evidence of the Delta Producers	
				Panel 8		Metallurgical Panel - Direct evidence	
64	9271-9314 9382-91	Sept. 18		Panel 9	Foothills	Direct evidence of Geotechnical Panel 9	
				Hollingworth		Recommendations made by Claridge re rerouting to be submitted to Inquiry; decisions not yet made on those recommendations	
65	9582-86	Sept. 19		Hollingworth		Objection to demands for production of construction safeguards	
68	10147-58 10182-83 10206-08	Sept. 24		Hollingworth		Cross-examination of CAGPL (resumed) evidence re contractors (Dau-Williams)	
				Hollingworth		Computer program re cost estimates of CAGPL; Unies report on Swimming Point crossing	
				Hollingworth		Cross-examination of Templeton (EPB)	
69	10270-93 10368	Sept. 25		Hollingworth		Cross-examination of Dr. Williams	
70	10502-34	Sept. 26		Hollingworth		Depth of buried pipe at river crossings	
71	10600-601	Oct. 13		Hollingworth		Cross-examination of E.B. Owen	
72	10689-91	Oct. 14		Hollingworth		Presenting an exhibit on ice scour which fulfills an undertaking	
73	10857 10881 10969-70	Oct. 16		Gibbs		Procedural; appearance of witnesses	
				Gibbs		Cross-examination of Slusarchuk	
				Gibbs		Polling forces; decrease in temperature and soil permeability	
				Gibbs		Procedural	

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74	11020	Oct.17	YK	Genest	CAGPI	Procedural
75	11141	Oct. 20		Hollingworth	Foothills	Inquiring if CAGPL's cost comparison data on Fairbanks and Prime Route had been made an exhibit
76	11143	Oct. 21		Hollingworth		Appearance of witnesses for phase 2
	11176			Hollingworth	Foothills	Questioning of witnesses
	11249-51			Hollingworth		Cross-examination of Weedon, Parker
	11214-23			Hollingworth		Procedural; briefing and preparation of the witnesses
	11336-38			Hollingworth		Procedural
77	1141-42	Oct.22		Hollingworth		Scheduling of panels for phases 2 and 3
	11374-78			Hollingworth		Guidelines; alternative route proposals; concept of Mackenzie corridor
	11410-17			Hollingworth		Cross-examination of Rutter
78	11504-33	Oct.23		Hollingworth		Cross-examination of Roed
	11599-609			Berger Hollingworth		Foothills fulfillments re: alternate corridors and routes under expanded guidelines; project costs
79	11716	Nov. 3		Hollingworth		Request for Dabbs to repeat statements on erodibility rating
	11743-68			Hollingworth		Cross-examination of Minning, Dabbs re borrow operations and revegetation
80	11769-11847	Nov.4		Hollingworth		Cross-examination of CAGPL Environmental Panel (Phase 2) continued
	11889			Hollingworth		Reminder to Scott that Foothills has given notice of route changes
82	12205-07	Nov. 6		Hollingworth		Continued cross-examination of Dabbs re table of seed mixes
83	12520-22	Nov. 7		Hollingworth		Evidence to be given on Cross-Delta route in Inuvik
85	12704	Nov.12		Gibbs	Foothills	Compressor conversion to electricity to save gas
85-A	12740	Nov.12		Gibbs		Cross-examination schedule of Williams (CAGPL)
86	12809-90	Nov.13		Environmental Panel	Foothills	Evidence-in-chief, impact on physical environment
	12992-13048			Gibbs	Foothills	Cross-examination of Williams, northern spreads, production rates, artificial lighting; Fort Simpson spread, snow roads, production rates
	13052-56			Gibbs		Correcting Scott on numbers, Foothills construction start dates
87	13059-122	Nov.14		Environmental Panel	Foothills	Cross-examination by Bayly
	13123-98			Environmental Panel	Foothills	Cross-examination by Carter and Marshall
88	13200-344	Nov.17		Environmental Panel		Cross-examination by Ryder and Goudge; impact on physical environment
88-A	13345-53	Nov.17		Gibbs		Presentation of exhibits
89	13530-70	Nov.18		Gibbs		Cross-examination of CAGPL panel, impact on living environment
90	13731-66	Nov.19		Gibbs		Cross-examination of Hemstock, McCart (CAGPL), environmental monitoring, impact on fish
91	13845-92	Nov.20		Gibbs		Cross-examination of Dau (CAGPL) re: construction costs
	13898			Gibbs		Cross-examination of Dau re: sufficient gas for for 48 inch line
93	14101-24	Dec.1		Hollingworth		Cross-examination of Banfield, Gunn, Hemstock, McCart, Jakimchuk
94	14202-03	Dec.2		Hollingworth		Foothills alignments are south of Parson's Lake
97	14717-20	Dec.5		Hollingworth		FPC report on Fairbanks route
	14759-61			Hollingworth		Terms and conditions, recommendations from expert witnesses not binding on applicant
99	15021	Dec.9		Hollingworth		List of documents forthcoming
	15057			Hollingworth		List of documents arrived
	15105-32			Environmental Panel	Foothills	Evidence-in-chief, impact on living environment

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99	15133-35	Dec.9	YK	Whitney Bouckhout	Foothills Foothills	Impedence of moose movements, Mackenzie River Islands
	15135-85			Environmental Panel	Foothills	Cross-examination by Bayly re impact on living environment
100	15186-270	Dec.10		Environmental Panel		Cross-examination by Bayly re impact on living environment
	15271-83			Bouckhout Whitney		Cross-examination by Marshall re impact on living environment
	15283-382	Dec.10		Environmental Panel		Cross-examination by Scott re impact on living environment
101	15390-402	Dec. 11		Environmental Panel		Cross-examination by Scott re impact on living environment
	15333-41			Lutes	Foothills	Cross-examination of Zoltai on terrain problems
102	15543-47	Dec. 12		Lutes		Cross-examination of Zoltai, Peterson, re using abandoned CNT line; monitoring at proposed Willow Lake IBP site
	15660-65			Lutes		Cross-examination of Novakowski re game management, community lateral impact, IBP sites
	15707			Lutes		Cross-examination of Novakowski re borrow pits in proposed IBP sites
105	15976-96	Dec. 17		Hollingworth		Evidence-in-chief from Stein, Walker, Steigenberger, Millen
	16125-26			Hollingworth	Foothills	Cross-examination of Stein
108	16460-95	Jan. 13		Hollingworth		Cross-examination of EPB Environmental Panel
110	16739	Jan. 15		Hollingworth		Construction scheduling of Arctic Gas, response at NEB hearings, Jan. 13, 1976
	16867-80			Hollingworth		Cross-examination of Calef, Bergerud, Lent
C-24	2417-34	Aug. 23	TL	Hushion	Foothills	Representing Foothills at Trout Lake community hearing
	2438-41		NB	Hushion		Representing Foothills at the Nahanni Butte community hearing
	2450-51			Hushion		Training programs; education requirements and upgrading; employment opportunities
C-25	2476-78	Sept. 8	FS	Ellwood	Foothills	Route definition, construction schedule, job creation, gas supply re: Fort Simpson
	2491-94			Rutherford	Foothills	Argument against 4 year scheduling concept
	2513-73			Rutherford Ellwood		Pipeline route, potential gas reserves; camp site re: Fort Simpson, medical facilities; camp site abandonment; Foothills ownership financing; construction phase, controls technician training programs; peak construction labour force, hiring policy; Fort Simpson as a trans-shipment point; gas supply to Northern Communities; gas pipeline abandonment, failure; measures to control workmen entering Fort Simpson
C-26	2617-19	Sept. 9		Ellwood		Summary of pipeline proposal
C-27	2722-26	Sept. 10		Ellwood		Comments on union, hiring policies re: Northerners, training programs
	2746-70			Rutherford		Company shares re: sale to native organizations; cost of pipeline; land claims re: settlement
C-30	2894-97	Oct. 6	PP	Mirosh	Foothills	Proposed route, company organization, community feeder lateral re: construction schedule, camp site location
	2906-74			Mirosh Ellwood	Foothills	Training programs facilities - Nortran, Hire North; proposed use of Mackenzie Highway; per cent Canadian content of project; construction peak manpower needs; turnover rate in training program; permanent operating jobs; measures to reduce turnover rate; potential for primary industry after construction; pipeline looping - methods, costs; proposed route, feeder lines - construction schedule, campsite, household fuel cost savings; return rate for pipelines; gas reserves - duration of pipeline operation
C-31	3000-03	Oct. 7	FR	Mirosh		Feeder line to Fort Resolution, camp housing policy - Pine Point; native training programs - applications, qualifications
	3014			Mirosh		Gas pipeline operation period

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C-32	3084-85	Oct. 8	FR	Ellwood	Foothills	Foothills ownership re: Westcoast Transmission and Alberta Gas Trunk Line; El Paso's share in Westcoast
C-33	3108-10 3115-20 3166	Oct. 9	FS	Mirosh Mirosh	Foothills	Summary of proposal Initial construction, employment; subsequent construction re: more pipelines, gas plants; training programs; operating and maintenance personnel; local contractors Operation of Foothills in Northwest Territories; current state of pipeline
C-34	3244-48 3272-75 3292-94 3303-04 3376-77	Oct. 15	YK	Mirosh Mirosh Mirosh Mirosh	Foothills	Summary of project re: sponsors, formation of Foothills company, route, construction, gas control centre, employment, community use of gas Fuel oil costs; Westcoast Transmission's sale of gas to United States All-Canadian pipeline, smaller, cheaper; potential discovery in Mackenzie - Beaufort area; willingness to carry American gas, if asked Policy re: community use of gas, industrial, commercial, residential Northwest Territories' proposal to tax pipeline company
C-35	3388 3390-93 3396-98 3412-13 3422-23 3432-33	Oct. 22	LI	Littledale Littledale Littledale Littledale	Foothills	Personal resumé Differences between CAGPL, Foothills re: pipe size, main operation centre, manpower requirements Communities to be served by feeder laterals Measures to control outside workers from entering communities Quantity of money spent in NWT to date by Foothills Foothills policy re: hire, training of women
C-36	3501-04 3551-52	Jan. 28	In.	Burrell	Foothills	Pipeline route, gas delivery, Inuvik district office, campsite location; Nortran, Hire North-trained labour pool; environmental inspection team, land claims policy, pipeline design
	3571-73 3580-81 3605 3615	Jan. 29		Ellwood Burrell Burrell	Foothills	Proposed compressor station, gravel removal sites
C-37	3625-26 3640-43 3650-51 3660-70 3676-77 3680-84	Feb.10		Burrell Burrell Burrell Burrell Ellwood Mirosh Mirosh Ellwood	Foothills	Proposed pipeline routes community gas delivery, construction schedule, employment opportunities from Nortran program; northern business opportunities Funds to NWT from property tax on pipeline facilities, royalty on gas Guarantee of training employment for northerners Recruitment for Nortran programs Project cost, employment policy Foothills' position on native land claims settlement and pipeline construction Resource ownership and royalty payments Employment for natives lacking Grade 10 education, other pipeline positions; housing for employees; re: a union pipeline; gas pipeline failure - compensation to people affected Pipeline burial in river beds to avoid ice scouring Compensation for pipeline damages; location of Nortran and construction training sites; housing - rental rates and subsidization for Foothills employees
C-38	3625-26 3640-43 3650-51 3660-70	Feb.12		Burrell Burrell Burrell Burrell	Foothills	Project cost, employment policy Foothills' position on native land claims settlement and pipeline construction Resource ownership and royalty payments Employment for natives lacking Grade 10 education, other pipeline positions; housing for employees; re: a union pipeline; gas pipeline failure - compensation to people affected
	3676-77 3680-84	Feb.15		Mirosh Mirosh Ellwood	Foothills	Pipeline burial in river beds to avoid ice scouring Compensation for pipeline damages; location of Nortran and construction training sites; housing - rental rates and subsidization for Foothills employees
114	17302-07 17359-60 17386	Jan.22		Hollingworth Hollingworth Hollingworth	Foothills	Cross-examination of Mainland re Taglu gas plant; sewage; river transport of materials; construction scheduling Requirements for piles, wooden, steel; compressor station exhaust heat use Wooden pilings sources
115	17444-49 17481	Jan.23		Hollingworth Berger	Foothills	Cross-examination of Faulkner, Serra (GPC-D-S) re Niglintgak gas field development Blair's estimates of gas reserves in Delta area

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115	17551-55	Jan.23	IN	Hollingworth	Foothills	Cross-examination of Stamberg (GPC-D-G) re Parsons Lake gas field development	
	17600-01			Hollingworth		Objections made about cross-examination, evidence in chief	
116	17673-81	Jan.24		Hollingworth		Cross-examination of Appleton, Rempel, Webb, Wopnford re siltation controls; grizzlies' reaction to aircraft and people; Environmental Training Programs for Construction and Operation Personnel; monitoring of field activities	
	17734-35			Ellwood	Foothills	Drilling activity after pipeline completed	
	17739			Ellwood		Nortran sponsoring company	
122	18552-64	Feb.11		Hollingworth		Cross-examination of Stein	
123	18753-55	Feb.12		Hollingworth		Cross-examination Yates, Elkin	
	18766			Hollingworth		MVPI role in assessing government decision making process	
126	19203-26	Feb.16		Hollingworth		Cross-examination of Pettigrew, Logan, Snow	
	19299-312			Hollingworth		Procedural - inability to cross-examine Usher, Cournoyea panel due to late reception of evidence	
127	19371-74	Feb.17		Gibbs	Foothills	Cross-examination of Longlitz	
	19432-33			Gibbs		Cross-examination of Monaghan	
	19491-94			Gibbs		Cross-examination of Trudeau	
	19544-53			Gibbs		Cross-examination of Milne	
	19578			Gibbs		Objection to evidence re Canmar program	
129	19637			Gibbs		Objection to proposed evidence of Nicol re relevance to inquiry	
	19639-61			Gibbs		Cross-examination of Speller	
130	19738	Mar.16	YK	Marshall	CAGPL	Foothills plans to use Axe Point staging site too	
	19782-839			Gibbs		Cross-examination of Hollingshead, Williams, Minning, Purcell, Clark, Cooper	
131	19840-981	Mar.17		Gibbs		Cross-examination of CAGPL engineering panel re cross-Delta route	
134	20280-347	Mar. 24		Hollingworth	Foothills	Cross-examination of CAGPL environmental panel re cross-Delta route	
135	20403-24	Mar. 25		Hollingworth		Admissibility of COPE/ITC evidence on petroleum development, western Arctic	
	20515-32			Hollingworth		Cross-examination of CAGPL environmental panel re cross-Delta route	
136	20653-59	Mar. 26		Hollingworth		Cross-examination of Sprague (MVPI) re water quality criteria	
	20677-78			Hollingworth		Cross-examination of Sprague re: water quality criteria	
	20721-30			Hollingworth		Cross-examination of Peet (MVPI) re impact on domestic fisheries	
137	20771	Apr. 5		Hollingworth		Objection to proposed evidence of Nicol on Mizushima oil spill in Japan	
	20841-62			Hollingworth		Cross-examination of Davies	
138	20918	Apr. 6		Hollingworth		Filing of alignment sheets, route changes; filing of transmittal letter to Digby Hunt from Gibbs	
	20984			Hollingworth		Request for copies of Norton's appendices and a chance to read them	
	20986-21002			Hollingworth		Cross-examination of Simmons, Mossop, Stephen, Norton	
139	21196-203	Apr. 7		Hollingworth		Cross-examination of Heacock	
140	21279-85	Apr. 8		Hollingworth		Cross-examination of Nicol	
	21446-75			Hollingworth		Cross-examination of Allison, Usher, Cournoyea	
142	21526-663	Apr. 13		Virtue Giroux Behn	Nortran Nortran Nortran	Evidence on Nortran training program	
144	21943-47	Apr. 15		Hollingworth		Cross examination of D. Sanders, witness for NWT IB/MA	
145	22153-60	Apr. 26		Hollingworth		Cross examination of NWT IB/MA witnesses	
146	22224-28	Apr. 27		Hollingworth		Undertakings fulfilled or to be fulfilled in the future	

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148	22540-67	Apr. 29	YK	Hollingworth	Foothills	Cross-examination of Nahanni, NWT IB/MA
150	22877-86	May 4		Hollingworth		Cross-examination of Hills, NWT IB/MA
	22900-01			Hollingworth		Cross-examination of Hills, NWT IB/MA
	22907-24			Hollingworth		Cross-examination of Simpson, NWT IB/MA
	22980-23011			Hollingworth		Cross-examination of Bean, Cheezie, Kurszewski, NWT IB/MA
151	23181-88	May 5		Hollingworth		Cross-examination of Smith, Lueck, CYI
	23210-11			Hollingworth		Cross examination of Smith, Lueck, CYI
152	23215-52	May 6		Hollingworth		Cross-examination of Cruikshank, McClellan
	23364-71			Hollingworth		Cross-examination of Nottl
	23386-94			Hollingworth		Proposal of Northwest Pipeline and Westcoast Transmission to transport gas from Prudhoe Bay via Fairbanks corridor, Inquiry's order - in - council, support for Veale's motion that Inquiry visit Yukon communities
153	23509-11	May 7		Hollingworth		Cross-examination of Sharp
C-47	4558-63	Mar. 13	ARR	Beer	Foothills	Smell of gas leak, danger of forest fire; possibility of oil pipeline, effects on environment; Foothills and CAGPL routes, gravel sources, Travaillant Lake
	4622-24			Beer		Response to suggestion by W. Simon that route be moved further east of Travaillant Lake
	4637-39			Beer		Natural gas lighter than air, why it rises
C-48	4686-89	Apr. 30	FS	Burrell	Foothills	Summary of project, impact on Fort Smith, chances for involvement
C-50	4908-10	May 11	VAN	Litterdale	Foothills	Gas reserves, Mackenzie Delta
C-53	5566-72	May 14	CAL	Blair	Foothills	Possible completion dates for the pipeline; alternative corridors
154	23632-40	June 29	YK	Hollingworth		Opposition to presentation of evidence by John Helliwell, NWT IB/MA
155	23673-74	June 30		Hollingworth		Cross-examination of Puxley, Watkins
	23712			Hollingworth		Cross-examination of Puxley, Watkins
	23744-58			Hollingworth		Opposition to admission of evidence from Helliwell, NWT IB/MA
	23794-816			Hollingworth		Cross-examination of Forrest
155-A	23863-89			Hollingworth		Cross-examination of Jelliss
C-64	7275	June 3	OTT	Hollingworth		Changing construction scheduling to summer for northern-most 50 miles
	7356-60			Rutherford	Foothills	Gas reserves, environmental impact
C-67	7742-44	June 8	HAL	Ellwood	Foothills	Response to Rohmer's brief advocating Y-line
	7807			Hollingworth		Clarification of meeting between counsel and Brody; Brody will be sent copy of Exhibit 507, Brody's report filed by Webb
159	24373-75	July 7	YK	Lutes	Foothills	Amendments to application have been filed; decision to build gravel pad, north fifty miles
162	24944-46	July 13		Hollingworth		Cross-examination of Trusty, Williams, Hollands, Carlson
163	25304-05	July 14		Hollingworth		Admissability of Helliwell's evidence
165	25500-93	July 19		Hollingworth		Evidence in chief from Burrell, Jensen, Ellwood, MacLeod
166	25678-79			Hollingworth		Request from Reesor filled re housing document, "Housing Program Proposals for Home Operations and Home Acquisition Assistance" by Strong, Lamb and Nelson Limited; distribution of "Distribution Study, Gas in Northern Communities" by Great Northern Gas and "Forecast Costs of No. 2 Light Fuel Oil in the Northwest Territorial Communities to be Served by Foothills Pipe Lines Ltd."

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166	25678-772	July 20	YK	Hollingworth Burrell Ellwood Jenson McLeod	Foothills Foothills Foothills Foothills Foothills	Cross-examination
167	25968-6008	July 21		Hollingworth		Cross-examination of Beakhuist, Brody, Usher
169	26340-56	July 23		Hollingworth		Cross-examination of Ruttan, T'Seleie
C-68	7857-58	July 16	FP	Ellwood	Foothills	Staging area to be located at Axe Point; Fort Simpson, Hay River, alternate logistics centres
	7873-83			Ellwood		Lateral lines, gas to communities; pricing scheme
	7904-16			Ellwood		Compressor stations; use of barges
C-71	7999-8001	Aug 10	RE	Burrell		Pipeline proposal; gas to communities; housing of construction workers; opportunities for northerners; land claims.
	8002-04			Burrell		Description of Foothills' proposed pipeline route, lateral distribution system; pipe burial
	8008			Burrell		Remote chances of pipeline break; safety features; difference between break in oil and gas pipeline
C-75	8340-44	Aug 21	CL	Blair	Foothills	Gas exploration; compensation for hunting and trapping, possibility of no bad effect due to pipeline
C-76	8353-55	Aug 25	DET	Burrell		Deny storing pipe in delta, insulation of pipe, route
	8369-70			Burrell		Avoidance of river crossings; insulation of pipe
170	26368-456	Aug. 16	YK	Hollingworth		Burrell, Jensen, Ellwood, MacLeod, Deyell, Evidence in chief
171	26515	Aug. 17		Hollingworth		Filing exhibits
172	26746-50			Hollingworth		Cross-examination of Dixon
	26877-86			Hollingworth		Cross-examination of Kylo
	26925-55			Hollingworth		Cross-examination of Dittrich
174	27070-71	Aug 20		Hollingworth		Cross-examination of Lainsbury, Dusel, Dalby
	27137-46			Hollingworth		Evidence-in-chief from Blair
	27050-51			Hollingworth		Filing of exhibits #704,705,706,707
	27168-70			Hollingworth		Objection to Steeves' questioning of Blair re involvement of Canada's frontier gas supplies in foreign regulatory proceedings
177	27493-90	Aug 25		Hollingworth		Cross-examination of Wood
178	27574	Aug 26		Hollingworth		Filed exhibit on warm water testing
180	27870	Sept 7		Hollingworth		Letter dated December 1975 from Raddi, President of COPE to Honourable Edward Lawson, President of the Teamsters
181	28110-11	Sept 8		Hollingworth		Advising Inquiry that further questions of Mr Kosten must be made through correspondence; filing of exhibits
	28148-49			Hollingworth		Not prepared to cross-examine, reserve right to call back witnesses
	28203-07			Hollingworth		Cross-examination of Breckenridge, McRae
187	29064-69	Sept 17		Hollingworth		Cross-examination of Raddi, Bruce
193	30162-76	Oct 5		Gibbs	Foothills	Discussion - argument phase
	30181-83			Hollingworth		Submission of Beaufort Delta Project group
194	30285-325	Oct. 6		Hollingworth		Cross-examination of EPB panel
	30402-09			Hollingworth		Cross-examination of Hemstock
	30435-39			Hollingworth		Cross-examination of Wylie
195	30448-62	Oct. 7		Hollingworth		Evidence in chief of Byers, Mirosh
195A	30709-60	Oct. 7		Hollingworth		Cross-examination of Walker, Fowler, Daniels, Dau, Rymes, Johanson
196	30908-12	Oct. 12		MacLachlan	Foothills	Cross-examination of Thompson, MacLeod, Skinnarland
197	31150-53	Oct. 13		Hollingworth		Cross-examination of Norton
198	31261-62	Oct. 14		Hollingworth		Inquiry argument should be delayed because of Commission Counsel Report delay

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198A	31451-53	Oct.14	YK	Hollingworth	Foothills	Cross-examination of Christie, Schulz, Nicholson
199	31470-75	Oct.15		Hollingworth		Commission Counsel Report delay, availability
	31478-79			Hollingworth		Needs time to review Commission Counsel recommendations
	31486-87			Hollingworth		Response to request for items to be purchased in North by Foothills, medical and first aid facilities at construction camps
201	31801-32	Nov.16		Gibbs		Final submission

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XVIII	2046-2120	Mar.14	YK	Scott	MVPI	Cross examination of Dau and Panel 1
XX	2373-82	Mar.18		Scott		Clarity of evidence in chief is onus of CAGPL
	2407-10			Scott		Re: sitting hours of hearings
	2758-61			Scott		Re questions asked in volume XIX, p.2127-28
XXIV	2763-64	Apr.7		Scott		Introduces Lane; Church's slides as Exhibit 86
XXIV-A	2878-2941			Scott		Cross examination of Clark & Panel 2
	2944					Risk studies
XXV	2964-3083	Apr.8		Scott		Cross examination of Clark & Panel 2
XXVI	3084-96	Apr.9		Scott		Letters received S.M. Hodgson, Nurse Parker - Aklavik
	3091-3277			Scott		Cross examination of Clark & Panel 2
XXVII	3280-3301	Apr.10		Scott		Cross examination of Clark & Panel 2
	3305-3435					
XXVIII	3436-3560	Apr.11		Scott		Cross examination of Clark & Panel 2
XXIX	3561-62	Apr.14		Scott		Proposed schedule
	3567-68					Slides - Prototype Northern River dry bottom
	3568-3635					Cross examination of Clark & Panel 2
XXXI	3872			Scott		Scheduling corridor phase
XXXII	4075-4160	Apr.18		Scott		Cross examination: Purcell & Panel 3
	4209-19			Scott		Presentation of corridor concept motion-timing
XXXIV	4456	Apr. 22		Goudge	MVPI	Re Environmental Protection Board
XXXV	4644-48	Apr. 23		Goudge		Preparation of questions for panel
XXXVI	4681-85	May 12		Scott		Supports motion to adjourn formal hearings
	4688-89			Scott		Prepared for cross examination but should wait for ruling
XXXVII	4700-02	May 13		Scott		Adjournment proposed by Professor Lucas
XXXVIII	4822	May 14		Scott		Correction needed in transcript of May 13
	4966-5002			Goudge		Cross examination of Dau and Panel 4
XXXIX	5004-58	May 15		Goudge		Cross examination of Dau, O'Rourke, Williams
	5067-5178			Scott		Cross examination of Dau, O'Rourke, Williams
41	5273	May 20		Scott		Report on physical environment of on-shore portion, Mackenzie Delta
	5365-68			Scott		Environmental constraints on American application
42	5422-5527	May 21		Scott		Cross examination of Operations and Maintenance Panel
43	5672-75	May 22		Scott		Questions re: Exhibit, "National Economic Effects of Applicant's Proposal"
44	5720-21	May 23		Scott		Diagram on the disposition of equipment, materials, pipe - in the event of looping (CAGPL undertaking)
	5750-57			Scott		Consortium; violations of specific legislation
	5818-19			Scott		Inquiry Appraisal Team; recommendations
	5837-38			Scott		Policy witness to discuss consultations with federal government
	5858-59			Scott		Meetings, route selection
	5871-78			Scott		Factors affecting route selection, location
45	5966-93	May 24		Scott		Cross examination of Horte
46	5995-6028	June 2		Goudge		Initial appearances of EPB witnesses
50	6699-6744	June 6		Scott		Cross examination of Horte

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C-I	36-39	Apr. 2	Aklavik	Jackson	MVPI	Territorial employees, evidence before the hearing
C-4	213-214	May 28	Hay River	Jackson		Tonnage, shipping, through Hay River
	297-300			Jackson		Questions to lead evidence
C-5	346	May 29		Berger		Ed Weick to consult with Rufus Graves
	395			Berger		Ed Weick to follow up recommendations of Mr. Tetrault
	427-430			Jackson		Applicant's training program
56	7804-75	Aug. 18	YK	Scott		Cross-examination of Horte
57	8048	Aug. 18		Scott Goldie	MVPI CAGPL	Direction to Mr. Goldie
58	8205-11	Aug. 20		Scott		Announcement of up-coming formal and community hearings
	8253-96			Scott		Cross-examination of Blair
59	8305-10	Aug. 21		Scott		NEB is to decide the Canadian gas supply and requirements; mandate of the Inquiry
	8316			Scott		Testimony by Professor Jamieson; overview evidence
	8322-27			Scott		Evidence given and relevance to the Inquiry; N.E.B. decisions, and mandate
	8329-31			Scott		Reports used by Foothills and sent by the Minister; reference to availability of DOE studies which may be of interest to the Inquiry
	8423			Scott Marshall	CAGPL	Material used by Foothills participants in making decisions should be presented to the Inquiry; also material used by CAGPL should be presented
	8480-81			Scott		Cross-examination of Foothills Panel 3
60	8455-8588	Aug. 22		Scott		Cross-examination of Foothills Panel 3
52	6965-66	Aug. 12		Goudge	MVPI	Defends CAGPL argument re providing uniform cost analyses of routes
53	7143-72	Aug. 13	WH	Goudge		Cross-examination of CAGPL routing panel
	7192-93			Goudge		To obtain G. Miller report on Ross River
	7209			Goudge		Magistrate Sprecker to return Phase 4
	7259			Goudge		Scheduling of Whitehorse hearings
53A	7342-48	Aug. 13		Goudge		Cross-examination of CARC routing panel
54	7401-03	Aug. 14		Goudge		Procedural; appearance of witnesses
	7434-38			Goudge		Cross-examination of Geist
	7551-55			Goudge		Procedural, cross-examination and appearance of witnesses
55	7589	Aug. 15		Goudge		Introduction to Thursday's hearings; procedural
	7646			Goudge		Procedural; recall of witnesses at a later date
61	8595-98	Sept. 15	YK	Scott		Community hearings to be held in Yellowknife in October; procedural matters; presentation of the United Steel workers brief
	8621-22			Scott		Clarification as to Foothills route location re: grave sites at Fort Alexander
	8623-24			Scott		Use of maps in route selection; IBP sites; location of Foothills, Yellowknife - Pine Point community supply lateral
	8693-99			Scott Panel 4		Cross-examination of Mirosh, Hensch, Lazerte
62	8800-8808	Sept. 16		Scott Berger		Procedural matters: submission of tentative reports; alternative reports; Prudhoe Bay supply line
	8829-78			Scott		Cross-examination of Mirosh, Bauer, Walker, Glockner - Foothills Panel 5
	8886-87			Scott Gibbs	Foothills	Feeder line crossing the Liard River; construction techniques
	8958-65			Scott		Cross-examination of Mirosh, Scrimas by Scott
63	8966-69	Sept. 17		Scott		Proceedings scheduling; witnesses appearances
	9061-9113			Scott		Cross examination of Foothills Panel 7 on compressor stations
	9075			Scott		Formal hearings on Delta phase in Inuvik and Yellowknife

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63	9082-9113 9199	Sept.17	YK	Scott Scott	MVPI	Cross-examination of Panel 7 resumed Clarification on pipe specifications for 42" line for ACTL and Foothills
64	9241-65 9385-92	Sept.18		Scott Scott		Cross-examination of Foothills Metallurgy Panel 8 Agrees that Foothills should produce possible route change
65	9494-9587	Sept.19		Scott		Cross-examination of Foothills Panel 9 (Geotechnical)
66	9733-37	Sept.22		Scott		Questions Genest re Arctic Gas schedule & startup date
67	9901-10025 1000-04	Sept.23		Scott Scott		Cross-examination of Foothills construction Panel 10 Scheduling of witnesses
68	10083-10128 10135-47 10179-82 10184-87 10221-29	Sept.24		Scott Goudge Goudge Goudge Goudge	MVPI	Cross-examination of Foothills Panel 11 (Operations & Maintenance) Cross-examination of CAGPL, Dau, Williams re contractors estimates of spread productivity Cross-examination resumed of Dau & Williams Order of cross-examination Cross-examination of Templeton EPB
69	10232-68 10270-93 10294-368 10370-72 10376-444 10445 10445-54 10456-99 10499-501	Sept.25		Williams Williams Williams Williams Owen Goudge Owen Owen Williams	MVPI MVPI MVPI	Dr. Williams' evidence in-chief Cross-examination by Hollingworth Cross-examination by Marshall Redirect by Savage E.B. Owen evidence in-chief Procedural; CARC evidence Cross-examined by Bell Cross-examined by Bayly Cross-examined by Marshall
70	10502-32 10532-34 10535-64 10565-93	Sept.26		Williams Williams Longlitz Lewis	MVPI MVPI	Cross-examined by Hollingworth Re-direct by Goudge Evidence in-chief Evidence in-chief
71	10598-601 10622-24 10641	Oct.14		Goudge Goudge Goudge		Filing of exhibits; procedural Pipeline guidelines re: posting of a performance bond; land use regulations; acreage requirements Return of witnesses in phase 5 re: regulatory matters
72	10689-91 10700 10736-41 10746-57 10754 10758-59 10759-6, 10768-76	Oct. 15		Goudge Goudge Longlitz Lewis Goudge Goudge Lewis Lewis		Presentation of exhibits; procedural Marking of an employment poster and a copy of land use regulations Re-examination of evidence Cross-examined by Templeton Use by Dr. Clark of culverts through frost bulbs on cross slopes Tendering of exhibits re startup and shutdown dates Lewis cross-examined by Bayly Lewis cross-examined by Marshall
73	10813-20 10845-46 10938-40 10969-70	Oct.16		Goudge Goudge Goudge Scott	MVPI	Appearance of witnesses; procedural Overviews to be numbered and sent to Dr. Williams, slides numbered Appearance of witnesses; procedural Appearance of witnesses; procedural
74	11013-24	Oct.17		Scott		Procedural; appearance and cross-examination of witnesses; alternative transportation corridors
75	11038 11071-72 11093-94 11038-41	Oct.20		Scott Scott Scott Scott		Dr. Weeden's position and opinions Weeden's worst case prediction; clarification of meaning Environmental evidence re: Phases 2 and 3 Scheduling of witnesses

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76	11142-43	Oct.21	YK	Scott	MVPI	Procedural, scheduling of witnesses
	11149-51			Scott		Producing a list of documents re: Weeden, Parker's information sources
	11168			Scott		Witnesses' opinions; State of Alaska policies re: route preference, El Paso
	11175-76			Scott		Questioning of witnesses
	11251-96			Scott		Cross-examination of Parker, Weeden
	11299-338			Scott		Cross-examination of O. Hughes
77	11339-43	Oct.22		Scott		Scheduling of panels for phases 2 and 3; holding of formal hearings in Inuvik in January and February
	11376-78			Scott		Guidelines for northern pipelines; concept of Mackenzie corridor; alternative routes
	11381-82			Scott		Routing of the east of the Franklins proposal
	11387-88			Scott		Research by Geological Survey of Canada, Dr. Hughes mapping, reports by Dr. Ramsey
	11417-42			Scott		Cross-examination of Rutter
	11445			Scott		Filing transcriptions of evidence; exhibits
78	11566-608	Oct.23		Goudge	MVPI	Cross-examination of Roed
79	11714-16	Nov. 3		Scott		CAGPL document on soil erodibility to be entered as exhibit
80	11834-39	Nov. 4		Scott		Request for locations under consideration for rerouting
	11852			Scott		Clarification of witness Hemstock's answers re environmental factors in route selection
	11860-61			Scott		Support for CARC's request that Hemstock outline method by which Fort Simpson route change evolved
	11864-65			Scott		Request for the studies that CAGPL said were underway when Fort Simpson route changed
	11886-89			Scott		CAGPL compliance with request that Inquiry be notified in advance re route changes under consideration
81	11973	Nov. 5		Scott		Order of Phase 2 cross-examination
	12101-03			Scott		Use by CAGPL of ground water as water source to be determined
82	12136	Nov. 6		Scott		Completed list of Environmental-Social Program submitted
	12156-62			Scott		Reservations re allowing CYI witnesses to read report by George W. Miller on Ross River "The Economic Acculturation of an Indian Band".
	12207-12330			Scott		Cross-examination of CAGPL Panel on impact on physical environment; Dabbs re revegetation
	12290-91			Scott		To consider Veale's suggestion re removal of 15 confidential pages from Miller report to make document public
83	12331-522	Nov.7		Scott		Cross-examination of CAGPL Panel, impact on physical environment; revegetation, borrow pits
	12384-89			Scott		Route alternatives across and west of Delta; CAGPL support material re: Cross-Delta route required; gravel in Delta area required; Thunder River requirements
85	12686-87	Nov.12		Scott		Request CAGPL supply list of chemicals, handling methods, contingency plans
	12708-37			Scott		Cross-examination, CAGPL panel impact on physical environment, river-crossings, Blackwater River, engineering and environmental information; water withdrawal, Firth River
85-A	12739-801	Nov.12		Scott		Cross-examination of CAGPL panel, impact on physical environment; water withdrawal, fish impact, Mackenzie Valley, North Slope; siltation, fish impact, limits; compressor station emissions
86	12802-08	Nov.13		Scott		Cross-examination of CAGPL physical environment impact panel, river crossings, fish impact; borrow sites
	13050-54			Scott		Cross-examination of Williams, work periods, Inuvik miles completed, Foothills, CAGPL
87	13164-66	Nov.14		Scott		Inquiry interested only in archaeological evidence north of 60
	13193-98			Scott		Requesting CAGPL's terrain sensitivity map; scheduling of panels

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88	13200-344	Nov.17	YK	Ryder Goudge	MVPI MVPI	Cross-examination of Foothills physical environment impact panel
90	13722-30	Nov.19		Goudge		Cross-examination of Dabbs, Hemstock re: impact on vegetation
91	13893-95	Nov.20		Goudge		Cross-examination of Dau re: costs of pipeline
92	14002	Nov.21		Ryder		Scheduling of hearings; hours of sitting
	14019-59			Ryder		Cross-examination of Banfield, Hemstock, McCart
93	14065-101	Dec.1		Ryder		Cross-examination of Hemstock
94	14197-98	Dec.2		Scott	MVPI	Seeking clarification as to blasting under the ice; Great Bear River
	14214			Scott		Delta phase; draft reports - availability
	14321-25			Scott		Appearance of witnesses; CARC evidence on caribou
	14334-35			Scott		Consideration under the Guidelines; availability of reports re: Schultz - Dempster Highway
95	14390-95	Dec.3		Scott		Route selection; environmental assessment
	14435-51			Scott		Access roads, North Slope; assumptions re: environmental assessment
	14462-63			Scott		Corridor concept; impact of future development
	14525-35			Scott		Community hearing in Whitehorse; procedural matters; mandate of the Inquiry re: consideration of alternative transportation corridors
96	14661	Dec.4		Scott		Recommendations to the Inquiry - substance
	14705-09			Scott		Procedural
97	14715-20	Dec.5		Scott		Renewable Resources alleged animal harassment; flying personnel to spreads via helicopter; FPC report re Fairbanks route
	14744-71			Scott		Terms and conditons, recommendations from witnesses, regulation of pipeline, "enforcement phase"
	14789-94			Scott		Banfield's attack of EPB methods
	14822-61			Scott		Cross-examination of Jakimchuk, Gunn, impact on caribou, birds
98	14863-15006	Dec.8		Scott		Cross-examination of CAGPL environmental panel re impact on living environment
99	15000-22	Dec.9		Scott		Answering request for Dr. Fyles' report of staff, Dr. Geist's report on disturbance; counsel's memo-randa for cross-examination purposes
	15022-104			Scott		Cross-examination of CAGPL panel re impact on living environment
100	15213-14	Dec.10		Scott		CWS studies on Bluenose Caribou herd
	15283-382			Scott		Cross-examination of Foothills panel re impact on living environment
101	15390-402	Dec. 11		Scott		Cross-examination of Kondla, Hayden, Finney, Whitney Bouckhout (Foothills)
	15403-05			Scott		Zoltai, although employed by Federal Government, is appearing for CARC on personal basis; Peterson not dealing with Environmental-Social Program
	15457-58			Scott		Producing reports from Geist, DeBock and Surrendi
	15479-80			Scott		McCart's evidence re spring near Firth River
	15492-501			Scott		Reports on fenland areas along route
	15511-33			Scott		Cross-examination of Peterson, Zoltai (CARC) on pipeline guideline drafting; terrain problems; DOE Task Force on Pipeline Assessment
102	15588-611	Dec. 12		Ryder		Cross-examination of Peterson (CARC) on sensstivie areas to be avoided, proposed IBP sites
	15696-705			Ryder		Cross-examination of Novakowski re wildlife protection leg-islation; ROW mammal population, trapping; muskrat impor-tance, trapping
103	15712-13	Dec. 15		Ryder		Tabling of Surrendi, De Bock and Dennington Report
104	15963	Dec. 16		Ryder		List of substances utilized in pipeline testing
105	15976	Dec. 17		Goudge		Reports requested by Banfield, located by Fyles
	16056			Ryder		Cohesive material by McCart and panel re critical, sensitive environmental areas
	16074-125			Ryder		Cross-examination of Stein, Walker, Steigenberger. Millen

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107	16341-45	Jan. 12	YK	Scott	MVPI	Procedural; Dr. Thompson joining the EPB panel; setting of precedents
108	16541	Jan. 13		Scott		Calling of the Community Hearings Committee re: hearings along the Fairbanks corridor
	16532-82			Scott		Cross-examination of EPB Panel
109	16583-726	Jan. 14		Scott		Cross-examination of EPB Environmental Panel
	16735-36			Scott		Consideration of Veale's proposal in March after the hearings in Inuvik
110	16737-39	Jan. 15		Scott		Reports from the Beaufort Sea Project, availability; formal hearings in Inuvik
111	16931-60	Jan. 16		Ryder	MVPI	Cross-examination of Calef, Bergerud, Lent re impact on caribou, reindeer
	16964-17001			Davies	MVPI	In-chief evidence re environmental impact assessment, corridor and route selection
112	17007-09	Jan.20	In	Scott		Delta gas producers will present evidence on behalf of MVPI
	17035			Scott		Request for "Response to information request for socio-economic supplementary concerns" by Delta gas producers be made exhibit; maps of seismic lines to be exhibits
	17090			Scott		Will Foothills need timber for pilings
	17116-24			Scott		Cross-examination of Bliss re impact of gas field activities on Delta
	17267-76			Scott		Cross-examination of Hobart re socio-economic impact of development in Delta area
114	17338			Scott		Obtaining release of APOA survey of Delta borrow material resources
	17388-417			Scott		Cross examination of Mainland and Stewart re Taglu gas field, plant
115	17507-29	Jan.23		Scott		Cross-examination of Faulkner, Serra re Niglintgak gas field development
	17593-94			Scott		Marshall's objection to relevance of COPE/ITC witness Shaw's evidence, "Handling of hazardous materials in oil and gas field development in Alberta"
	17601			Scott		Ruling to be made on Marshall's objection to relevance of COPE/ITC witness Shaw's evidence
116	17631-39	Jan.24		Scott		Cross-examination of Scott, Stamberg, Guyn, Good re joint air strip between Gulf and CAGSL, necessity of permanent road, location; snow roads re construction, annual use, effects on terrain
117	17766-815	Jan.26		Goudge	MVPI	Cross-examination of Appleton, Rempel, Webb, Wopnford re multi-year use of snowroads; reindeer overwintering; over-exploitation of fishing; archaeological sites; aircraft traffic; gas plant disturbance to snow geese; location of processing plant; monitoring and surveillance; environmental training; contingency plans for spillage; gravel sources, requirements
	17774			Goudge		Arctic Gas's Environmental Statement, cross-delta alternative
	17847			Goudge		Confusing terms in Mainland's letter to Hancock
118	17946-90	Jan.27		Goudge		Cross-examination of Sider, Tod, Wopnford re labour force, native; expeditors; unions; Inuvik airstrip
	18066-98			Goudge		Cross-examination of Czaja, Horsfield, Motyka re permits for gas plants; hiring policy; community infrastructure; secondary industries; future gas fields; gas plants on artificial islands
119	18118-37	Jan.28		Goudge		Cross-examination of Shearer
	18180-200			Goudge		Cross-examination of Shaw
120	18260-308	Jan.29		Goudge		Cross-examination of Pimlott
	18309-10			Goudge		Document tendered as exhibits; "Energy Under the Oceans, A Technological Assessment of Outer Continental Shelf, Oil and Gas Operation"; "O.C.S. Oil and Gas - An Environmental Assessment"; "Arctic Well Control Contingency Plan - Edmonton, Alberta"
	18339			Goudge		Cross-examination of Martell
	18350-55	Feb.10		Goudge		Cross-examination of Martell

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121	18360	Feb.10	IN	Goudge	MVPI	Submission of reports from Beaufort Sea Environmental Program
	18456			Goudge		Procedural - Barry - evidence in chief
	18485-87			Goudge		White whale penetration of Reindeer channel re position of proposed river crossing
122	18629	Feb.11		Goudge		Procedural
	18646-727			Goudge		Cross-examination of Percy, Barry, Stein, Grainger, Sergeant, Stirling, Smith
123	18728-52	Feb.12		Goudge		Filing of exhibits; evidence-in-chief of Yates and Elkin
	18786			Goudge		Information available to participants re gathering line, gas plant work being done in DIAND
	18867			Goudge		Regional Planning Committee - ability to monitor, correct social programs
125	19026-80	Feb.14		Goudge		Cross-examination of Lewis, Shearer
126	19255-99	Feb.16		Goudge		Cross-examination of Snow, Pettigrew, Logan
127	19313	Feb.17		Goudge		Phase four evidence, Usher
	19374-86					Cross-examination of Longlitz
	19434-44			Goudge		Cross-examination Monaghan
128	19498-521	Feb.18		Goudge		Cross-examination of Trudeau
	19554-88			Goudge		Cross-examination of Milne
	19589-605			Goudge		Evidence-in-chief from Speller
129	19606-33			Goudge		Evidence-in-chief from Inglis
129	19633	Feb.19		Goudge		Availability of "Impressions on the Construction of the Pointed Mountain Gas Pipeline" by Land Dean and Brant; "Northern Yukon Fisheries Study - 1971 to 1974", Vol. 2, compiled by Steigenberger, Elsen, Bruce, Yole; "Effects of Changing the Duration of Pipeline Construction on Selected Variables" by M.P.S. Associates of Winnipeg
	19694			Goudge		Speller and Snow's report will be provided for information, when ready
132	20014-152	Mar. 18	YK	Goudge		Cross-examination of CAGPL engineering panel re cross-Delta construction
133	20115-18	Mar. 23		Scott	MVPI	Presenting exhibits; calling of COPE/ITC evidence on Mizushima oil spill; CAGPL oil spill contingency plan report availability
	20176-80			Scott		Selection of Barry route
134	20237	Mar. 24		Scott		Whale calving, movements, West Mackenzie Bay, Shallow Bay
	20245-49			Scott		Boat and air traffic, Shallow Bay crossing, impact on whales
	20348-98			Scott		Cross-examination of CAGPL environmental panel re cross-Delta route
135	20414-25	Mar. 25		Scott		Admissibility of COPE/ITC evidence on petroleum development, western Arctic
	20427			Scott		Cross-examination of CAGPL environmental panel on late reports possible
	20429-513			Scott		Cross-examination of CAGPL environmental panel on cross-Delta route
	20546-64			Scott		Cross-examination of Hemstock re cross-Delta route
	20571A-601			Sprague	MVPI	Evidence in chief, water quality criteria for protection of aquatic life
136	20623-26	Mar. 26		Scott		Examining possibilities of "DEW line route", North Slope
	20630-35			Sprague		Slide show of experiments of impact of oil refinery waste on aquatic life
	20635-53			Sprague		Cross-examination by Marshall re water quality criteria
	20653-59			Sprague		Cross-examination by Hollingworth re water quality criteria
	20660-77			Sprague		Cross-examination by Bayly re water quality criteria

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136	20677-78	Mar. 26	YK	Sprague	MVPI	Cross-examination by Hollingworth re water quality criteria
	20678-83			Sprague		Re-examination by Scott re water quality criteria
	20691-718			Peet	MVPI	Evidence-in-chief, impact of pipeline on domestic fisheries
	20718-21			Peet		Cross-examination by Carter re impact on fisheries
	20721-30			Peet		Cross-examination by Hollingworth re impact on fisheries
	20730-66			Peet		Cross-examination by Bayly re impact on fisheries
137	20770	Apr. 5		Goudge	MVPI	Marshall's motion re: proposed evidence of Nicol on Mizushima oil spill in Japan
	20787-88			Goudge		Support for proposed evidence of Nicol on Mizushima oil spill in Japan
	20793-815			Goudge		Evidence-in-chief from Davies
	20840-41			Goudge		Filing of exhibit "North of 60, Mackenzie Valley Pipeline Inquiry, Summary of Proceedings, Vol. 1, Construction and Engineering", copies available to participants
	20871-72			Goudge		Cross-examination of Davies
	20872-914			Goudge		Evidence-in-chief from Mossop, Simmons, Stephen, Norton
138	20918	Apr. 6		Goudge		Filing of "A History of Attempts to Commercially Fish the Mackenzie River Delta, Northwest Territories" by Barlishen and Webber
	20 919-83			Goudge		Evidence in chief from Mossop, Simmons, Stephen, Norton
	20984			Goudge		Copies of Norton's appendices will be provided
	20996			Goudge		Filing of government reports and studies, Feb. 2, 1976; copies of Norton's "Pipeline Surveillance from the Inside" distributed to participants
139	21173-76	Apr. 7		Goudge		Re-examination of Mossop, Simmons
	21179-88			Goudge		Evidence-in-chief of Heacock
140	21286-98	Apr. 8		Goudge		Cross-examination of Nicol
141	21480-513	Apr. 9		Goudge		Cross-examination of Usher, Cournoyea, Allison
142	21520	Apr. 13		Scott	MVPI	Opening of Phase 4
	21608			Scott		Employment opportunities; unions
	21637-62			Scott		Cross-examination of Panel 1, Phase 4, Nortran Program
143	21664-736	Apr. 14		Scott		Cross-examination of Panel 1, Phase 4
	21781-87			Scott		Cross-examination of G. Manuel, President of National Indian Brotherhood
	21803-07			Scott		Cross-examination of H. Cardinal, President of Indian Association of Alberta
143-A	21878-86	Apr. 14		Scott		Cross-examination of Russell, witness for NWT IB/MA
144	21948-63	Apr. 15		Scott		Cross-examination of Sanders, witness for NWT IB/MA
	22069-72			Scott		Response to objections raised by Sigler of NWT CC
	22076-80			Scott		Cross-examination of Barnaby, witness for NWT IB/MA
145	22081	Apr. 26		Scott		Mental Health Association of NWT to become participant in the Inquiry
	22173-92			Scott		Cross-examination of panel of NWT IB/MA witnesses representing Oxfam, churches
	22202-08			Scott		Cross-examination of witnesses
	22210-13			Scott		Cross-examination of witnesses
146	22223-24			Scott		Schedule of formal hearings for summer of 1976
147	22395-470	Apr. 28		Scott		Cross-examination of NWT IB/MA
148	22580-614	Apr. 29		Scott		Cross-examination of Nahanni, NWT IB/MA
	22673			Scott		Brief cross-examination of Kodakin, NWT IB/MA
149	22787-94	May 3		Goudge		Cross-examination of witnesses Ritter, Sittichinli
150	22901-04	May 4		Goudge		Cross-examination of Hills, NWT IB/MA
	22928-38			Goudge		Cross-examination of Simpson, NWT IB/MA
	23024-33			Goudge		Cross-examination of Bean, Cheezie, Kurszewski of NWT IB/MA
	23035-37			Goudge		Cross-examination of Bean, Cheezie, Kurszewski

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151	23065-73	May 5	YK	Goudge	MVPI	Cross-examination of Irving, CYI				
	23077-81			Goudge		Cross-examination of Irving, CYI				
	23204			Goudge		Cross-examination of Smith, CYI				
152	23296-327	May 6		Goudge		Filing of exhibits; cross-examination of Cruikshank, McClellan				
	23400-02			Goudge		Does not support Veale's motion to hold community hearings in Yukon				
153	23512-22	May 7		Roland	MVPI	Cross-examination of Sharp				
C-49	4768-71	May 10	VAN	Scott	MVPI	Explaining enquiry procedure				
C-51	5203-05	May 12		Waddell	MVPI	Procedural matters				
C-52	5220-23	May 13	CAL	Ryder	MVPI	Procedural matters				
C-54	5579-81	May 17	EDM	Ryder		Inquiry procedure				
	5669			Ryder		Inquiry procedure				
C-55	5751-53	May 18		Ryder		Procedural matters				
	6015-16			Waddell		Procedural matters				
C-57	6149-50	May 20	WINN	Goudge	MVPI	Procedure of southern hearings				
	6205-06			Waddell		Filing of briefs: Canadian University Service Overseas, Winnipeg Committee, Professor Katz, Jack McLaughlin; Carman, Manitoba, Joe Borowski and Winnipeg Economic Development Board				
	6209-10			Goudge		Procedure				
	6253-55			Waddell		Telegram from Manitoba Indian Brotherhood read; letter from Lakeview Properties Limited read and filed				
	6271-72			Waddell		Filing of briefs from Canadian University Service Overseas, Alliance Against Abortion, and from Frank Cserepy				
	6309-10			Waddell		Filing of brief from Manitoba Anti-apartheid Coalition				
	C-58			6320-21		May 25	TO	Scott		Inquiry procedure
				6381				Scott		Schedule for May 26, submissions
	155			23714-20		June 30	YK	Roland		Cross-examination of Puxley, Watkins
				23725-31				Goudge		Re admission of evidence, Dr. J. Helliwell
23826-28		Goudge	Cross-examination of Forrest							
155-A	23873	June 30		Goudge		There does not seem to be a justifiable reason for having a discussion over Inquiry rules, have worked well till now				
	23893-99			Roland		Cross-examination of Jelliss				
156	23962-89			Goudge		Cross-examination of Yazzie				
C-59	6389-90	May 26	TOR	Goudge		Procedural matters				
C-62	6879-82	May 31	MTL	Roland		Inquiry procedure				
C-63	6967-68	June 1		Roland		Inquiry procedure				
C-64	7193-95	June 3	OTT	Roland		Inquiry procedure				
C-65	7367-69	June 4		Roland		Inquiry procedure				
	7434			Waddell		Inquiry procedure				
	7525			Roland		Inquiry procedure				
	7586-87			Roland		Inquiry procedure				
	7595-97			Roland		Inquiry procedure				
C-66	7595-97	June 7	CH	Roland		Procedural matters				
C-67	7668-70	June 8	HAL	Roland		Procedure of Inquiry				
	7687			Waddell		Filing of "Northern Alternatives" from magazine "Arctic"; "Community Development and Citizen Participation" by Lotz; "Impact of Oil and Shetland, Scotland" by Ian Clarke in "Shetland Times"; "Whatever Happened to Community Development" from "Canadian Welfare"				
	7741-42			Roland		Procedural rules allow response from pipeline companies				
	7758-59			Roland		Comments on procedure				
	7819-20			Waddell		Concluding remarks				

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157	24049-53	July 5	YK	Scott	MVPI	Cross-examination of Thompson
158	24170-240	July 6		Scott		Cross-examination of Hobart
	24296-97			Scott		Cross-examination of Trusty
159	24399-401	July 7		Scott		Cross-examination of Boorkman, Trusty, D. Weinstein, J. Weinstein
159-A	24534-620			Scott		Cross-examination of Boorkman, Trusty, D. Weinstein, J. Weinstein
160	24713-65	July 8		Scott		Cross-examination of Asch, Rushforth
162	24985-5047	July 13		Goudge	MVPI	Cross-examination of Trusty, Williams, Hollands, Carlson
163	25306-14	July 14		Goudge		Admissability of Helliwell's evidence
164	25438-98	July 15		Roland		Cross-examination of Trusty, Hobart
165	25659-77	July 19		Scott		Cross-examination of Burrell, Ellwood, Jensen, MacLeod
166	25691-762	July 20		Scott		Cross-examination of Burrell, Ellwood, Jensen, MacLeod
168	26064-91	July 22		Goudge		Cross-examination of Beakhust, Brody, Usher
	26106-09			Goudge		Cross-examination of Beakhust, Brody, Usher
	26112-15			Goudge		Cross-examination of Beakhust, Brody, Usher
	26116-208			Brody	COPE/ITC	Evidence in chief, cross-examination
169	26356-67			Goudge		Cross-examination of Stanley, Ruttan
171	26516-65	Aug. 17		Goudge		Cross-examination of Burrell, Jensen, Ellwood MacLeod, Deyell
	26576-619			Goudge		M. Dixon, Evidence in Chief
172	26742-46	Aug. 18		Goudge		Direct examination of Dixon
173	26887-90	Aug. 19		Goudge		Presentation of information, studies, fulfillment of undertakings by Imperial Oil, Gulf Oil Shell Oil, letter from Dr. Stephan to Dr. Fyles re Chevron permit
174	27100-35	Aug. 20		Goudge		Cross-examination of Lainsbury, Dusel, Dalby
	27148			Goudge		Scott's order of procedure with Territorial Government for Territorial employees
	27209-17			Goudge		Cross-examination of Elair
175	27335-53	Aug. 23		Roland	MVPI	Cross-examination of Hinchey, Ashton, MacLeod
176	27356	Aug. 24		Scott		Reserve question of Mr. Kosten to a later date
	267380			Scott		Preparation of materials of Mr. Button
	27449-82			Scott		Cross-examination of Button, Scott
177	27502-07	Aug. 25		Scott		Cross-examination of Wood
	27538-39			Scott		Jurisdiction of RCMP
--	27554-72			Scott		Cross-examination of Galloway, Schuerte, Wood
178	27574-611	Aug 26		Merrett Pritchard	MVPI MVPI	Evidence in chief
	27629-30			Scott		Housing, demand for higher quality; limits of Merrett and Pritchard evidence
	27642-43			Scott		Qualifying expertise of Merrett, Pritchard
	27654-59			Scott		Accepting a summary by Sigler, economic multiplier effect
	27665-725			Lowing Runge	MVPI	Evidence in Chief
179	27726-58	Aug 27		Lowing Runge		Evidence in chief
	27804-15			MacQuarrie	MHA/NWT	Cross-examination of Lowing, Runge
	27822-26			Scott		Re-examination of Lowing, Runge
	27827-28			Scott		Distribution of evidence on local government, will only call Mr. Creery if cross-examination requested; cross-examination of Gemini North and Van Ginkel authors only on request
180	27830-68	Sept 7		Goudge		Introduction of Canadian Pipeline Advisory Council panel, evidence-in-chief from Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi

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180	27870	Sept. 7	YK	Goudge	MVPI	Tendering exhibits: Advisory Council Rules of Procedure, Pipeline Construction Training Assessment, Canadian Pipeline Camp Standards, Canadian Pipeline Requirements for Northern Work, Premier of Pipeline Construction.
	27871-86			MacQuarrie	MHA/NWT	Cross-examination of Whiteford, Nessel, Hodson, Marriott, St. Eloi
	28016-37			Goudge	MVPI	Re-examination of Whiteford, Nessel, Hodson, Marriott, Dyck, St. Eloi
181	28038-52	Sept 8		McCambly LeClair	MVPI MVPI	Evidence in chief
	28084-109			Goudge		Re-examination of McCambly, LeClair
	28111-45			Mitchell Reimer Nousiainen	MVPI MVPI MVPI	Evidence in chief
	28147-49			Nousiainen Goudge		Evidence of Canadian Labour Congress is no reflection on position of MVPI
	28178-81			Goudge		Re-examination of Mitchell, Reimer, Nousiainen
	28182-98			Breckenridge McRae	MVPI MVPI	Evidence in chief
	28224-33			Goudge		Re-examination of Breckenridge, McRae
182	28235-39	Sept 9		Goudge		Qualifications of Clayton, McCombs, Forth
	28239-93			MacQuarrie		Evidence-in-chief from Clayton, McCombs, Forth
	28306			MacQuarrie		Programs carried out by Mental Health Association in Mackenzie area, HELP Distress Centre
	28348-49			MacQuarrie		Role of Canadian Mental Health Association as liaison between government, agencies and client
	28360-61			Goudge		Cross-examination of Clayton, McCombs, Forth
183	28408-12	Sept 10		Goudge		Cross-examination of Clarke
184	28498-511	Sept 14	YK	MacQuarrie		Cross-examination of Atcheson, Kehoe
	28528-37			Scott	MVPI	Cross-examination of Atcheson, Kehoe
185	28787-815	Sept 15		Scott		Cross-examination of Hildes, Mayhall, Schaefer, Case, Noble
186	28816-27	Sept 16		Scott		Introduction, evidence in chief from Basham, Braden
	28873-74			Scott		Filing of exhibits
	28951-72			Scott		Cross-examination of Snowden
	28973-74			Scott		Inquiry schedule outlined
187	29099-110	Sept 17		Roland	MVPI	Cross-examination of Falk
188	29118-23	Sept 21		Scott		Evidence in chief from David Searle
	29132-50			Scott		Re-examination of Searle
189	29253-55	Sept 22		Scott		Cross-examination of Lincoln
	29278-83			Scott		Cross-examination of Nickerson, Lafferty
	29333-51			Scott		Cross-examination of Hill
189	29351-52			Scott		Residency requirement for new immigrant before voting in Federal election, landed immigrancy
	29357			Scott		Filing population forecasts of Department of Planning and Program Evaluation
	29375			Scott		Property tax on proposed pipeline
	29409-25			Scott		Cross-examination of Smith, MacLeod, Robertson
	29461-65			Scott		Cross-examination of Goulet, Harris
189A	29549-50			Scott		Borough is equivalent of Municipal Government; corporation as a holding company for natives
	29552-71			Scott		Cross-examination of Worl, Worl, Neakok, Buchholdt
190	29573-74	Sept 23		Scott		Circulation of evidence from Dr. Michael Krauss, Dr. John T. Ritter, J.A. Bergasse, Terry Forth, J.R. Witty, R.P. Sterling, F.I. Carnew, R.G. Gates

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190	29585-91	Sept. 23	YK	Scott	MVPI	Cross-examination of Ganske
	29627-36			Scott		Cross-examination of Wasyk, Bennett, Roska, Feilden
	29638			Scott		Axe Point situation in transportation brief
	29666			Scott		"Assessment of Environment Protection Activities on the Mackenzie Valley Gas Pipeline Project" by Templeton Engineering Co., Winnipeg, tendered as exhibit
	29684-97			Scott		Cross-examination of Fogg, Fergusson, Taylor
	29714-29			Scott	Cross-examination of Henne, Robertson	
191	29732-808	Sept 24		Scott		Changes in schedule for week of October 4; anticipated completion date of evidence, procedure for submissions in final argument; evidence in chief from Hagglund, Hawryszko, Prefontaine, Leblanc, Evans
	29754			Scott		Program to update air facilities in the Arctic, completion date
	29845-71			Scott		Cross-examination of Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans
	29871-72			Scott		October 4 evidence: COPE's land claims panel; development impact on Valdez; development impact on native languages; Mr. Butters
192	29874-937		Oct 4		Goudge	MVPI
	29962-63			Goudge	Re-examination of Baring-Gould and Bennett	
	30059-61			Goudge	Re-examination of Baring-Gould and Bennett	
193	30063	Oct 5		Goudge		Inquiry schedule
	30168-71			Goudge		Discussion - argument phase
	30181-86			Goudge		Discussion - Beaufort Delta Project group
194	30272-73	Oct.6		Goudge		Cross-examination of Butters
	30326-45			Goudge		Cross-examination of Templeton, Doyle
	30412-23			Goudge		Evidence in chief, Wyle, Lipsett
	30440-46			Goudge		Cross-examination of Wylie, Lipsett
195	30574-83A	Oct.7		Goudge		Cross-examination of Mirosch, Kosten, Byers
196	30764-65	Oct.12		Scott		Filing documents: Bliss' comparison between coastal and interior routes; letter from Thompson; letter from Geist; report on frost heave by Williams; response to Williams's report
	30810-13			Scott		Order of evidence to end of Inquiry, circulation of Quiran's paper on inflationary impact of pipeline construction
	30871			Scott		Northern Engineering Services
	30896-98			Scott		Licensing by authority or Inland Waters Review Board, position of CARC questioned
	30928-72			Scott		Cross-examination of Thompson, MacLeod, Skinnerland
197	30975-79	Oct.13		Scott		Filing of Quirin's evidence on inflation; errata sheet on submission by transportation panel; Steeves' statement on malfunctioning of test apparatus in frost heave experiments, questions for CAGPL to answer
	30980-1009			Scott		Evidence in chief from Bergasse
	31078-100			Scott		Evidence in chief from Rogol
	31111-15			Scott		Public representation in regulatory process of pipeline; operation of administrative agency
198	31155-309		Oct.14		Scott	
	31179-88			Scott		Function of Training and Employment Liaison Division of DIAND; services to "native people"; dividing lines between Canada Manpower, NWT Government and DIAND
	31196-99			Scott		Status of training and employment agreement to be imposed if pipeline is built; status of manpower delivery system in NWT

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198	31257-59	Oct.14	YK	Scott	MVPI	Need for jobs in the North; opportunity for wage employment
	31261-62			Scott		Draft recommendations available on Oct.27 (Commission Counsel Report)
	31333-35			Scott		Discussion about Commission Counsel Report deadline
	31376			Scott		Nanisivik Mine agreement made an exhibit
	31404			Scott		Fumoleau's movie "I was born here"
198A	31405-48	Oct.14		Scott		Evidence in chief, Christie, Nicholson, Schulz
	31447-48			Scott		Filing of exhibits: appendices to Dyck's transcript, Weir's paper and supporting documents
	31453-56			Scott		Re-direct examination of Christie
	31460-67			Scott		Availability of Commission Counsel Report
199	31475-78	Oct.15		Scott		Commission Counsel Report, effect of delay on participants
	31599-605			Scott		Cross-examination of Beakhust, Zemansky
200	31612-35	Nov.15		Scott		Final submission
202	31869-70	Nov.17		Scott		Reply to Templeton, Commission Counsel Report
204	32299-303	Nov.19		Scott		Request that territorial government be allowed to make a submission

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155	23720-23	June 30	YK	MacQuarrie	MHA/NWT	Cross-examination of Puxley, Watkins
	23792-94			MacQuarrie		Cross-examination of Forrest
157	24031-35	July 5		MacQuarrie		Cross-examination of Thompson
158	24292-95			MacQuarrie		Cross-examination of Trusty
159	24497-526	July 7		MacQuarrie		Cross-examination of Boorkman, J. Weinstein, B. Weinstein, Trusty
160	24710-13	July 8		MacQuarrie		Cross-examination of Asch, Rushforth
161	24917-29	July 12		MacQuarrie		Cross-examination of Trusty, Williams, Hollands, Carlson
163	25194	July 14		Bell	NWT IB/MA	Cross-examination of Trusty, Hobart
	25195-211			MacQuarrie		Cross-examination of Trusty, Hobart
165	25634-42	July 19		MacQuarrie		Cross-examination of Burrell, Jensen, Ellwood, MacLeod
166	25680-90	July 20		MacQuarrie		Cross-examination of Ellwood, Jensen, McLeod
167	26009-58	July 21		R. MacQuarrie	MHA/NWT	Cross-examination of Beakhust, Brody, Usher
168	26110-12	July 22		J. MacQuarrie		Cross-examination of Beakhust, Brody, Usher
	26178-93			MacQuarrie		Cross-examination of Brody
170	26456-70	Aug. 16		MacQuarrie		Cross-examination of Burrell, Jensen, Ellwood, Deyell
172	26866-77	Aug. 18		MacQuarrie		Cross-examination of Dittrich, Kylo
174	27097-100	Aug. 20		MacQuarrie		Cross-examination of Lainsbury, Dusel, Dalby
177	27544-50	Aug. 25		MacQuarrie		Cross-examination of Galloway, Schauerte, Purdy
178	27640-47A	Aug. 26		MacQuarrie		Cross-examination of Merrett, Pritchard
185	28734-86	Sept 15		MacQuarrie	MHA/NWT	Cross-examination of Hildes, Mayhall, Schaefer, Cass, Noble
187	29033-64	Sept 17		MacQuarrie		Cross-examination of Raddi, Bruce
198	31384-404A	Oct.14		MacQuarrie		Cross-examination of Forth, Gates, Carnew, Witty, Sterling
199	31588-99	Oct.15		MacQuarrie		Cross-examination of Beakhust, Zemansky
201	31856-68	Nov.16		MacQuarrie		Final submission

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	4942-45	May 14		Reesor	NWT AM	Comment on future participation
64	9226-28	Sept.18		Bell	NWT IB/MA	Cross-examination of Foothills Panel 8 (Metallurgy)

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76	11211-24	Oct. 21		Bell		Cross-examination of Weedon, Parker
147	22350-78	Apr. 28		Sigler	NWT AM	Cross-examination of NWT IB/MA witnesses
150	22906-07	May 4		Sigler		Cross-examination of Simpson, NWT IB/MA
	22941-79			Sigler		Cross-examination of Be an, Cheezie, Kurszewski, NWT IB/MA
155	23724-25	June 30		Sigler		Admission of Helliwell's evidence
	23737-43			Sigler		Re admission of evidence from J. Helliwell
	23760-61			Sigler		Admission of Helliwell's evidence
157	24020-30	July 5		Sigler		Cross-examination of Thompson
158	24272-92	July 6		Sigler		Cross-examination of Trusty
159	24358-453	July 7		Sigler		Cross-examination of Boorkman, J. Weinstein, D. Weinstein, Trusty
162	24967-85	July 13		Reesor	NWT/AM	Cross-examination of Trusty, Hollands, Williams, Carlson
163	25211-55	July 14		Reesor		Cross-examination of Trusty, Hobart
165	25594-634	July 19		Reesor		Cross-examination of Burrell, Ellwood, Jensen, MacLeod
170	26492-514	Aug. 16		Sigler		Cross-examination of MacLeod, Ellwood, Burrell
171	26619-73	Aug. 17		Sigler		Cross-examination of Dixon
172	26750-55	Aug. 18		Sigler		Cross-examination of Dixon
	26794-821			Sigler		Cross-examination of McDiarmid
173	26963-69	Aug. 19		Sigler		Introduction to subsequent NWT/AM panels, outline of evidence to be given
	26969-27051			Lainsbury Dusel Dalby	NWT/AM NWT/AM NWT/AM	Evidence in chief
174	27072-74	Aug. 20		Sigler		Support for municipalities' panel that they should not have to defend political recommendations ie. land claims issue
	27194-209			Sigler		Cross-examination of Blair
176	27428-48	Aug. 24		Sigler		Cross-examination of Button, Robinson
177	27483-92	Aug. 25		Wood	NWT/AM	Evidence in chief
	27509-41			Galloway Schauerte Purdy	NWT/AM NWT/AM NWT/AM	Evidence in chief
	27537			Sigler		Filed exhibit stating municipalities concerns, dated April 5, 1976
	27561-64			Sigler		Intending to have panel to deal with town planning; authority needed to enact by-laws
178	27648-68	Aug. 26		Sigler		Cross-examination of Merrett, Pritchard
179	27759-88	Aug 27		Sigler		Cross-examination of Lowing, Runge
181	28055	Sept 8		Sigler		Terms of reference of Inquiry
	28207-10			Sigler		Cross-examination of Breckenridge, McRae
182	28294-304	Sept 9		Sigler		Cross-examination of Clayton, McCombs, Forth
183	28400-02	Sept 10		Sigler		Response to request of Scott to provide townplanning papers
	29403-08			Sigler		Cross-examination of Clarke
	28416			Sigler		Announcing future circulation of papers
184	28488-95	Sept 14		Sigler		Cross-examination of Atcheson, Kehoe
	28497			Sigler		Cultural element of race concept
186	28937-47	Sept 16		Sigler		Cross-examination of Snowden, Currie
187	29017-33	Sept 17		Sigler		Cross-examination of Raddi, Bruce
189	29257-78	Sept 22		Sigler		Evidence in chief from Nickerson, Lafferty
	29284-311			Sigler		Evidence in chief from D. Hill

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189	29326-32	Sept. 22	YK	Sigler	NWT/AM	Communities must take action to prevent population influxes; Mayor Robertson will speak on panel on behalf of Inuvik; plans of oil industry referred to by Bayly; Inuvik's town council plans re population growth, filed as exhibit
	29351			Sigler		Residency requirement to vote in a Federal election
	29359-91			Sigler		Introduction of panel; evidence in chief from Smith, MacLeod, Robertson
	29428-51			Sigler		Evidence in chief from Goulet, Harris
189A	29532-52			Sigler		Cross-examination of Worl, Worl, Neakok, Buchholdt
190	29574-85	Sept 23		Sigler		Evidence in chief from A.E. Ganske
	29592-627			Sigler		Evidence in chief from Watsyk, Bennett, Roska, Feilden
	29637-83			Sigler		Filing paper by Stewart, Mayor of Hay River, invitation to cross-examine; evidence in chief from Taylor, Fergusson, Fogg
	29698-713			Sigler		Introduction of panel; evidence in chief from Henne, Robertson
191	29824-45	Sept 24		Sigler		Cross-examination of Hagglund, Hawryszko, Prefontaine, LeBlanc, Evans, Rohr
192	29937-44	Oct 4		Sigler		Cross-examination of Baring-Gould, Bennett
194	30265-71	Oct. 6		Butters	NWT/AM	Evidence in chief
	30275-84			Butters		Evidence in chief
199	31470	Oct. 15		Sigler		Opts for argument the week of November 15
	31478			Sigler		Parts of Commission Counsel Report could be circulated on time
202	31981-2008	Nov. 17		Sigler		Final submission

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XXXIV	4488-89	Apr. 22	YK	Berger		Future cross - examination
XXXVIII	4945	May 14		Reesor	NWT AM	Future participation
C-4	179	May 28	Hay River	Maydonik	Hay River CC	Impact of pipeline on Hay River
	218-219			Williams	CAGPL	Construction, barges and tugs
88	13273-77	Nov. 17	YK	Berger		Request to consider construction of pipe be increased to four years
C-25	2471-73	Sept. 8	FS	Erion	NWT CC	Request explanation of CAGPL, CARC proposals
	2479-83			Erion		Economic history: Fort Simpson as development staging area, 4 year construction schedule
	2483-90			Dixon	NWT CC	Socio-economic impact of construction - impact multiplier; employment re: local northern people; wage standards - local inflation; construction workers required at peak periods; 4 year construction scheduling re: employment time for Northerners economic benefits local, national
	2490-97			Erion		Four year construction scheduling concept, local labour training programs; monitoring of applicant's local hirings, contracts; resource royalties
142	21523-25	Apr. 13	YK	Sigler	NWT CC	Evidence to be presented, Phase 4
	21625-37			Sigler		Cross-examination of Panel 1, Phase 4
143	21776-81	Apr. 14		Sigler		Cross-examination of G. Manuel, President of National Indian Brotherhood
143-A	21869-74			Sigler		Cross-examination of Russell, witness for NWT IB/MA
144	21937-40	Apr. 15		Sigler		Cross-examination of Sanders, witness for NWT IB/MA
	22067-68			Sigler		Objection to some of exhibits introduced by Bean of NWT IB/MA
	22072-76			Sigler		Cross-examination of Barnaby, witness for NWT IB/MA
175	27219-76	Aug. 23		Searle		Introduction of panel; evidence in chief from Ashton, Hinchey, MacLeod
204	32294-98	Nov. 19		Erion		Final argument

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XVII	1898-1946	Mar.13	YK	Bell	NWT IB/MA	Cross examination of Dau and Panel 1
XXIII	2738-58	Mar.21		Bell		Cross examination of Clark and Panel 2
XXIV	2767 2768-78	Apr.7		Bell		Support of Lane re: CAGPL reports Cross examination of Clark & Panel 2
XXXII	4003-17	Apr.18		Bell		Cross examination: Purcell & Panel 3
XXXIV	4432	Apr. 22		Bell		Spread camps
XXXV	4601-44 4648-51	Apr. 23		Bell Washee	NWT IB/MA	Cross examination of O'Rourke, Dau and Williams Statement re: funding and participation
XXXVI	4668-72	May 12		Bell		Supports motion to adjourn; telex from Buchanan
XXXVII	4723-37	May 13		Bell		Cross examination of Dau and Panel 4
42	5421-22	May 21		Bell		No questions for cross examination, Operations and Maintenance Panel
44	5736-5828	May 23		Bell		Cross examination of Horte
C-I	5 39-40	Apr.2	Aklavik	Sittichinli Citizen Bell		Information programs Territorial Government employees' ability to testify at the hearing
C-II	72	Apr.3		Norbert	Citizen	Witness works for NWT IB/MA
C-6	511-519	May 30	Hay River	Bell Nahanni	NWT IB/MA	Map prepared on traplines in Hay River
C-7	645-51	June 24	F.F.	Nahanni		Co-ordinator, Land Use Research Program
C-10	910-12	June 27	F.N.	Bell		Land use maps for Fort Norman area
C-12	1067-77	July 8	F. McP.	Bell N. Colin	Citizen	Land use maps
C-17	1690-95	July 16	F.L.	P. Nahanni Bell		Map of hunting, trapping, fishing areas, Fort Liard vicinity
57	8114-15	Aug. 19	YK	Bell	NWT IB/MA	Bell's request for an exhibit of the Study Group Agreement as used in Goldie's cross-examination of Blair
58	8211-12	Aug. 20		Bell		Wish to schedule a community hearing in the North Slave region in November
	8114-37			Bell		Cross-examination of Blair
59	8312-14	Aug. 21		Bell		Pipeline will be warranted by gas reserves and need; land claim settlements; N.E.B. assessment of supplies and needs; Inquiry scheduling
	8472-78			Bell		Cross-examination of Panel 3
53	7060-77 7224-39 7246-58	Aug. 13	WH	Bell Bell Bell		Cross-examination of CAGPL routing panel Cross-examination of Magistrate Sprecker Direct evidence of James Wah-shee
C-18	1798	Aug. 5	FGH	Bell		Introduction of land use maps - Fort Good Hope
C-19	1860-69	Aug. 6		Bell		Evidence led re land use maps
C-20	1914-15 1957-62	Aug. 7		Bell J. T'Selele	Citizen	Witnesses not present to give evidence Demonstration of land use maps of Fort Good Hope area
C-23	2359-60	Aug. 14	WH	Berger		Funding provided for participation
62	8823-29	Sept. 16	YK	Mirosh Bell	Foothills	Bell cross-examination of Foothills Panel 5
	8941-47			Panel 6 Bell	Foothills	Bell cross-examination of Mirosh, Scrimmes
64	9226-28	Sept.18		Bell		Cross-examination of Foothills Panel 8 (Metallurgy)
65	9491-94	Sept.19		Bell		Cross-examination of Foothills Panel 9 (Geotechnical)
67	9876-9901	Sept.20		Bell	NWTIB/MA	Cross-examination of Foothills Panel 10 (construction)
68	10061-64	Sept.24		Bell		Cross-examination of Foothills Panel 11 (Operations & Maintenance)
	10159-62			Bell		Cross-examination of CAGPL witnesses (resumed) re contractors & spread productivity
	10188-93			Bell		Cross-examination of Templeton (EPB)
69	10445-54	Sept.25		Bell		Cross-examination of Owen
72	10712-15	Oct. 15		Bell		Cross-examination of D. Longlitz
76	11211-24	Oct. 21		Bell		Cross-examination of Weeden, Parker

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77	11378-79	Oct. 22	YK	Bell	NWT/AM	Cross-examination of Rutter
81	12016-21	Nov. 5		Bell		Cross-examination of CAGPL Panel-Environmental Impact (Phase 2)
90	13722	Nov.19		Bell		Questions asked in other cross-examination
91	13901-11	Nov.20		Bell		Cross-examination of McCart, Hemstock re: domestic fisheries losses, compensation, Peel River
97	14720-34 14759	Dec.5		Bell Bell		Cross-examination of Jakimchuk re impact on moose Terms and conditons, recommendations from expert witnesses as aid to Inquiry
99	15133-35	Dec.9		Bell		Cross-examination of Whitney, Bouckhout (Foothills), moose in Mackenzie River islands, movements impeded
103	15798-99	Dec. 15		Bell		Cross-examination of Stein
106	16154-55	Dec. 18		Father Fumoleau	NWT IB/MA	History of Indian people of NWT presented to Berger
108	16415-21	Jan. 13		Bell		Cross-examination of EPB Environmental Panel
C-24	2407-12	Aug. 23	TL	Nahanni	NWT IB/MA	Presentation of hunting and trapping land use maps of the Trout Lake area
	2408-11			Nahanni		Tradition hunting, trapping routes, camps
	2422-26			Nahanni		Questions re: traplines
	2457-65		NB	Nahanni		Presentation of hunting and trapping land use maps of the Nahanni Butte area
C-26	2657-62	Sept. 9	FS	P. Nahanni	NWT IB/MA	Summary of education; need for Indian involvement; opposition to pipeline; concern re: destruction of native people; land settlement; map re: trapline routes and travel routes
117	17833-74	Jan.26	IN	Bell		Cross-examination of Sider, Tod, Wopnford re Van Ginkel Report; northern economy, employment; development alternatives; government policy in north; NORTRAN; International Labour Organization
118	17991-99	Jan.27		Bell		Cross-examination of Czaja, Horsfield, Motyka
135	20413-23	Mar. 25	YK	Bell		Admissibility of COPE evidence on western Arctic petroleum development
137	20786-87	Apr. 5		Bell		Support for proposed evidence of Nicol on Mizushima oil spill in Japan
138	20985-86	Apr. 6		Bell		Cross examination of Simmons
142	21598-624	Apr. 13		Bell		Cross examination of Virtue, Behn, Giroux, Panel 1, Phase 4
143	21739-842	Apr. 14		Bell		Presentation of evidence, Phase 4
143-A	21843-86			Bell		Presentation of evidence by Russell, NWT IB/MA
145	22081-222	Apr. 26	YK	Bell		Presentation of evidence by Oxfam and churches
146	22228-348			Bell		Presentation of evidence by Young, Jones, McCullum, Richardson, Page
147	22349-538	Apr. 28		Bell		Presentation of two panels of witnesses for NWT IB/MA
148	22539-737	Apr. 29		Bell		Panel for NWT IB/MA resumed from previous day: Snowshoe, Greenland, Pellissey, Nahanni, Menicoche
149	22746-852	May 3		Bell		Presentation, cross-examination of witnesses
150	22853-23038	May 4		Bell		Cross-examination of witnesses Hills, Simpson, Bean, Cheezie and Kurszewski
151	23178-80	May 5		Bell		Cross-examination of Smith, Lueck, CYI
	23208			Bell		Cross-examination of Smith, Lueck, CYI
152	23302-04	May 6		Bell		Address question of prejudice re land claims proposal
	23361-64			Bell		Cross-examination of Notti
	23398			Bell		Support for Veale's motion that hearings be held in Yukon communities re proposal by Northwest Pipeline and Westcoast Transmission to transport gas from Prudhoe Bay via Fairbanks corridor
C-40	3846-48	Feb.23	AK	Bell		Land use maps

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C-50	5072-76	May 11	VAN	Antoine	NWT IB/MA	Dene situation re land use
154	23527-631 23640-50	June 29	YK	Bell	NWT IB/MA	P. Puxley, M. Watkins Comments on opposition to admission of evidence from John Helliwell, NWT IB/MA
155	23734-59	June 29		Bell	NWT IB/MA	Re admission of Helliwell's evidence
155-A	23833-900	June 30		Jelliss	NWT IB/MA	Evidence In Chief
156	23902-90	July 1		Gillie Overvold Yazzie Kakfwi Bell	NWT IB/MA NWT IB/MA NWT IB/MA NWT IB/MA	Evidence In Chief and Cross-examination relating to education in NWT
C-60	6757-58	May 27	TOR	C. Overvold	NWT IB/MA	Native decision making, pipeline
C-63	7185-86	June 1	MTL	Paulette	NWT IB/MA	Government and the Dene
C-67	7752-54	June 8	HAL	S. Kakfwi		Response to briefs presented
157	23991-4020	July 5	YK	Bell		Introduction of Andrew Thompson, former chairman of British Columbia Energy Commission; evidence in chief from Thompson
	24054-56			Bell		Re-examination of Thompson
158	24151-69	July 6		Bell		Cross-examination of Hobart
160	24621-658	July 8		Bell		Evidence, cross-examination of Asch, Rushforth
165	25643-50	July 19		Bell		Cross-examination of Burrell, Ellwood, Jensen, MacLeod
167	25958-67	July 21		Bell		Cross-examination of Beakhus, Brody, Usher
168	26172-78	July 22		Bell		Cross-examination of Brody
169	26209-325	July 23		Bell		Ruggan, T'Seleie, Stanley, evidence in chief
186	28948-51	Sept 16	YK	Bell		Cross-examination of Snowden
187	29071-98	Sept 17		Bell		Introduction of Professor Falk, distribution of Ian Brownlie's document; evidence in chief from Falk
203	32204-42	Nov.18		Bell		Final argument, Indian Brotherhood
204	32243-60	Nov.19		Hardy	NWT IB/MA	Final argument, Metis Association

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XXXVI	4655-68 4670 4697-98	May 12	YK	Lucas Bell Lucas	CARC NWT IB/MA	NAG: its relation to CARC NAG - funding and participation CARC's cross exam dependent upon NAG
XXXVII	4700 4723	May 13		Scott Bell	MVPI	Northern Assessment Group Northern Assessment Group
48	6327-29 6373-74 6437-39	June 4		Wilimovsky Wilimovsky Templeton	EPB EPB	Public role in environmental protection Environmental auditor group; recommendation Need for independent, public monitoring group
50	6624-36	June 6		Horte	CAGPL	Public participation including Native people
51	6753-60	Aug. 11	WH	Smith	Gov't Yukon	Commissioner of Yukon Territory
111	16960-61	Jan. 16	YK	Lent	Alaska Conservation Society	Information on Society; article from Society magazine an exhibit; will present brief before Inquiry
116	17730-31	Jan.24	In	Ballem	GPC-D	Offer to file Slaney and Associates reports on whales
117	17757-58	Jan.26		Ballem		Undertakings, White Whale Study; Environmental Impact Assessment; Immerk Artificial Island; Summer Environmental Programs, Mackenzie River Estuary, three volumes; oil spill clean up equipment list, model of Imperial's contingency plans
	17818			Ballem		Impact of compression facilities, hazards of transporting raw gas
	17821-33			Ballem		Evidence-in-chief from Sider, Tod, Wopnford

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117	17836 17873	Jan.26	IN	Ballem Ballem	GPC-D	Response to report of Van Ginkel and Associates Filing of Mollard's Gravel Inventory Survey, Richards Island and adjacent areas
118	17991 17992 18098-102	Jan.27		Ballem Ballem Berger		Introduction of policy panel: Czaja, Horsfield, Motyka Czaja, Horsfield, Motyka, policy witnesses for companies, not government Cross-examination of Czaja, Horsfield, Motyka re drilling in the Beaufort Sea
119	18137-40	Jan.28		Berger		Cross-examination of Shearer
120	18350-55	Jan.29		Berger		Cross-examination of Martell
123	18858-67	Feb.12		Veale	CYI	Cross-examination of Yates
126	19252-55	Feb.16		Berger		Cross-examination of Snow
143	21754-75 21777-87 21788-807	Apr. 14	YK	Manuel Manuel Cardinal	NIB IAA	G. Manuel, President of National Indian Brotherhood G. Manuel H. Cardinal, President of Indian Association of Alberta
145	22081 22093-113	Apr. 26		Scott Brownstone Rolfe	MVPI Oxfam	Mental Health Association of NWT to become participant in the Inquiry Presentation by Oxfam
C-40	3816-19 3823-24 3830-37	Feb.23	AK	Bayly Usher Bayly	COPE/ITC COPE/ITC	Presentation of evidence of Aklavik Hunters, Trappers and Fishermen; maps of traditional hunting and fishing areas; report accompanying maps "Eskimo land use and occupancy in the Western Arctic" by Usher Description of traplines on map for Archie; caribou, geese whale hunting areas Aklavik hunters, trappers, fisherment describe traditional areas
C-42	4077-78	Mar.5	SACHS	A. Carpenter	Citizen	Rare moss on Banks Island, location on maps by Shoran Lake
172	26756-94	Aug. 18	YK	McDiarmid	Citizen (COPE/ITC)	Evidence in chief

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XVII	1960-69 1992-93	Mar.13	YK	Mollard Mollard	CAGPL	Permafrost, east & west of Mackenzie River Permafrost & borrow operations in river beds
XIX	2171-77 2180-89 2196-98 2201 2203-04 2206-07 2208-10 2211 2217-18	Mar.17		Clark Clark Williams	CAGPL CAGPL CAGPL	Existing pipelines in permafrost terrain - Pointed Mountain, U.S.S.R. Re: river crossings, slope stability, buoyancy, frost heaving Sans Sault test site; verifying chilled gas concept Thawing; thermokarst development Soil conditions at test site Seismic cuts in permafrost Ditching in permafrost Grading in permafrost
XIXA	2234-37 2262-70 2271-75	Mar.17		Clark Clark Clark		Sans Sault, Norman Wells, Prudhoe Bay test sites Route selection; terrain stability; karst features Pipeline stability, safety; pre start up; post start up; access roads; foundations of compressor stations; communications towers Pipeline burial in permafrost; buoyancy problems; temperature changes at start up; differential settlement; peat plateaus
XX	2300-12 2312-41	Mar.18		Clark Slusarchuk	CAGPL	Chilling pipe; frost heave; water migration in frozen soils; ice lenses; thermal gradients; differential heave; discontinuous permafrost Slide presentation re: frost heave; CAGPL study and results at Calgary site; depth of burial; apparatus for measuring soil temperature; measuring frost heave; frost bulb; supply of water ice lenses; low vs. high overburden pressures; application of information; prediction of heave; heave curve; effect of deeper burial, water table level; timing of frost heave

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XX	2362-63 2363-64 2366-72	Mar.18	YK	Morgenstern Clark	CAGPL CAGPL	Slope stability; report; application to pipeline design Presence/absence of permafrost under rivers, drilling PAAG Report Slope stabilization measures for permafrost terrain; Cv; identifying slopes with potential for shallow failure retrogressive thaw flow slides; creep of ice-rich soils	
	2397			Clark		Drilling programs to establish presence/absence under rivers	
XXI	2424	Mar.19		Hollingshead	CAGPL	Bore holedata, absence of permafrost under rivers	
XXII	2532- 2616-23	Mar.20		Clark Williams Slusarchuk	 CACPL CAGPL	High ice content permafrost areas, unstable terrain Sans Sault - frost heave in permafrost, ice ridge affecting cross drainage	
XXIII	2714-19 2735-37	Mar.21		Clark Berger Clark		Frost-susceptible soil - brost bulb & ice lensing, environmental effects, discontinuous permafrost Chilled & non-chilled pipe	
XXIV	2772-74 2857-60 2862-65	Apr.7		Clark Clark Hardy	 CAGPL	Elevated pipe: clearing ROW - thermal disturbance Frost bulb in berm - effect on revegetation Changes due to vibration from compressor stations	
XXV	2985-90 3048-49 3080-81	Apr.8		Cooper Berger Scott	CAGPL MVPI	Melting causing holes, problem of buried pipe Bank restoration Rivers not underlain with permafrost	
XXVI	3091-94 3129-50 3161-65 3193-3201 3201-06 3214-17 3226-27 3267-75	Apr.9		Scott Slusarchuk Slusarchuk Scott Clark Slusarchuk Slusarchuk Clark	 MVPI CAGPL	Drilling in beds Pipe burial in discontinuous permafrost Unfrozen bog, frost-susceptible soil, frost bulb, frost heave Segregated ground ice, McKay paper Areas of continuous, discontinuous, chilled pipeline rationale Insulated pipe, frost bulb Frost bulb, ground water drainage, ice lenses, driving gradients, thermo-gradients, discontinuous permafrost	
XXVII	3300-03 3307 3330 3350-67 3376 3402 3427-34	Apr.10		Williams Williams McRoberts Scott Scott Scott McRoberts	CAGPL CAGPL MVPI	View graph, drillholes, varying ice content Sans Sault test site Sans Sault test site, permafrost slope Clearing, degradation of permafrost, time span Degradation, heave, Battell-Brooker, E.R.P. Temperature prediction, freeze/thaw Ice wedges, cracking in cold weather, continuous permafrost	
XXVIII	3438-55	Apr.11		Scott		Below river beds, depth	
XXVIII	3455-58 3476-80 3486-88 3501-25 3536-37 3555-57			Scott Scott Clark Scott Morgenstern Morgenstern	 CAGPL	Pipeline burial, river crossings, geophysical surveys Open system pingoes, Yukon Culverts, through permafrost Slope stability problems, land slides, prediction slope failure Instability, frozen slope Unfrozen soil, permafrost base, stability	
XXIX	3584-86 3592-3600 3605-10 3615 3631-33 3667-71	Apr.14		Clark McRoberts Purcell	 CAGPL	Frost heave, ice lenses melting, penetration of frost bulb Bore holes-amount & form of ice/water in soils Possible permafrost below Shallow Bay Drilling important in discontinuous permafrost Pipe surrounded by ice, cracking of frozen ground Special design considerations	
XXX	3729-31 3741 3765 3809-10	Apr.15		Purcell Purcell Purcell Purcell		Chilled gas, ground temperature Coating systems, cathodic protection Buried/above-ground Scale, length of pipeline	
XXXI	3969	Apr.16		Reid	CAGPL	Thaw, warm water testing for thirty hours	
XXXII	4063-64 4084-87 4098-4102 4119-22	Apr.18		Purcell Price Reid Reid	CAGPL CAGPL	Protection of possible rupture by frozen ground Frozen soil brittle, may crack and release stresses Cathodic protection - effectiveness in permafrost Predominant test method in permafrost - methanol	

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XXXIII	4300-01	Apr. 21	YK	Dau	CAGPL	Arctic construction - fill not grade
	4309			Williams	CAGPL	Compression of surface vegetation to induce frost
	4338			Dau		Burning sites - avoid degradation of permafrost
	4384-85	Apr. 22		Dau		Testing winter hydrostatic pipeline testing, warm water test method water-freeze depressant solution
XXXV	4612	Apr. 23		Williams		Ditcher teeth to cut through frozen ground
XXXVIII	4878-83	May 14		Williams		Ditching machine
	4888-94			Lucas	CARC	Special techniques, sensitive terrain
	4994-95			Williams		Freezing level of the earth
XXXIX	5081-91	May 15		Williams		River crossings - culvert through frost bulb
	5092-96			Dau		Arctic construction method to prevent regression
	5107-21			Williams		Arctic and conventional construction - areas of use
	5124-28			Harlan	CAGPL	Stability of backfill
	5145A-46			Harlan		Erosion windrows not expected to cause melting beneath
40	5191-5202	May 16		Fielder	CAGPL	Soviet pipeline design, construction and operating techniques
	5228-29			Hurd	CAGPL	Excavation around operating pipeline, special procedures
41	5274-81	May 20		Fielder		U.S.S.R. pipelines, minimal permafrost
	5338-49			Fielder		U.S.S.R. lines built partially in permafrost
42	5474-76	May 21		Scott Hurd	MVPI	Regression, ground surface depressions
	5495-96			Hurd		Permafrost table, edges of the ROW; regression
45	5911	May 24		Bayly	COPE/ITC	Chilling, secure line in permafrost
46	6106-18	June 2		Adam	EPB	Terrain sensitivity, disturbance causes degradation
	6121-35			Adam		Potential terrain degradation
47	6299-6313	June 3		Adam		Problems of technique of buried, chilled pipeline
48	6396-6402	June 4		Bliss	EPB	Clearing causes geothermal changes
	6409-10			Adam		Drainage control sec 22 of Code
C-II	91-92	Apr. 3	Aklavik	Sittichinli	Citizen	Depth from surface; trapping
59	8401-06	Aug. 21	YK	Mirosh	Foothills	Areas of continuous and discontinuous permafrost; route in frozen and non-frozen ground, permafrost depths; ground susceptibility
60	8579-80	Aug. 22		Scott Mirosh	MVPI	Building of community supply laterals; previous experience with pipeline building
51	6790-91	Aug. 11	WH	Hemstock	CAGPL	Ice content soils, zones of continuous and discontinuous permafrost
	6804-10			Hemstock		Slope stability; ditching; disturbance, restoration, drainage control measures
	6842-44			Dau	CAGPL	Fairbanks corridor, miles of continuous and non-continuous permafrost
52	6946-47	Aug. 12		Clark	CAGPL	Degree of ice-rich permafrost along various routes
53	7153-58	Aug. 13		Clark		Geotechnical comparison of routes
54	7457	Aug. 14		Weeden	CARC	Impact of Fairbanks, Fort Yukon corridors re: frost heave and permafrost degradation phenomena
	7470-88			Weeden		Disturbances and long term effects, degradation, heat balance, thermal erosion and melting; dissolved solids; continuous and discontinuous areas
	7485-86			Weeden		Valleys south of the Brooks Range (Interior route) contain continuous permafrost soils
	7493-95			Weeden		Fort Yukon Corridor; slope instability; degradation of the permafrost
	7500-05			Weeden		Bed of Beaufort Sea; off-shore alternatives, temperature change; frost-heave; land permafrost ice scour
	7510-15			Weeden		Fairbanks Corridor; thermokarst lakes; pingos; topographic analysis; impact of a chilled pipeline; repair and maintenance; limited temporal conditions; permafrost degradation; discontinuous areas of permafrost

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54	7537-38	Aug. 14	WH	Parker	CARC	Highway construction on discontinuous permafrost; unstable soils; variability of permafrost soils
	7569-72			Parker		Pipeline design; elevation of the line in unstable permafrost areas; frost stable areas; encounter soil conditions in the field; field engineering; soil profiles
55	7605-24	Aug. 15		Hughes	CARC	Ice content soils, ice segregation; thermokarst ponds and previous existence of ground ice; depression; distribution dependent on climate, vegetation cover; winter snow cover; organic cover; hydrology
C-20	2062	Aug. 7	FGH	A. Rabisca	Citizen	Thermokarst
C-22	2245	Aug. 11	WH	Berger		Design concepts of buried, chilled line
61	8652	Sept. 15	YK	Marshall Mirosh	CAGPL Foothills	South of Fort Simpson is an area of discontinuous permafrost
	8684-90			Mirosh Hensch	Foothills	Heat transfer to surrounding soil, outage downstream; chilling and temperature lag-time; opposite effect of Joule-Thompson
61-A	8702-09			Mirosh		Frost heave; chilled pipeline; freeze and thaw phenomena, block valves, frost anchors
	8712-54			Panel 5	Foothills	Ditching, bedding, bending, backfill materials; frost heave and normal soils; ice lenses; pipe movements; soil/pipe interface; longitudinal movement, pipe buoyancy
62	8784-85	Sept. 16		Glockner	Foothills	Professional experience
	8848-54			Mirosh		Ice-rich soils, frost heave; thaw settlement, restoration; ditch line will thaw; pipe support structures
63	8986-89	Sept. 17		Lazerte	Foothills	Chilled pipeline; soil temperatures; temperature range depending on the season
	9038			Lazerte		Difficulty of drilling wells in permafrost and ground ice
	9082			Mirosh Lazerte		Compressor stations located on permafrost terrain; sewage lagoons in permafrost
	9138			Shelton	Foothills	Decreases chance of fire after pipeline rupture
64	9248-51	Sept. 18		Holtsbaum	Foothills	Frost bulbs decrease corrosion; flow current in ice rich soil; problem of using cathodic protection in permafrost areas
	9277-82			Yip	Foothills	Role of overburden pressure in minimizing heave
	9328-29			Mirosh		Number of compressor stations located on permafrost
	9339-43			Yip	Foothills	Moisture transfer effects of consolidation in frost heave
	9361-63			Claridge	Foothills	Experience with permafrost; regional study along pipeline route
	9396			Claridge		Advantage of route through Ebbutt Hills in relation to frost heave
	9437-51			Claridge		Poor pressure development due to ground ice
65	9452-53	Sept. 19		Hwang	Foothills	Familiarity with report on thaw consolidation
	9492-93			Davison	Foothills	Problem of permafrost at Snare River Dam Site
	9521-40			Yip Hwang		Methodology in determining southern point of chilling & frost heave prediction
	9555-86			Claridge		Thaw, active layer & conditions studied in two sample areas
	9589-92			Claridge		Slope stability studies in permafrost
	9606			Bauer	Foothills	Winter construction in permafrost considered similar to muskeg
	9623			Kosten	Foothills	Ditching in permafrost
66	9658-60	Sept. 22		Mirosh	Foothills	Clearing in sensitive terrain
	9674-99			Bauer		Areas where clearing to take place in advance of construction; avoidance of fine-grained, ice-rich soils; clearing between camp locations; use of shoofly roads; avoidance of slope problems; use of winter road; exposure after clearing

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66	9694-99	Sept.22	YK	Bauer	Foothills	Side slopes on permafrost; backfill & borrow requirements
	9710-11			Jarvis	Foothills	Recommends no preparatory work in sensitive areas
	9756-63			Kosten	Foothills	Modified blasting technique in continuous permafrost
67	9844-52	Sept.23	YK	Mirosh	Foothills	Borings north of Norman Wells contain large amounts of silt & increasing number of ice lenses northward; difficulty of slope stabilization on this sensitive terrain; scheduling in clearing
	9931-33			Mirosh		Effects of thaw periods after clearing
	9940-44			Mirosh		Grubbing of stumps removed immediately prior to construction in permafrost areas
	10026			Bauer	Foothills	No application north of 60° of mound over ditch to prevent frost
	10033			Jarvis	Foothills	Depth of frost necessary for roads
68	10048-49	Sept.24		Hushion	Foothills	Destruction between terrain similar to northern Alberta & truly northern terrain
69	10236-68	Sept.25		Williams	MVPI	Frost heave; freezing soil; polling forces; shut-off pressure; water movement in frozen soil; ice lenses
	10270-93			Williams		Studies and reports re: frost heave; soil temperatures; hydraulic conductivity; ice lenses; chilled pipeline
	10297-353			Williams		Studies; prediction of heave, water content in soils; ice lenses; measurement of frost heave; differential heave
	10353-70			Williams		Over stressing the pipe; soil/pipe interaction
	10370-72			Williams		Depth and composition of active layer; pipe burial; shut off pressure
	10372-75			Berger Williams		Research in Norway and United States, Scott Polar Institute
	10383-84			Owen	MVPI	Areas of continuous and discontinuous permafrost along Pointed Mountain Pipeline route; study re: location of permafrost areas
70	10507-08	Sept.26		Owen		Snow roads; Pointed Mountain Line; areas of permafrost along route
	10512-13			Owen		Surveys; presence of permafrost in permafrost areas; borrow pits
	10517-22			Owen		Clearing for gathering lines; location of continuous and discontinuous permafrost
	10547-53			Longlitz	MVPI	Removal of surface material--degradation of permafrost; vegetation clearing; frost penetration re: snow roads; uncovering of ice lenses
	10557-63			Longlitz		Depth of frost penetration re: snow roads, winter construction; effects on permafrost if construction continues into the spring
	10575-76			Lewis	MVPI	Yukon North Slope Rivers; bed scour; bed armour; depth of unfrozen layer beneath the main line water channel; frozen sediments found in river beds
	10584-85			Lewis		Ice rich sediments; block slumping, thermal niching
	10591-92			Lewis		Battelle report, CAGSL research re: frost bulb, Malcolm and Firth Rivers; maximum depth of permafrost; ground water flow
72	10718-31	Oct.15		Marshall Longlitz	CAGPL	Ice rich soils; frost penetration; induced frost penetration and snow cover; damage to right-of-way and access roads; testing in Inuvik; costly repair of right-of-way re: rutting, erosion due to lack of adequate frost penetration; discontinuous permafrost areas re Fort Simpson to 60th; all-terrain vehicles; construction scheduling
	10732-35			Berger		Comparing Dr. Clark and Dr. Williams' testimonies re: frost heave; need for a chilled pipe; pulling forces in permafrost
	10742-46			Berger		Frost heave in unfrozen and frozen soils, river crossings; chilled pipe; Dr. Williams' testimony; questions Dr. Clarke
	10747-57			Lewis		Use of culverts in discontinuous permafrost areas; movement of water; frost wall and frost bulbs; frozen boundaries of rivers; conduction of water; intermittent water flows; Battelle model
	10763-67			Lewis		Retreating coast; unconsolidated sediments with large amount of ground ice; dredging; Tuk peninsula

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72	10779-812	Oct.15	YK	Adam	EPB	Pipeline chilling; continuous and discontinuous permafrost areas; thaw settlement and localized erosion; frost bulb and frost heave; Adams opinion re: Dr. Clark; Dr. Williams' testimonies
73	10827-970	Oct.16		Frost Heave Panel	CAGPL	Terrain conditions; chilled pipeline; areas of continuous and discontinuous permafrost; high ice content soils; pipeline design; frost heave; mechanics, theory and testing of frost heave and frost bulbs; Dr. Williams' testimony re frost heave; soil/pipe interaction; thaw settlement
74	10874-11013	Oct.17		Williams	CAGPL	Areas of continuous and discontinuous permafrost; depth of frost penetration and snow cover; snow roads; startup and shutdown dates; right-of-way, environmental impact
75	11081	Oct. 20		Weedon	CARC	Impact of pipeline in continuous and discontinuous permafrost areas
76	11152-55 11207-10 11299-338	Oct. 21		Weedon Parker Hughes	CARC CARC CARC	Soil studies along Alyeska corridor; ice lenses Pipe burial, insulation of pipe; soil degradation Occurrence of permafrost in the Mackenzie Valley, permafrost map of Canada, areas of continuous and discontinuous permafrost
77	11346-442 11452-88	Oct. 22		Rutter Roed	CARC CARC	Areas of ground ice, discontinuous and continuous regions of permafrost; frozen bogland; mapping, reports and studies; terrain and vegetation information; Mackenzie Valley area; ice content soils; Blackwater River, Willowlake River area Edge of the shield route; fluted moraines, terrain advantages; areas of continuous and discontinuous permafrost
78	11539 11613-74	Oct. 23		Roed Minning	 CAGPL	Areas of continuous and discontinuous permafrost re: edge of the shield route Reading of Phase 2 evidence; CAGPL's evidence outline; re: location and research of permafrost areas; frost heave, soil degradation; terrain sensitivity
79	11697 11719-20 11732-43	Nov. 3		Minning Dabbs Harlan	CAGPL CAGPL CAGPL	Borrow development of fossil flood plains dependent on ground water and ice content Effect of vegetation on geothermal regime Slide presentation on phenomenon of icing
80	11786 11805-20 11843-47 11923-38 11939-50	Nov. 4		Dabbs Clark Harlan Clark Williams	CAGPL CAGPL CAGPL CAGPL	Buildup of dead plant life maintains permafrost 'Warmer' permafrost areas in relation to cut slopes Classification of erodibility and drainage of soils - ice content factor Cost of placing pipeline on piles in ground; temperature of gas; use of snow roads; geothermal information Methods of clearing of permafrost terrain; thaw settlement, excess pore pressure and slope instability; revegetation as a thermal balance
81	11972-88 12003-04 12062-63	Nov. 5		Clark Harlan Williams Clark	 CAGPL CAGPL	Subsurface drainage; ice lenses Sewage lagoons not excavated in permafrost Problem of presence of ice and snow in granular fill placed over berm; thaw settlement; surcharge loads
82	12139-40 12176-77 12179-88 12282-85 12286-89	Nov. 6		Dabbs Williams Harlan Harlan Hemstock	 CAGPL CAGPL CAGPL CAGPL	Snow melt and thaw settlement of material in mound in spring Coastal route favourable because changes in permafrost terrain can increase thickness of active layer and ponding Height of active layer; mound breaks Environmental risks in thaw settlement problems Impact of abandonment
83	12340-42 12414	Nov.7		Dabbs Scott Minning	CAGPL MVPI CAGPL	Tests on removal of tundra mat done before ground frozen; dead tundra mat could be used as insulation for backfill Occurrence shown in borrow pit plan

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83	12500-505	Nov. 7	YK	Scott Harlan Williams Minning	MVPI CAGPL CAGPL	North Slope, Permafrost degradation, borrow pit near river; frozen gravel, fossil flood plains
84	12528-41	Nov. 8		Environmental Panel	CAGPL	Disposal of ice-rich spoil material; distance from rivers, disposal on river ice; culverts through frost bulb under rivers
86	12823-48	Nov. 13		Drew Davison Claridge	Foothills Foothills Foothills	Terrain sensitivity; drainage, slope stability erosion, studies, prevention
	12877			Lawrence	Foothills	Location, sewage treatment plant
	12985-87			Lawrence		Sewage disposal, frozen ground areas
87	13183-92	Nov. 14		Drew		Included in terrain sensitivity ratings
88	13237-42	Nov. 17		Lawrence	Foothills	Sewage lagoons in permafrost
90	13693-715	Nov. 19		Dabbs	CAGPL	Restoration of permafrost table after re-vegetation, ponding in settled areas over pipe
100	15333-38	Dec. 10		Whitney Bouckhout	Foothills Foothills	Permafrost degradation along abandoned CNT line mile 90 to 120
101	15448-57	Dec. 11		Zoltai	CARC	Studies for E-S P; interrelationship, permafrost, terrain, vegetation; hazards of northern construction; ponding; palsas; fens
	15460-72			Zoltai		Hummocky terrain; potentially hazardous areas; effect of width of ROW; Ebbutt Hills area; effects of fire; North Yukon routes; revegetation
	15473-505			Zoltai		Artificial insulation to prevent thermal erosion; palsas in fenland, loading berm to counteract, effects on pipe, thermokarst development, fenlands; Ebbutt Hills 90% frozen; palsa formation
	15534			Zoltai		Unchilled pipe will melt ice lenses in unfrozen fens
102	15581-83	Dec. 12		Zoltai		Artificial palsa formation in wet fenland
	15587			Zoltai		Alyeska construction, dealing with sensitive permafrost areas
	15608-09			Peterson	CARC	Monitoring sites should be one in continuous, one in discontinuous permafrost zone
107	16314	Jan. 12		Templeton	EPB	Areas around the Ebbutt Hills and Delta
108	16598-06	Jan. 13		Adam Templeton	EPB	Thaw settlement; snow roads; seismic lines; erosion; depression
109	16604	Jan. 14		Templeton		Assessment of impact of contact of a cold pipeline with non-permafrost areas
C-25	2547-49	Sept. 8	FS	Ellwood	Foothills	Pipeline repair in permafrost
112	17041	Jan. 20	In	Bliss	GPC-D	Mackenzie Delta landscapes constantly modified by changes
114	17283-91	Jan. 22		Mainland	GPC-D-1	Taglu gas field; drilling fluid disposal sump could melt permafrost; thaw around wells; refrigeration around well surface; field pipes etc. will be elevated; height of flare stack; elevation, gravel pads for protection
	17339			Bayly Mainland	COPE/ITC	Russians use ice core in insulating pads; protection of permafrost
	17392-95			Mainland		Taglu gas field, foundation design to prevent permafrost melting
	17416-17			Mainland		Taglu gas field, refrigeration of top 60 feet around wells
115	17489	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, using ice core in dykes to save gravel
	17502			Faulkner		Niglintgak gas field, will not remove willows, good for insulation of permafrost
116	17629	Jan. 24		Stamberg	GPC-D-G	Waste waters effect in permafrost, technical problems
	17649			Rempel	GPC-D-I	Destruction of vegetation under airstrips, pads, facilities and roads, insulating material for permafrost
119	18133-37	Jan. 28		Shearer	COPE	Permafrost under sea bed, distribution, ice richness
124	18876-84	Feb. 13		Shearer		Historical summary - offshore permafrost, pingo formation

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124	18899	Feb.13	IN	Lewis	COPE/ITC	Ground ice in Beaufort Sea coastal zone - coastal retreat
	18906-07			Lewis		Relevance of coastal ice to harbour, pipeline construction
125	19020-23	Feb.14		Lewis Shearer		Problems related to buried flowlines in coastal retreat areas; lack of danger - pingo formation
	19028-36			Lewis Shearer		Frozen ground below Shallow Bay - sediment consolidation; offshore drilling - permafrost complications
	19063-73			Lewis		Stabilization of Tuktoyaktuk shoreline; sediment compaction in Shallow Bay; permafrost distribution in delta, thaw zones
130	19755-58	Mar.16	YK	Hollingshead	CAGPL	Along cross-Delta route, tests done
	19827			Williams	CAGPL	Depth of permafrost in Shallow Bay
131	19857-58	Mar.17		Clark	CAGPL	Ditching, Langley Channel crossing
	19865-66			Williams		Construction in permafrost, Cross-Delta route
	19972-73			Hollingshead		Permafrost conditions in Delta
132	20076-78	Mar.18		Clark Hollingshead		Permafrost under Shallow Bay; compaction due to melting; soil not ice - rich
	20096-104			Engineering Panel	CAGPL	Permafrost in banks slows erosion; permafrost patterns in Delta
151	23075	May 5		Irving	CYI	Preservation of broken bones, archaeological sites
C-60	6676-77	May 27	TOR	E. Welsh	Citizen	Use of construction equipment; stability of land use forms
C-77	8396	Aug.26	DET	J. Sangris	Citizen	Can not grow anything
193	30086	Oct.5	YK	Hernandez	EPB	Overland travel on thawed ground should be restricted to permanent roads, gravel pads
195	30576-77	Oct.7		Mirosh Kosten	Foothills Foothills	Open ditch degradation during Aug.15-Oct.31
195A	30762-63	Oct.7		Dau	CAGPL	Errors found in lab frost heave test results
201	31804-07	Nov.16		Gibbs	Foothills	Prefer to deal with settlement rather than frost heave; can forecast the outside limits of frost heave; will use insulation to limit heave
	31842-45			Templeton	EPB	Pipeline chilling termination point
202	32042-48	Nov.17		Anthony	CARC	CAGPL remedial measures for frost heave, sub-surface drainage require re-evaluation; limit of chilling

PERSONAL AND FAMILY PROBLEMS

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143	21717-22	Apr. 14	YK	Virtue Giroux	Nortran Nortran	Money and budgeting, domestic problems, alcohol problems
151	23110-12	May 5		Cruikshank	CYI	Creation of permanent settlements, greater government assistance, social breakdown of families
	23141-42			Johns	CYI	Women, problems with involvement with U.S. Army, crews, building Alaska highway
C-51	5135-36	May 12	VAN	L. Hurst	Citizen	Skid road areas, family and community breakdowns
C-53	5430	May 14	CAL	Getty	Citizen	Neglect of families due to social upheaval from construction of Big Horn Dam
159	24503-07	July 7	YK	Boorkman	CAGPL	Alaska, overcrowding in housing, family breakups, child abuse, increase due to pipeline
163	25110	July 14		Hobart	CAGPL	Relationship between quality of physical environment, social problems; times of rapid social change, effect on the family
	25200-05			MacQuarrie Trusty	MHA/NWT	Relationship between respiratory infections in children and neglect
168	26126-27	July 22		Brody	COPE/ITC	Spree drinking sessions; fights, accidents, child neglect
	26150-52			Brody		Comment on Hobart's evidence, relationship between child neglect and incidence of respiratory illness
	26196-98			Brody		Child neglect, relationship with supply of food
C-71	8045	Aug 10	RF	T. McDermott	Citizen	Cannot cope with white man's exploitation
C-74	8297	Aug 13	RI	J. Tailbone	Citizen	Natives, result of pipeline employment

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171	26601-605A	Aug. 17	YK	Dixon	MVPI	Shortage of day care; family break up
172	26731-36	Aug. 18		Dixon		Alaska, child abuse, neglect; children under 12 being left along whilst parents work; need for more day care centres
181	28225-26	Sept 8		McRae	MVPI	Thompson, programs set up at work to deal alcohol abuse, marriage breakdown, adjustment difficulties etc for natives
182	28245	Sept 9		Forth	MHA/NWT	Increase in family breakdown because of overcrowding, alcoholism, parental work patterns caused by pipeline development
	28326			McCombs	MHA/NWT	Pressures of wage employment on traditional family structures causing family break-up
184	28433-34	Sept 14		Atcheson	COPE/ITC	Native male has lost traditional roles, self-respect and control; alcohol related problems
	28457-58			Kehoe	COPE/ITC	Represent breakdown in traditional way of maintaining social order
	28472-74			Atcheson		Problems with children

PIPELINE - BACKFILL

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XIX	2196 2201 2203	Mar.17	YK	Williams	CAGPL	Sans Sault test site; restoration of backfill; wood chip over spoil/backfill; flooding of backfill
XX	2317-18 2326-32	Mar.18		Slusarchuk	CAGPL	Slide presentation; Calgary test facility; varying depths of overburden, applying various loads/pressures; varying backfill materials
	2342-43			Morgenstern	CAGPL	Increasing overburden pressure to control frost heave
XXI	2498	Mar.19		Morgenstern		Material used in seismic risk zones
XXII	2655-57	Mar.20		Hollingshead	CAGPL	Excavation, gravel backfill, disposal on floodplain
XXIII	2713-14	Mar.21		Slusarchuk Clark	CAGPL	Surcharging, frost susceptible soils
XXIV	2822-27 2844-49	Apr.7		Clark Clark		Non-erodable backfill - drainage, freezing Imported, selected material
XXVI	3151	Apr.9		Slusarchuk		Remedial measures, replacement of frost-susceptible soil
XXVII	3324-34 3433	Apr.10		Williams McRoberts	CAGPL	Test sites, Mountain River, native/selected Load on the pipe, native backfill
XXVIII	3552	Apr.11		Scott	MVPI	In ditches
XXIX	3577 3631-33 3676	Apr.14		Hardy McRoberts Reid	CAGPL	Overburden in muskeg - buoyancy restraint Flooding of backfill - pipe surrounded by ice Warm water testing warms backfill
XXXI	3952	Apr.16		Reid		Installation, compacted
XXXII	4102	Apr.18		Reid		Frozen backfill - damage to protective coating
XXXIII	4300-01 4358-59	Apr. 21		Dau Dau	CAGPL	Minimal amount frozen backfill during ditching Select and native borrow
XXXIV	4471	Apr. 22		Dau		Ditches, caribou migration
XXXIX	5072-73 5124-36	May 15		Williams Harlan		From spoil mound, or select fill by barge Select or native crucial to drainage, settlement
46	6126	June 2		Adam	EPB	Fill must be replaced for revegetation to take place
61A	8715-18 8723-27	Sept. 15	YK	Bauer Walker	Foothills Foothills	Backfill materials; borrow; frost heave and normal soils; excavated materials Materials; borrow materials; padding; pipeline buoyancy
62	8848-54	Sept. 16		Mirosh	Foothills	Frost heave, soil settlement problem; erosion control and soil stabilization measures
64	9430	Sept.18		Mirosh		Composition of backfill in streams to be determined by geothermal model
65	9543-46 9607-12	Sept.19		Hwang Bauer	Foothills	Problems of thaw settlement Backfilling of ditch in one day
66	9687 9757-63	Sept.22		Bauer Kosten	Foothills	Gravel requirements for backfill Bedding the ditch; selective backfill if blasting occurs

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66	9773-76	Sept.22	YK	Mirosh	Foothills	Amount required for buoyancy control; aggregate estimates	
67	9956-59	Sept.23		Bauer	Foothills	Disposal of fill used in slope stabilization	
69	10480-81	Sept.25		Owen	MVPI	Replacement of ice rich material with till, compaction of till; depressions; filling of the subsidence trench	
73	10934-62	Oct.16		Frost Heave Panel	CAGPL	Bedding of pipeline ditch; materials and depth of ditch bedding; berm heights; differential frost heave; backfill materials and frost heave	
74	11004	Oct.17		Williams	CAGPL	Backfill slurry; transportation	
75	11088	Oct.20		Weeden	CARC	Disturbance to active layer caused by backfilling	
79	11727-28	Nov. 3		Dabbs	CAGPL	Surface material to be replaced over spoil mound	
80	11809-10	Nov. 4		Clark	CAGPL	Effectiveness of granular backfill as conductor of active layer of flow	
83	12395-96	Nov.7		Scott Williams	MVPI CAGPL	Select backfill sources at Thunder River	
	12512-14			Scott Williams		Disposal of excess spoil on right-of-way, replaced by select backfill	
84	12525	Nov.8		Environmental Panel	CAGPL	Spoil material replaced by select backfill at river crossings	
	12537			Williams		Backfill on top of insulated culverts, North Slope rivers	
86	12894	Nov.13		Bouckhout	Foothills	Requirements, borrow material	
	12944			Vaartnou	Foothills	Mixing vegetative material with backfill, revegetation	
87	13170-80	Nov.14		Bouckhout		Foothills borrow requirements	
90	13698-99	Nov.19		Dabbs		Select backfill to prevent settlement, ponding, over pipe	
126	19241-44	Feb.16	IN	Snow	COPE/ITC	Timing of backfilling re methanol testing	
131	19954-63	Mar.17	YK	Williams	CAGPL	Backfilling trenches at Cross-Delta river crossings	
	19986-91			Williams		Shallow Bay, time required; natural backfilling	
195	30672-75	Oct. 7		Veale Dau	CYI CAGPL	Additional manpower requirement due to blasting	
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XIX	2211-12	Mar.17	YK	Williams	CAGPL	Sans Sault test site; to match topography	
XIXA	2228 - 2230	Mar.17		Clark	CAGPL	River crossings; sag points, overbends; field bend - soil stability analysis	
	2272-73			Clark		Burial ; sag side & overbend configurations	
XX	2395 2398	Mar.18		Clark		Sag bends, lateral migration of river channels	
XXI	2433-34 2463-66	Mar.19		Hollingshead Cooper	CAGPL CAGPL	Slide presentation; sag bends; sufficient protection Slide presentation: location of sag bends; Trail River, interior route	
XXII	2651-52	Mar.20		Hollingshead		Sag point - Willowlake river crossing	
XXIV	2816-17	Apr. 7		Cooper		Sag bend - erosion by flooding	
XXVI	3141-45	Apr.9		Slusarchuk	CAGPL	Limit unacceptable - frost heave	
	3182-86			Slusarchuk		Warping pressures in weak spots, rupture	
XXIX	3572	Apr.14		Hardy	CAGPL	Pipe floats up, use berm to bend back down	
	3577-80 3586-87			McRoberts	CAGPL	Side and sag bends at river crossings Hydrostatic testing for field bends	
	3705			Purcell	CAGPL	Wrinkles, straining of metal - tests	
XXX	3720-28	Apr.15		Price	CAGPL	Compressive strain, temperature differential, gas pressure, loss of support, sag bends, over bends	
XXXI	3889	Apr.16		Purcell		Mechanical bends/bends after pipeline operation	
XXXII	4044-47	Apr.18		Purcell		Effect of arrestor bands, wrinkling	
	4077-87			Price		Design - curvature	
XXXIII	4339	Apr. 21		Dau	CAGPL	Cold stretch method	
	4343-45			Dau		Machine for 36" pipe	

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61-A	8715-18	Sept. 15	YK	Bauer	Foothills	Ditch bottom contour; pipe configuration, ditch design and depth, support, vertical, longitudinal and lateral movements, bedding, side bends; over bends; frost heave
	8731-55			Glockner	Foothills	Bending stresses due to frost heaving; longitudinal stresses; settlement stresses; vertical and horizontal bends; overburden; buoyancy
62	8859-68	Sept. 16		Bauer Mirosh	Foothills	Prevention of ditch filling up with snow during winter construction; weld pipe, dig trench and suit the bottom of the trench to the pipe; correct ditching versus correcting bent pipe; pipe design; padding and bedding; borrow materials
65	9607	Sept. 19		Bauer		Preheating; grade
66	9717	Sept. 22		Kosten	Foothills	Operation cannot be done properly without daylight
	9752-55			Kosten		Preheating in winter pipeline construction; cold bending in field;
	9781-84			Kosten		Sequence of welding, bending & ditching
67	9971-73	Sept. 23		Mirosh Kosten		Use of bending machines with internal mandrels; deposition of oil & residues
70	10525	Sept. 26		Owen	MVPI	Sequence of pipe construction
72	10803	Oct. 15		Adam	EPB	Inter-action soil and pipe; frost heave; degree of bend angles
	10934-962	Oct. 16		Frost Heave Panel	CAGPL	Curvature of pipes; frost heave effect; pipe lengths; bedding and ditch materials; differential heave
75	11088	Oct. 20		Weeden	CARC	Disturbance to active layer caused by backfilling
132	20050-53	Mar. 18		Hollingshead	CAGPL	Bending back from bank, west bank of Shallow Bay, to allow for bank erosion
<u>PIPELINE - BERM</u>						
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XIXA	2284-89	Mar. 17	YK	Clark	CAGPL	Talus slopes, stabilizing berms, construction difficulties
XX	2390-92	Mar. 18		Clark Hollingshead	CAGPL	PAAG concern: berms at river crossings, channel constriction increased flow velocity, impact on fish
XXI	2421-22 2425-26	Mar. 19		Hollingshead		Great Bear River crossing, stabilization berm
	2481-84			Clark		Spoil mound over pipe; breaks, erosion-resistant material
XXII	2585-2616	Mar. 20		Slusarchuk	CAGPL	Floating pipe, surcharge, range of heave, frost bulb, drainage, berm in non-permafrost
	2620-22			Slusarchuk		Berm, frost, drainage in permafrost
XXIII	2676-78 2683-90	Mar. 21		Hollingshead Slusarchuk Clark		Borrow material for work berm on river crossing Surcharge of ground surface, environmental impact of borrow material removed, impact of berm-drainage
XXIV	2776	Apr. 7		Clark		Elevated pipe support
	2789-99			Lane	COPE/ITC	Surcharging, frost heave
	2809-11			Hollingshead		Temporary work berm - sediment
	2820			Clark		Dike to direct surface water across berm
	2852-60			Clark		Revegetation - wind erosion, down slope shadow
XXVI	3168-71	Apr. 9		Slusarchuk		Integrity of pipe, frost heave - elimination
	3195-3200			Slusarchuk		Cut off pressures re: overburden
	3223-24			Slusarchuk		Frost heave remedy
	3263-67			Slusarchuk		Berm breaks, water drainage
XXVIII	3465	Apr. 11		Clark		Overburden pressure
XXIX	3572-73	Apr. 14		Clark Hardy	CAGPL	Berm above floating pipe
	3576-77			Hardy		Overburden to restrain buoyancy in muskeg
	3579-80			McRoberts	CAGPL	Overburden to restrain buoyancy in muskeg
	3584-88			Clark		Surcharging in design
XXXIII	4358-59	Apr. 21		Dau	CAGPL	Ditch spoil over center line
	4362			Dau		Welding on berm before lowering pipe into river

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XXVIII	4865-67 4903	May 14	YK	Dau	CAGPL	Techniques for river crossings
				Williams	CAGPL	Great Bear River crossing, culverts
42	5408-10 5414 5475-79	May 21		Fielder	CAGPL	U.S.S.R., berm failure
				Bayly	COPE/ITC	Thickness, A.C.V. movement
				Scott Hurd	MVPI CAGPL	Rebuilding, scheduling
C-21	2146	Aug. 9	NW	R. Laycock	Citizen	Caribou crossing of pipeline
61-A	8732-55	Sept. 15	YK	Glockner	Foothills	Overburden pressure; frost heave pressure; soil/pipe interface; stress strain curve
62	8782	Sept. 16		Walker	Foothills	Depth of cover; river crossing designs
64	9282	Sept. 18		Yip	Foothills	Role of overburden pressure in minimizing frost heave
	9409			Claridge	Foothills	Alyeska experience of revegetation of soil mound containing frozen material
	9430			Mirosh	Foothills	Composition in rivers & streams to be determined by geothermal model re permeability
65	9547	Sept. 19		Davison	Foothills	Berm construction considered as remedy for thaw settlement
66	9783-84	Sept. 22		Mirosh Kosten	Foothills	Frozen material in spoil mound; pulverization, revegetation
67	10026	Sept. 23		Bauer	Foothills	Mound over ditch to prevent frost penetration not applicable technique in north
69	10354-60 10371-72 10480-82	Sept. 25		Williams	MVPI	Shut-off pressures re river crossings and berm height
				Williams		Thickness of overburden; shut-off pressure
				Owen	MVPI	Height of berm; pipeline buoyancy; construction over a floated pipe section
	10498-99			Owen	MVPI	Omissions by construction crew re: berm over pipe; B.C. pipeline between Beaver River and Fort Nelson
70	10528	Sept. 26		Owen		Exposure of berm re: Pointed Mountain Line at Fisherman's lake
73	10849-50 108901-62	Oct. 16		Slusarchuk	CAGPL	Application of berm to prevent water coming to the edge of frost front; shut-off pressure
				Frost Heave Panel	CAGPL	Berm size; frost heave; tests; overburden pressure to reduce rate of heave of pipe; prediction of heave rates
79	11727-38 11743	Nov. 3		Dabbs	CAGPL	Surface material to be replaced over spoil mound
				Minning	CAGPL	Use of berm at borrow sites
80	11821 11924 12061-77	Nov. 4		Clark	CAGPL	Cost of placing pipe on piles to avoid frost heave and thaw settlement as opposed to burial method
				Clark		Cost of berm compared to cost of placement on piles to counteract frost heave
				Clark		Water and snow in granular material placed on berm causing drainage and erosion problems
81	11981 12022-25	Nov. 5		Clark		Surcharge not necessary where ground water extensive
				Clark Minning		Size of berm as determinant of borrow requirements
82	12138-55 12179-88 12274-85 12308-15	Nov. 6		Dabbs		Nature and size of material replaced in mound after wheel ditching; problems in revegetation
				Harlan	CAGPL	Height of the active permafrost layer; use of mound breaks
				Clark	CAGPL	Reshaping of berm to counteract frost heave - environmental impact
				Dabbs	CAGPL	Photographs of Prudhoe Bay test site - cracks in berm; half-buried mode; effects on vegetation
83	12340-42	Nov. 7		Dabbs		Use of dead tundra mat as insulation to reduce thaw of berm backfill before pipe is active
86	12926-28	Nov. 13		Vaartnou	Foothills	Preparation of surface for seeding

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88-A	13371-75	Nov.17	YK	Dabbs	CAGPL	Revegetation of berm
90	13738-63	Nov.19		McCart	CAGPL	River crossing berms, Great Bear River, Swimming Point, impact on fish
101	15481-84	Dec. 11		Zoltai	CARC	Loading berm in fenland to counteract palsa formation; berm breaks to aid drainage of fenlands
	15518			Zoltai		Berm breaks to aid drainage of fens
102	15580-81	Dec. 12		Zoltai		Channelling of water on slope by berm breaks, effects on revegetation
104	15871	Dec. 16		Stein	CARC	Further study recommendation
110	16887-91	Jan. 15		Berger Lent Carter	CARC CAGPL	Barrier to caribou; used to escape insects; surcharging the berm, re: frost heave
132	20104-05	Mar. 18		Clark		Use of berm across Delta unlikely; if needed, will be granular material
C-40	3838	Feb.23	AK	Archie Rowe	Citizen CAGPL	Chance of mud piles over top of pipeline

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XV	1667	Mar.11	YK	Dau	CAGPL	Route location selection
XIX	2184-86	Mar.17		Clark	CAGPL	River crossings, active flood plains; restraining techniques burial, controlled flooding
	2201-03					Sans Sault test site; gas temperature; backfill thaw, wood chip insulation; hold down arrangements; ditch flooding
XIXA	2232-34	Mar.17		Clark		Concrete coating; bolt on weights
	2271-77			Clark		Burial in permafrost; pre start up; peat plateaus; river crossings & flood plains; anchoring, concrete coating
XXI	2437-38	Mar.19		Hollingshead	CAGPL	Slide presentation; 3 gravity restraining measures: concrete coating, bolt-on weights, saddle weights
	2513-14			Hollingshead		Relative buoyancy of a 48" vs. 36" pipe
XXIV	2826-27	Apr. 7		Clark		Control - freezing of flooded ditch
	2860			Clark		Water freezes - restrains pipe
XXV	2956-57	Apr. 8		Clark		Routing - terrain quality of new location
XXVII	3323-24	Apr.10		Williams	CAGPL	Testing, spring flooding, heavy summer rain
XXIX	3568-72	Apr.14		Hardy Clark	CAGPL	Tendency of pipeline to float in muskeg
	3573-86			Williams		Alignment sheets, potential buoyant areas
	3589-90			Clark		Remedial measures, retrenching
	3633			McRoberts	CAGPL	Control measures: flooded backfill
XXX	3724	Apr.15		Price	CAGPL	Concrete weights, anchors
XXXI	3894-95	Apr.16		Purcell	CAGPL	Thicker pipe, less flotation problems
XXXIII	4330-31	Apr. 21		Dau		Concrete weights
	4358			Dau		Concrete coating, pipe anchors
XXXV	4619	Apr. 23		Williams		Concrete weights
XXXVII	4816	May 13		O'Rourke	CAGPL	Revegetation, tundramat, seeding
XXXVIII	4848-51	May 14		Lucas	CARC	Final location of areas requiring control; weights
41	5283	May 20		Fielder	CAGPL	El Paso application, concrete coating

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42	5482-86	May 21	YK	Scott Hurd	MVPI CAGPL	Control measures, re-setting prior to start up
47	6158-60	June 3		Wilimovsky	EPB	Building of concrete weights on site - siltation in streams
61A	8703	Sept. 15		Mirosh	Foothills	Restraining saddles with frost anchors may be required; pipe support structures
	8721-27			Walker	Foothills	Ditching, pipe bending, backfill, soil materials; borrow materials; potential for frost heave and frost bulb; weight to provide a selected negative buoyancy; river crossings
	8732-55			Glockner	Foothills	Frost heave pressure; soil/pipe interface; overburden; longitudinal movement; loading materials; material properties; saddle weights
62	8772	Sept. 16		Mirosh		Use of frost anchors
	8775-79			Bauer Walker	Foothills	Weights - size and number; costs; future studies
64	9281-82	Sept. 18		Yip	Foothills	Tests on ground temperatures will assist solution of buoyancy problems
	9356a-60			Davison	Foothills	Work incomplete on designation of problem areas
65	9612-13	Sept. 19		Bauer		Concrete weights
66	9772-76	Sept. 22		Bauer		Percentage of line needing controls; weighting, backfill techniques; aggregate requirements
67	9966	Sept. 23		Kosten	Foothills	Concrete weight fabrication could be done in summer
69	10388-90	Sept. 25		Owen	MVPI	Saddle weights placed on the Pointed Mt. Pipeline; concrete saddle weights; anchors attempted
70	10512-13	Sept. 26		Owen		Use and location of borrow materials to cover pipeline; Pointed Mountain Line
	10515			Owen		Borrow materials; to recover Pointed Mt. Line
	10525			Owen		Westcoast rejection of concrete weights re Pointed Mountain
	10528			Owen		Exposure on Fisherman Lake; attempt to cover pipe
73	10833	Oct. 16		Clark	CAGPL	Shut-off of coolers; floatation of pipe
80	11808-10	Nov. 4		Clark		Flow of water in the active layer - effect on buoyancy
	11846			Clark		Acceptable scour at a break determined by buoyancy considerations
	11901-03			Williams	CAGPL	Gravel washing to be used for some weights; protective measures
	12065			Williams		Sorting and washing of aggregate quality of weights; ratio of concrete and cement
82	12288-89	Nov. 6		Hemstock	CAGPL	Possibility of line popping up after abandonment due to thawing of frost bulb
83	12396-98	Nov. 7		Scott Williams	MVPI	Concrete weights made at Thunder River site
87	13171	Nov. 14		Bouckhout	Foothills	High-quality borrow material needed for pipe weights
101	15480	Dec. 11		Zoltai	CARC	Concrete weight use in fenlands
130	19761	Mar. 16		Hollingshead	CAGPL	Weighted length of pipe across Delta increased due to flooding
131	19849-50	Mar. 17		Clark		Preventing pipe movement if liquification occurs, Shallow Bay, other Delta crossings

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131	19862-65	Mar.17	YK	Williams	CAGPL	During spring floods, cross-Delta route, prevention methods
	19985-86			Williams		Shallow Bay, concrete coating on pipe for weighting
132	20105-08	Mar.18		Clark Williams	CAGPL	Delta route, concrete weighting, frost will resist buoyancy; ditch flooding, concrete coating
	20148			Williams		Niglintgak supply lateral, weighting requirements
C-40	3837-38	Feb.23	AK	Archie Berger Rowe	Citizen CAGPL	Concrete coating to prevent pipe from floating up, chance of mud piles
197	30989	Oct.13	YK	Bergasse	MVPI	Entrepreneurial opportunity making concrete weights for sinking of pipeline

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XIXA	2230	Mar.17	YK	Clark	CAGPL	Soil conditions, burial depth
	2270-77			Clark		Geotechnical design depth of burial; permafrost; buoyancy; under peat plateaus; river crossings & flood plains
XX	2307	Mar.18		Clark	CAGPL	Depth of burial re frost heave
	2315-41			Slusarchuk		Slide presentation burial depths at Calgary test facility, ditching, backfill; impact of burial depth on frost heave of pipe, growth of frost bulb; ice lenses; application of test results; effects on frost heave
	2343-44			Clark		PAAG Report 8:2, buried pipeline rationale; advantages and disadvantages
	2396					Deeper burial, local river bed scour
XXI	2436-37	Mar.19		Hollingshead	CAGPL	Slide presentation; Willowlake River, burial depths, backfill materials
	2497-98			Morgenstern		Seismic risk areas, minimum depth of burial Walls sloped, backfill material
XXII	2569-72	Mar.20		Slusarchuk	CAGPL	Water table, frost heave, Calgary test facility
	2585-2621			Slusarchuk Clark		Floating pipe, limit of burial, bedrock, Calgary test facilities - berm, frost bulb, chilled gas in frozen & unfrozen ground
	2641			Clark		Frost heave problem under a river
	2651-57			Hollingshead		Depth of burial, Willowlake River crossing, backfill
XXIII	2713-14	Mar.21		Slusarchuk Clark	CAGPL	Surcharing, frost susceptible soil, removal
XXIV	2769-78	Apr.7		Clark	CAGPL	Pile support mode of construction, cost, advantages
	2795-96			Slusarchuk		Frost bulb stress to reduce rate of heave
	2816-19			Cooper		Stream flow analysis, overhead crossings, bridges
XXV	2985-90	Apr.8		Cooper	CAGPL	Melting causing holes, problem of buried crossings
	2998-3011			Cooper		Failure and repair - environmental damage
XXVI	3106-28	Apr.9		Hollingshead	CAGPL	Evidence in chief
	3151			Slusarchuk		Remedial measures, deep burial - frost heave
	3157-58			Slusarchuk		Deep burial solution, final design
	3165-73			Slusarchuk		Deeper burial solution to heave
	3241-44			Slusarchuk		Calgary test site, frost heave, tilted pipeline
XXVII	3314-15	Apr.10		Scott Williams	MVPI CAGPL	Sans Sault test site, buried/elevated test sections
	3320-22			Scott		Slope conditions, inactive buried pipe
	3344			Williams		Depth
	3358-60			Slusarchuk		Clearing, revegetation, permafrost degradation
XXVIII	3427-34	Apr.11		McRoberts	CAGPL	Ice Wedges
	3455			Scott		River crossings, permafrost, ground water seepage
	3466			Clark		Deeper burial, river crossings
	3487-88			Clark		Culvert burial, depth
XXIX	3554	Apr.14		Scott	CAGPL	Slope conditions
	3575			Clark		Technique to restrain buoyancy
	3604-09			Clark		Shallow Bay crossing - depth of freezing
XXX	3718	Apr.15		Price	CAGPL	Compression, wrinkling
	3761			Purcell		Buried/above ground, selection, vulnerability
XXXI	3992-94	Apr.16		Anthony	CARC	Overhead/buried pipeline
XXXII	4043-46	Apr.18		Purcell	CAGPL	Arrestor bands
	4059-64			Purcell		Above ground pipe - bulldozer damage
	4092-96			Holmberg		Test crack arrestors in frozen ground
XXXIII	4340	Apr. 21		Dau	CAGPL	Average depth of pipe 4 feet

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40	5193-94	May 16	YK	Fielder	CAGPL	Gas pipelines, U.S.S.R.
41	5280-81	May 20		Fielder		U.S.S.R., river crossings, buried
	5337			Fielder		U.S.S.R., combination of above-ground and buried
42	5422	May 21		Scott	MVPI	U.S.S.R. - above-ground pipeline
49	6582-84	June 5		Horte	CAGPL	Original concept prior to test facilities
56	7860-62	Aug. 18		Horte		Burial at river crossings provides greater pipe protection against vandalism
58	8183-84	Aug. 20		Blair	Foothills	Foothills use; engineering considerations, design and experience; conclusions
53	7245	Aug. 13	WH	Sprecker	CYI	Heaving of pipe at Tonsina River Crossing
54	7569-72	Aug. 14		Parker	CARC	Stable permafrost use of a buried pipe; unstable conditions use of an elevated pipe; testing and research in Alaska
C-18	1822-26	Aug. 5	FGH	Rowe	CAGPL	Method of burial at Hare Indian River Crossing
61-A	8703	Sept.15	YK	Mirosh	Foothills	Deeper burial if greater insulation is needed; burial materials
62	8810-11	Sept.16		Mirosh		Development along the corridor would occur close to the pipe; reckless digging; third party vandalism
	8866-68			Bauer Mirosh	Foothills	Padding, bedding used which may alter the contours of the ditch; borrow requirements
64	9282	Sept.18		Yip	Foothills	Role of overburden pressure in minimizing heave
	9429-30			Spafford	Foothills	Depth of burial to prevent icing
65	9465-88	Sept.19		Mirosh		Deeper burial than CAGPL at river crossings; problems of scour, icings, frost bulb formations
	9527			Claridge	Foothills	Deeper burial or route relocation as remedy for frost heave problems & determining of southern point of chilling
	9570			Claridge	Foothills	Integrity of pipeline & frost heave problem - deeper burial as remedy
67	9979-80	Sept.23		Mirosh	Foothills	Scheduling of cleanup & restoration after burial
68	10200	Sept.24		Templeton	EPB	Oil pipeline likely elevated
69	10354-60	Sept.25		Williams	MVPI	Depth of burial re: shut-off pressures; feasibility of deep pipe burial
	10370-72			Williams		Depth of buried pipe at river crossings
70	10515	Sept.26		Owen	MVPI	Borrow materials; Pointed Mountain Line
	10528			Owen		Need to bury pipe not cover it re: exposed pipe on Fisherman Lake
	10584			Lewis	MVPI	Deep buried mode required across the entire bank full width of an active channel
73	10826	Oct.16		Clark	CAGPL	Buried chilled gas pipeline; frost heave; Dr. Williams' testimony
	18901-62			Frost Heave Panel	CAGPL	Depth of burial; overburden weight; prediction of rates of frost heave; research and tests
75	11073	Oct. 20		Parker	CARC	Effect of a pipeline on caribou migration patterns, buried and above ground pipelines
	11097			Parker		Buried gas pipeline; need for almost instant refrigeration prior to commencement of first thaw
76	11154-62	Oct.21		Parker Weeden	CARC	Soil conditions and information, research on the Alyeska corridor
	11181-82			Parker Weeden		Seeking thaw stable soils, environmental safety
	11186-87			Parker		Soil conditions; hot oil pipeline; burial safety
	11207-10			Parker Weeden		Alyeska pipeline, elevated pipeline; satisfactory burial method; insulated pipe
	11225-51			Parker Weeden	CARC CARC	Petroleum spills, effect on frost bulb
77	11395-97	Oct.22		Rutter	CARC	Possibility of subsidence and erosion during construction phases
78	11520	Oct.23		Roed	CARC	Laying of pipe on the bottom of Great Bear, Great Slave Lakes

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80	11819	Nov. 4	YK	Clark	CAGPL	Need to place line on piles in cases of excessive thaw settlement
	11870-72			Hemstock	CAGPL	Concept not referred to environmentalists for advice in cross-Delta route change
	11923-24			Clark		Cost of placing line on piles below ground
81	11962	Nov. 5		Anthony	CARC	Filing of material relied upon by Dr. Roed re pipelaying and deep water systems
89	13482	Nov.18		Jakimchuk	CAGPL	Effect, buried pipe in winter, North Slope, on caribou
94	14203	Dec.2		Marshall	CAGPL	Alignment from the Shell plant to Taglu Plant and then south to be a buried chilled line
98	14956	Dec. 8		Marshall		Essential feature of pipeline re: caribou impact
105	16149-52	Dec. 17		Lent	CARC	Movement of caribou along and over pipeline re: ramps
106	16164-68	Dec. 18		Lent		False assurances re: burial of chilled pipeline
111	16935	Jan. 16		Bergerud	CARC	Caribou crossing buried pipe
125	19021-23	Feb.14	IN	Lewis	COPE/ITC	Coastal burial depth required re avoidance of ice scouring
132	20060	Mar. 18	YK	Cooper	CAGPL	Bottom of Shallow Bay, burial depth
	20066-67			Cooper		Bottom of Shallow Bay, burial depth to allow for holes in bottom of bay
132	20075	Mar. 18	YK	Clark	CAGPL	Initial burial depth must provide enough overburden pressure to restrict first heave, Delta channel crossings
	20096	Mar. 18		Hollingshead	CAGPL	To allow for erosion of banks of Delta channel crossings
C-44	4327-30	Mar.9	TUK	V. Steen Hnatiuk Horsfield	Citizen GPC-D-G GPC-D-I	Studies on burying pipeline, dredgeing, shut-off system if pressure is lost due to pipeline break
C-47	4629-30	Mar.13	ARR	Beer	Foothills	Completely buried except in compressor stations
C-71	8003-04	Aug 10	RE	Workman Burrell	CAGPL Foothills	Depth of pipe burial
194	30424-27	Oct.6	YK	Lipsett	MVPI	Oil pipeline, relationship between terrain type and pipeline burial or elevation

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XV	1659-60	Mar.11	YK	Dau	CAGPL	Chilling units at compressor stations
XIX	2196-97 2200-04 2216-17	Mar.17		Williams	CAGPL	Sans Sault test facility, verification of chilled gas concept
XX	2300-12 2312-41	Mar.18		Clark Slusarchuk	CAGPL CAGPL	Problems re: frost heave; water migration; thermal gradients Slide presentation re: frost heave; CAGPL study, Calgary test facility; apparatus for measuring soil temperature; growth of frost bulb; effects of varying overburden pressures on growth of frost bulb; application of test results: prediction re: frost heave
	2393-94			Clark		Production of new icings; culverts
XXI	2472-76	Mar.19		Clark		Heat convection, conduction: chilled pipe, ground water; frost bulb
XXII	2599-2605	Mar.20		Berger		Chilled gas through permafrost & unfrozen ground
	2657-58			Clark		Unchilled pipeline in discontinuous permafrost
	2667-69			Hardy	CAGPL	Geotechnical problems of chilled line
XXIII	2694	Mar.21		Clark		Chilled line "environmentally & geotechnically sound"
	2735-38			Clark		Chilled & non-chilled pipe in discontinuous permafrost
XXIV-A	2887-97	Apr.7		Clark		No precedent, problems in permafrost and non-permafrost
XXVI	3214-21	Apr.9		Clark		Southern termination of chilling, integrity of pipe, environmental factors, economic advantages
	3223			Clark		Final decision on southern termination
	3273-75			Clark		Continuous permafrost, frost heave, driving gradients, Gibbs free energy
XXVII	3359-60	Apr.10		Scott	MVPI	Clearing, permafrost degradation
	3367			Morgenstern	CAGPL	Ice content of soil, degradation, Alberta border

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XXVII	3401	Apr. 10	YK	Slusarchuk	CAGPL	Operating test section, Sans Sault test site
	3429-31			McRoberts	CAGPL	Ice wedges, lack of temperature change
XXVIII	3458	Apr. 11		Scott	MVPI	New icings, minor river crossings
	3473-75			Scott		Non-permafrost regions, local frost zone
	3478-80			Clark	CAGPL	Open system pingoes
	3492-93			Clark		Culverts, pre-start up phase, impact on fish
	3555			Morgenstern	CAGPL	Slope stability
XXIX	3581-83	Apr. 14		McRoberts		As affects movement of pipe
	3666-66A			Purcell	CAGPL	Gas chilling not required for 36" or smaller pipe
XXX	3729	Apr. 15		Purcell		Preservation of Travailant Lake
	3732-33			Koskimaki	CAGPL	Compressor stations, chilling building, refrigeration
	3762			Purcell		Above ground pipeline/buried, number of chilling stations
XXXI	3942	Apr. 16		Koskimaki		Travailant Lake, noise levels
XXXII	4035-39	Apr. 18		Purcell		Fuel energy for transportation of chilled and unchilled
	4102-03			Purcell		Geotechnical decision
41	5342	May 20		Berger		Do not have to chill above-ground pipeline, U.S.S.R.
42	5426-30	May 21		Fielder	CAGPL	U.S.S.R., no sub-freezing gas pipelines
45	5909-11	May 24		Bayly	COPE/ITC	Expensive process, economics of transportation of gas; secure line in permafrost
46	6110	June 2		Adam	EPB	Eliminate drainage disruption
	6131-32			Bliss	EPB	Impact of colder soils on vegetation
47	6299-6313	June 3		Adam		Techniques new and untried
49	6583-84	June 5		Horte	CAGPL	Original concept prior to test facilities
58	8183-84	Aug. 20		Blair	Foothills	Foothills use; engineering considerations, design and experience; conclusions

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59	8399-8401	Aug. 21	YK	Mirosh	Foothills	Foothills design, temperature at compressor station 14
54	7472-73	Aug. 14	WH	Weeden	CARC	Temperature of permafrost is variable; depth of burial of pipe, temperature of gas, temperature of adjacent permafrost effects on active layer.
	7500-05			Weeden		Off-shore pipeline; temperature variations in soil and water temperatures; bank degradation; frost heave; pipe integrity
	7512-15			Weeden		Fairbanks route, areas of intermitently frozen and unfrozen ground; studies on soil and terrain conditions completed for Alyeska will apply to Fairbanks route; permafrost degradation
C-22	2245	Aug. 11		Berger		Design concept
61	8693-99	Sept. 15	YK	Scott Panel 4	MVPI Foothills	Need for a chiller on community supply laterals; need for chilling south of Fort Simpson; small pipe size
63	8978	Sept. 17		Lazerte	Foothills	CAGPL- Foothills differences; final design stage
	8985-89			Lazerte		Chilled pipe, temperature; Taglu and Parsons Lake plants; heated compression; propane refrigeration
	9021-22			Mirosh	Foothills	Foothills proposal to chill gas the year before whole compressor station came into operation (Arctic gas would chill after operation)
	9049-50			Mirosh		Heat for compressor buildings to come from the exhaust from the electrical generator; heat from chiller
64	9432-38	Sept. 18		Claridge	Foothills	Decision re last point of chilling
65	9525-41	Sept. 19		Hwang	Foothills	Southern limit of chilling; difference between CAGPL & Foothills
	9586-88			Claridge	Foothills	Temperature of community laterals; problems foreseen
68	10050-52	Sept. 24		Hushion	Foothills	Line operated as separate unit from AGTL
	10058-61			Hushion		Installation of chilling facilities at compressors; uniqueness of concept of chilled gas

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69	10260-68 10292-93	Sept. 25	YK	Williams Williams	MVPI	Frost heave; river crossings and chilled pipe; Continuous and non-continuous permafrost areas
70	10508	Sept. 26		Owen		Pointed Mountain a hot gas pipeline
72	10732-35 10742-46 10777-812	Oct. 15		Berger Berger Adam		Comparing Dr. Clark and Dr. Williams' testimonies re: frost heave, need for a chilled pipe through permafrost Frost heave in chilled pipeline in unfrozen ground; river crossings; frozen soils Impact of frost heave; shut-off pressure; continuous and discontinuous permafrost areas
73	10826-970	Oct. 16		Frost Heave Panel	CAGPL	Effects of frost heave; frost bulbs on a chilled gas pipeline; effects of a chilled pipeline on discontinuous permafrost; Dr. Williams' testimony; theory and mechanics of frost heave; thaw settlement
75	11097	Oct. 20		Parker	CARC	Need for refrigerating pipe to prevent permafrost degradation, subsidence and general thermokarst along the line
76	11154-62 11186-87 11317-34	Oct. 21		Parker Weeden Parker Hughes Scott	CARC CARC CARC MVPI	Soil information, studies and research, Alyeska corridor Chilled pipe and soil conditions Termination point of chilling
77	11395-97 11437-40	Oct. 22		Rutter Rutter	CARC CARC	Possibility of subsidence and erosion during construction; areas of continuous and discontinuous permafrost Soil and terrain conditions; speckled bog; construction difficulties, equipment losses; ice thickness
78	11614-74	Oct. 23		Minning	CAGPL	Potential for frost heave, areas of continuous and discontinuous permafrost; land requirements for construction, right-of-way; pipeline design re: reading of phase 2 evidence
79	11737	Nov. 3		Harlan	CAGPL	Potential of icing along the Arctic Coast
80	11816 11923-24 11947-48	Nov. 4		Harlan Clark Dabbs	CAGPL CAGPL CAGPL	CAGPL reconsidering last point of chilling gas Pipeline on piles below ground would not be chilled Chilling and revegetation as restoratives to permafrost balance
81	11979-82	Nov. 5		Harlan		Impact of chilled line on ground water
82	12286-89 12306-10	Nov. 6		Hemstock Dabbs	CAGPL	Ramifications of cessation of chilling and abandonment of line Difference between testing in cold ground and chilled line in revegetating
94	14203	Dec. 2		Marshall	CAGPL	Alignment from the Shell plant to the Taglu Plant and then south to be a buried, chilled line
98	14956	Dec. 8		Jakimchuk	CAGPL	Impact differs from highway because of essential features
101	15474-84 15500-05 15533-36	Dec. 11		Zoltai Zoltai Zoltai	CARC CARC	Groundwater icings formation, further reasearch; Battle report; loading frost bulb in fenland Ebbutt Hills, frost heave susceptibility in Hills, west of Hills; ice lensing in fens, palae formation Unchilled pipe through unfrozen fens, will affect only ice lenses; chilled line will interfere with groundwater movement
106	16164-68	Dec. 18		Lent	CARC	False assurance re: burial of chilled pipeline
107	16312-14 16347-50	Jan. 12		Templeton Adam	EPB EPB	Chilled pipeline in the Ebbutt Hills area, Delta-Shallow Bay area; permafrost areas Chilling should stop somewhere south of Willow-lake River; testimonies of Dr. Williams, O. Hughes, drainage problems; culverts; permafrost
C-25	2477	Sept. 8	FS	Ellwood	Foothills	Site definition along route
132	20038-39 20074-75	Mar. 18	YK	Purcell Clark	CAGPL CAGPL	Pipe would be chilled even if no permafrost Alternate use of twin crossing pipes to restrict size of frost bulb, Delta channel crossings

PIPELINE - CHILLING (continued)

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
C-40	3839	Feb.23	AK	Father Adam Rowe Berger	Citizen CAGPL	Expansion joints not necessary if gas is chilled
201	31780 31804-05 31842-45	Nov.16	YK	Marshall Gibbs Templeton	CAGPL Foothills EPB	Last point of cold flow Will cease to chill as far north as possible Termination point

PIPELINE - CORROSION PREVENTION AND CONTROL

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
XXIX	3647 3670-71 3696	Apr.14	YK	Purcell	CAGPL	Means of Control Cathodic protection for pipe in permafrost Post construction defects
XXX	3737-39 3760	Apr.15		Purcell Purcell		Testing, coating, cathodic protection, gas composition Design, high unit reliabilities, coating, cathodic protection
XXXI	3903-11	Apr.16		Reid	CAGPL	Laboratory testing, conventional external coating, for corrosion prevention
XXXII	4056-59 4096-4102 4109-11 4132-33	Apr.18		Reid Reid Holmberg Reid	CAGPL	Protection against atmospheric corrosion Cathodic protection technique Economic consequences and possible erosion Non-soluble coating - no contamination
XXXIII	4345 4355-56 4364	Apr. 21		Williams Dau Dau	CAGPL CAGPL	Slide - coating machining Coating and wrapping Precoating of pipe joints
XXXV	4579-82	Apr. 23		Dau		Precoating - thickness and weight
40	5247-48	May 16		Hurd	CAGPL	Less risk of corrosion in permafrost soils
41	5317	May 20		Hurd		Cause of pipeline breaks
61-A	8708	Sept.15		Mirosh	Foothills	Pipes to be insulated to prevent hydrate formation; prevention against thermal expansion and contraction causing excessive stresses, paint to restrict atmospheric corrosion to be used
63	9135 9142	Sept.17		Shelton Shelton	Foothills	Tables showing numbers of ruptures and leaks caused by corrosion Corrosion at the location of crack arrestors
63	9147-50	Sept.17		Shelton	Foothills	Causes of corrosion, remedies, cathodic protection; techniques to minimize corrosive effects of water in gas
64	9213-26 9235-40 9242-51	Sept.18		Hushion Hushion Hushion	Foothills	Debate about crack arrestors; corrosion at site of crack arrestors Atmospheric corrosion of stockpiled pipe; protection of pipe in coastal areas Use of crack arrestors; cathodic protection-current involved
65	9608	Sept.19		Bauer	Foothills	Pipeline coating
66	9717	Sept.22		Kosten	Foothills	Operation cannot be done properly without daylight
85	12677-79	Nov.12		Williams Hemstock	CAGPL CAGPL	Environmental effects of internal coating
104	15954	Dec. 16		Marshall	CAGPL	Epoxy coating on inside of pipe

PIPELINE - DESIGN

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
XV	1737-38	Mar.11	YK	Dau	CAGPL	Final design phase
XVIII	2049-52 2072-74	Mar.14		Scott Scott Watson	MVPI CAGPL	Final design Terrain difficulties, solutions
XIXA	2245-50	Mar.17		Clark	CAGPL	Site-specific Test drilling, final design stage; design change manual; geotechnical design control; on-site monitoring

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XXIA	2255-59	Mar. 17	YK	Berger		Ice jam data; effect on design re: crossing Mackenzie River
	2261-63			Clark	CAGPL	Pipeline stability, safety; pre-start up; post start-up
	2293-97			Scott Genest	MVPI CAGPL	Importance of design panel; onus on CAGPL
XXI	2478-80	Mar. 19		Clark		Importance of drainage & erosion control measures in design; data design manual; r-o-w design philosophy
XXII	2657-67	Mar. 20		Hardy Clark	CAGPL	Overhead river crossings - bridge structures, controversial economic advantage but generally not acceptable
XXIII	2705-07	Mar. 21		Clark		Interdisciplinary basis
XXIV	2769-78	Apr. 7		Clark		File support mode of construction, minimum cost
	2817		Cooper	CAGPL	Final design - stream analysis at river crossings	
	2871-75		Clark		Design manual - change in foundations	
XXIV-A	2901-47			Panel 2		Calculated risk - twinning river crossings, (2901-09), performance criteria (10-11), margin of safety (12-15), conservative design (15-19), engineering risks (19-24), Casagrande approach (24-32), design solutions (32-40), Berger (41-47)
XXV	2990	Apr. 8		Cooper		Do not have final design
	3045-47		Hollingshead	CAGPL	Design solution for repair	
	3070-83		Cooper		Maximum flood estimates, standard project flood	
XXVI	3095-96	Apr. 9		Hollingshead	CAGPL	Drilling for crossing, permafrost
	3130-34		Slusarchuk Hardy	CAGPL CAGPL	Danger to integrity, solution to failure due to heave	
	3137		Slusarchuk		Calgary - predicting heave	
	3167-73		Slusarchuk		Integrity of pipe, frost heave - elimination	
	3174-78		Slusarchuk		Pipeline final design, bore hole spacing, site specific drilling	
	3211		Slusarchuk		Monitoring timetable, design manual	
	3230		Slusarchuk		Deep burial, removal frost-susceptible soils, bigger berm	
XXVII	3316-19	Apr. 10		Williams	CAGPL	Elevated pipeline, compressor sectors
	3378		Scott	MVPI	Geothermal prediction, degradation, heave	
	3425-26		Slusarchuk		Geothermal calculation, pipeline location	
	3432-34		McRoberts	CAGPL	Ice wedges	
XXVIII	3481-97	Apr. 11		Clark	CAGPL	Proposed use of culverts through frost bulbs
	3491-93		Clark		Placement of culverts, crossings	
	3497		Clark		Risk to pipeline	
	3499-3501		Clark		Integrity, Mackenzie flood estimates	
	3502-05		Clark		Stabilization measures, land slides	
	3541-43		Clark		Marginally stable slopes	
XXIX	3583-84	Apr. 14		McRoberts		Rational design to prevent movement of pipe
	3613		Clark		Final design without bore holes	
	3619-21A		Clark		Orthophotomosaics, design tools apart from bore holes	
	3637		Marshall	CAGPL	Evidence in chief - Purcell and Panel 3	
	3645-49				Mechanical design of application	
	3650		Purcell	CAGPL	Mechanical and systems design	
	3654-56				Final design incomplete	
	3665-71				Special considerations: scale and Arctic environment	
	3631-33				Metallurgical specifications	
	3696-3701				Detect and eliminate defects during pipe manufacture	
XXX	3716-21	Apr. 15		Price	CAGPL	Field bends, seismicity and frost heave - stress analysis
	3740-41		Purcell	CAGPL	Loads, stress analysis, curvature	
	3752		McMullen	CAGPL	Coating systems, cathodic protection	
	3761-63		Purcell		Communications system	
	3769-89		Purcell		Buried/above-ground, selection	
	3798		Purcell		Location, timing of decision	
	3800		Purcell		Gas heating valves, meter stations	
	3853-62		Holmberg	CAGPL	Present day technology/future technological advances	
	3863-66		Purcell		Design group, steel specifications	
					48"/42" alternative	

PIPELINE - DESIGN (continued)

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XXX	3867	Apr. 15	YK	Purcell	CAGPL	Optimum system
	3884-88			Purcell		Review, lead time ordering materials needed
	3892-3901			Purcell		Bending, re-routing, distances
XXXII	4019-20	Apr. 18		Purcell	CAGPL	Sufficient channels designed for communications load
	4031-33			Purcell		Compressor station spacing
	4059			Reid		Type of coating undetermined
	4075-80			Purcell		Interaction of engineers and designers
	4121-23			Reid		Detailed testing depends on final design
	4139			Reid		Design to detect and reduce sulphur
	4150			Genest		Policy (Horte) - communications route
	4158-60			Purcell		Geotechnical considerations - seismicity
XXXIII	4330	Apr. 21		Dau	CAGPL	Final review process - mutual agreement
	4355			Dau		Final - pipe length used
XXXIV	4388	Apr. 22		Dau	CAGPL	Selection of coating and wrapping method
	4391-93			Dau		Construction plan
	4402			Dau		Final design, location of pipeline, traplines
	4463-64			Dau		Gravel pads, compressor stations
XXXV	4580-82	Apr. 23		Dau	CAGPL	Construction contractor, responsibility
				Dau		Coating thickness, where coat tape obtained
XXXVIII	4852-53	May 14		Dau	CAGPL	Decision about treatment, disposal of effluent from borrow material washing
	4858-60			Dau		DPW consulted for final decision on wharf sites
	4861-64			Dau		Location, temporary access roads
	4888			Dau		Conventional/arctic construction methods
	4925-38			Lucas Dau		CARC
XXXIX	5064	May 15		Dau	CAGPL	Location of storage tanks - final design
	5096-5134			Dau		Ground truth, criteria for solutions - final design
	5150-54			Harlan		Dikes off ROW, silt basins, manual equipment
	5176-78			Dau		Lead time before and after regulatory approvals
40	5195	May 16		Fielder	CAGPL	U.S.S.R. design research institutes
41	5283	May 20		Fielder	CAGPL	U.S.S.R. - designing pipelines for Arctic conditions
	5352-53			Lucas		Final design, contingency plans
42	5514	May 21		Scott Hurd	MVPI CAGPL	Environmental concerns, operation manual
	5532			Genest		Internal organization, decision making process
	5582-92			Horte		Development of pipeline/mile by mile routing
43	5596-5603	May 22		Horte	CAGPL	Policy decision, Management Committee
	5619-21			Horte		Consortium members, decision making process
	5653-58			Gibbs		Supply and demand projections
	5701-05			Horte		Size of pipe for northern laterals
44	5725-33	May 23		Templeton	EPB	Design, construction techniques, environmental considerations
	5764-71			Bell		Policy in cost of repairs, Mackenzie Highway
	5836-38			Bayly		Location near Mackenzie Highway
	5851			Bayly		Location; policy whether to run pipeline through communities or outside
45	5898	May 24		Bayly	COPE/ITC	Policy, responding to concerns expressed at community hearings
	5908			Bayly		Policy statement on gas supply to communities
	5975-78			Scott		Final decision after funding
	5990-92			Horte		Company policies
	6070			Craik		Environmental implications of engineering design
46	6070	June 2		Craik	EPB	Environmental implications of engineering design
47	6299-6310	June 3		Adam	EPB	Engineering design - environmental implications
48	6361-66	June 4		Craik	EPB	Approval process of control agency
	6400			Adam		Minimal degradation through road design

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49	6556-75	June 5	YK	Horte	CAGPL	Policy re: pipeline routing
	6576-82			Horte		Policy re: native employment
	6591-92			Horte		Policy re: independent environmental assessment
	6599-6604			Horte		Policy re: regulations and design review
	6615-20			Horte		Policy re: restoration and cash compensation
50	6622-30	June 6		Horte		Policy re: compensation, regulatory agency (composition)
	6633-35			Horte		Policy re: public review of contingency plans
	6711-35			Horte		To control project must construct what is designed
	6733			Horte		Policy re: Canadian content
C-4	221	May 28	Hay River	Dean	Citizen	Policies, employment of northern people
56	7846-51	Aug. 18	YK	Horte	CAGPL	Cross delta route change; environmental concerns
58	8183-85	Aug. 20		Blair	Foothills	Foothills use of chilled pipe and burial; research conclusions; differences from CAGPL
	8254-70			Blair		Policy to carry Canadian gas for Canadians; government policies and support; chilled pipe; Canadian workmanship and control; AGTL and West Coast management equality; ownership of West Coast; policy not to carry Alaskan gas
51	6785	Aug. 11	WH	Hemstock	CAGPL	Design of alternative routes the same as for the mainline route; 48 inch pipe
	6804-10			Hemstock		Ditching procedures, pipe integrity, route selection
	6829-33			Hemstock		Pipe size, carrying capacity; sufficient supply to warrant pipe size
52	6899	Aug. 12		Banfield	CAGPL	Overcapacity design of lateral lines
53	7097-7100	Aug. 13		Banfield		Advantages of 42 inch laterals
54	7542	Aug. 14		Parker	CARC	Pipeline gravel demand
	7569-72			Parker		Trenching in permafrost soils; elevated pipe; stable soil conditions; field engineering problems; river crossings; monitoring problems
C-22	2245	Aug. 11		Berger		Buried, chilled concept
61	8625-51	Sept. 15	YK	Gibbs Panel 4	Foothills Foothills	42 inch pipe design by Foothills; wall thickness less in a 42" pipe; looping, location of compressor stations
	8651-91			Marshall Panel 4	CAGPL	Location of compressor stations; volume and pressure at compressor station; pipe specifications re: permissible volume, flow and pressure; wall thickness and roughness of plastic lined pipe; propane flow
	8691-93			Bayly Panel 4	COPE/ITC	Expected capacity during first year to fifth year; cost of service
	8693-99			Scott Panel 4	MVPI	Small size pipe used in community supply laterals; chilling of pipe south of Fort Simpson; environmental effects of non-chilled community supply laterals
61A	8700-61			Gibbs Panel 5	Foothills	Intermediate block valves between stations; permanent r-o-w smaller; construction r-o-w temporary; scheduling; pipe laying, bending, padding, backfill, borrow materials, economics of dual and single river crossings; stress and strain; soil/pipe interface; pipe buoyancy
62	8763-89			Panel 5 Marshall		Final design stage; allowable deflection; right-of-way width; mathematical modeling; geothermal aspects; crack resist arrestors; water drainage from ditch; pipe insulation, frost anchors; block valves; saddle weights; cost estimates river crossings; design refinements; stress analysis
	8829-78	Sept. 16		Panel 5 Scott	Foothills MVPI	Stress analysis; pipe deflection; design considerations to forestall frost heave; width of right-of-way; width of right-of-way during construction; grade consideration; shoo-fly roads; frost heave designs; pipe support structures; non-chilled pipe to be used on the Yellowknife lateral; block valves; safety measures; ditching and pipe bending procedures; ditch depth; removal of materials susceptible to frost heave; padding, bedding, pipe burial; borrow materials; overhead bridges and river crossings, repair; twin pipes versus single pipes

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63	8970-9071	Sept.17	YK	Panel 7	Foothills	Direct evidence re: compressor station design, layout, sound levels
	9026-32			Beer		Stress analysis of force exerted on pipe leaving compressor station
	9116-9206			Panel 8	Foothills	Metallurgy panel, direct evidence; difference between Foothills and CAGPL specifications; crack arrestors, pressures, pipe thickness, 42" and 48" alternatives, corrosion prevention, failures
64	9207-9271	Sept.18		Panel 8		Fracture control; Battelle tests, steel toughness; crack arrestors
	9252-65			Hushion	Foothills	Operation at 69% of test; decision to loop or add compression; operation at 80% of market so warranted
65	9488-91	Sept.19		Davison Hwang Spafford	Foothills Foothills Foothills	Safety of design; belief that a safe & environmentally secure pipeline can be built
	9499-9527			Panel 9	Foothills	Application distant from Final Design stage; consultants dealing with specific areas; differences between CAGPL & Foothills applications
	9560-61			Davison		Construction manual outlining drainage & erosion controls
67	9915	Sept.23		Mirosh	Foothills	Conventional design of Foothills; less problem on snow roads
68	10044	Sept.24		Hushion		Smaller pipe diameter of Foothills
	10059-61			Hushion		Chilled line; flexibility of design modification after chilling facilities installed
69	10472-77	Sept.25		Owen	MVPI	Design of saddle weights; coordination of construction activities; pipe integrity; pipeline buoyancy; river weights
73	10829-970	Oct.16		Frost Heave Panel	CAGPL	Effects of frost heave; engineering implications shut off pressure
75	11072-73	Oct.20		Parker	CARC	Design of gathering lines so as not to hinder caribou migrations; major trunk lines; buried and above ground lines
76	11325-34	Oct.21		Hughes	CARC	Final design and construction stage of the project, test hole drilling re: detailed soil and terrain analysis
77	11402	Oct.22		Rutter	CARC	Terrain conditions, pipe to suit conditions
	11457-88			Roed	CARC	Route, engineering considerations, edge of the shield, use of fluted moraines; simplicity of design, construction techniques
78	11613-74	Oct.23		Minning	CAGPL	Permafrost areas, drainage patterns re: site conditions; right-of-way width, land requirements for construction of compressor stations; erosion control measures; borrow requirements; revegetation; chilled pipeline - design and impact; buried pipeline; river crossings
80	11869-72	Nov. 4		Hemstock	CAGPL	Mode of construction - buried chilled concept for cross-Delta route - not submitted to environmentalists for comment
85	12712-30	Nov.12		Scott Environmental Panel	MVPI CAGPL	Engineering details for river crossings needed, Blackwater River as example
85-A	12799-800	Nov.12		Hemstock Harlan	CAGPL	River crossing designs, individual
86	12802-08	Nov.13		Scott Environmental Panel	CAGPL	River crossings
92	13998-99	Nov.21		McCart	CAGPL	Final design stage, contingency plans
	14033-41			McCart		Appropriate preventive measures at specific locations
94	14240-41	Dec.2		Hemstock	CAGPL	Co-ordination of engineering feasibility and environmental concerns; site specific recommendations
	14347-49			Jakimchuk	CAGPL	Allow passage of caribou during construction; breaks left in pipe, turing of pipe at right angles; monitoring

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95	14425-27	Dec. 3	YK	Banfield	CAGPL	Confidence in the engineering and geotechnical knowledge of pipeline construction, design, mitigative measures; pipeline in isolation from a road on the North Slope
97	14818-21	Dec. 5		Jakimchuk	CAGPL	Designing to deal with site specific problems
99	15107-35	Dec. 9		Bouckhout	Foothills	Protection measures adopted to minimize environmental impact
	15140-45			Environmental Panel	Foothills	Possibility of building pipeline to design; avoidance of important animal areas; mitigative measures
105	16069-70	Dec. 17		Millen	CARC	Selection of standard design re: stream crossings
106	16176-77	Dec. 18		Lent	CARC	Elevated animal crossings re: minimum clearance; Siberian gas line re: caribou crossing facility
108	16431	Jan. 13		McT-Cowan	EPB	Pipeline integrity poses a greater threat to the coast area than to the interior
110	16757-61	Jan. 15		Bergerud	CARC	Crossing a buried pipeline or under an elevated pipeline, deflection of the herd
	16885-91			Lent		Impact of a buried, chilled, gas pipeline, caribou crossings; pipeline berm, surcharge of the berm
C-27	2763-64	Sept. 10	FS	Rutherford	Foothills	Involvement re: building and operating pipelines; policy of company to build up community for employees
C-30	2922-29	Oct. 6	PP	Berger Mirosh	Foothills	Gas line looping, oil line design
	2938-40			Carter	CAGPL	Pipeline dimensions, transport capacity
C-33	3110-11	Oct. 9	FS	Carter		CAGPL proposal re: diameter, processing plants, compressor stations, main centres
C-35	3389	Oct. 22	LI	Carter		Pressure in gas line, compressor station sites
	3393-94			Berger		Pipeline construction through permafrost - pipeline design employed in Alaska, Soviet Union, Canada
C-36	3504	Jan. 29	In.	Burrell	Foothills	42-inch diameter pipe re: extension of resource lifetime
C-37	3568	Feb. 10		Workman	CAGPL	Description of pipeline
130	19752	Mar. 16	YK	Purcell	CAGPL	Design of cross-Delta route, evidence-in-chief
131	19975-76	Mar. 17		Hollingshead	CAGPL	Delta river crossing designs take into account channel design flows
132	20009	Mar. 18		Hollingshead		Final design will have preventive measures for bank erosion, Shallow Bay
	20065-66			Cooper	CAGPL	Design changes to allow for hole in bottom of Shallow Bay
	20090-98			Cooper		Designs of channel crossings in Delta, bottom soundings, studies to be done; erosion control techniques; crossing Delta islands with twinpipes
142	21520-21	Apr. 13		Steeves	CAGPL	Mitigating policies, impact
C-63	7039	June 1	MTL	Ford	Citizen	Study listing 18 faults in US Arctic pipeline design
C-76	8353-56	Aug 25	DET	Burrell Steeves	Foothills CAGPL	Dimensions of pipe, laterals, insulation
	8396-70			Burrell		Weights to keep stable in water, coating to resist rust, safe location
181	28042	Sept 8	YK	McCambly	MVPI	Advantages of large diameter
	28091			McCambly		Complicated undertaking problems
193	30126-36	Oct 5		Doyle	EPB	Effective environmental inspection must be preceded by final design review, approval
	30142			Doyle		Estimate of design review staff required
194	30332-33	Oct. 6		Doyle		Agency may waive preliminary design review requirements in certain cases

PIPELINE DATA SHEET

	<u>Date</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
XIX	2201 2203 2208-12	Mar.17	YK	Williams	CAGPL	Sans Sault test site; flooding of ditch ditching operation, machinery; frozen material
XXI	2480-86	Mar.19		Clark	CAGPL	Slide presentation; Ditching, spoil mound, backfill for berm; diversion dikes; impervious ditch plugs
XXII	2586	Mar.20		Williams		Limit of depth, back hoe
	2653			Hollingshead	CAGPL	Backfill, excavation
	2662-63			Hardy	CAGPL	Alternative overhead crossings
XXIII	2751-58	Mar.21		Bell Williams	NWTIB/MA	Exhibit 54 - ditcher, blasting
XXIV	2829-31 2845-49	Apr.7		Hardy Clark		Possible blasting on North Slope to ditch Selective backfill, material removed - disposal
XXIV-A	2903			Clark		Conservatism of design and construction
XXVI	3113-28	Apr.9		Cooper Hollingshead	CAGPL	Trench, Point Separation Sand bed - side slope
	3174			Slusarchuk	CAGPL	Bore holes
XXVII	3278-79	Apr.10		Hollingshead		Trenches, volume, dual crossing, Mackenzie River - Point Separation
	3302-03			Williams		Ice content
	3324-29			Williams		Testing, Mountain River, trenches, 150-200 feet excavated
	3433			McRoberts	CAGPL	Backfill, pre-start up
	3495-96			Scott	MVPI	Filling with water
XXIX	3565	Apr.14		Williams		Blasting required by terrain unit
	3621-22			Clark		Geological profile from ditch data
XXXI	3892	Apr.16		Purcell	CAGPL	Mechanical bends/change in alignment, ditching machines
	3979			Reid	CAGPL	Frozen walls, pipeline testing
XXXIII	4302	Apr. 21		Dau	CAGPL	Arctic method - ditches on packed snow
	4339-40			Dau		Wheeled ditchers, extra-buoyancy control
	4343-55			Williams	CAGPL	Ditching machines - development
	4362			Dau		Trench dug through berm
XXXIV	4469	Apr. 22		Williams		Caribou migration
XXXV	4601-14	Apr. 23		Williams		Testing of machines
	4621-23			O'Rourke	CAGPL	Ditching machines
XXXVII	4739-41	May 13		Bayly	COPE/ITC	Down time, ditching machines
	4753			Dau		Trench for off-shore route
	4816			O'Rourke		Ditcher; coarse/fine material
	4878-86			Berger Williams		Blasting between Fort McPherson and Fort Yukon
XXXVIII	4899-4903	May 14		Williams		Blasting, Great Bear River
	4906-12			Lucas	CARC	Interval between snow road construction and ditching
	4917-18			Lucas		Weather conditions
	4985			Williams		Stump removal along ditch line
XXXIX	5016-17	May 15		Williams		Track vehicles along ROW
	5067-79			Williams		Excavations - Point Separation - spoil mounds
	5089-90			Dau		Excavation at river crossing
46	6105	June 2		Templeton	EPB	Severe potential impact from spoil mounds
47	6205	June 3		MCT-Cowan	EPB	Direct mortality source for caribou; recommendation
51	6804-06	Aug.11	WH	Hemstock	CAGPL	Rearrangement of surface soil and sub-surface materials; winter construction; revegetation of disturbed areas
55	7638	Aug.15		Morlan	CARC	During the ditching procedure archaeological sites might be uncovered
	7643-45			Morlan	CARC	Need for borrow, may reveal archaeological sites as well as destroy some
61-A	8714-18	Sept.15	YK	Bauer	Foothills	Continuous support for pipe; minimize open ditch exposure, bottom ditch contour; soil behaviour; bedding, padding, backfill

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61-A	8723-27	Sept.15	YK	Walker	Foothills	River crossings; dredging; ditching; depths; backfill; bedding, borrow materials; ditch contours; padding
62	8859-68	Sept.16		Mirosh	Foothills	Procedure adopted by Foothills; order of bending and ditching of pipe; ditch design and specifications; ditch depth; removal of materials susceptible to frost heave; padding and bedding; borrow materials
	8878-79			Walker Gibbs	Foothills	Arctic and conventional construction techniques; bending and ditching; flexible pipe
	8881-86			Glockner	Foothills	Specified minimum yield strength of the pipe; maximum stress; displacement of pipe, bending
64	9409	Sept.18		Mirosh		Larger chunks of ditch material to be reduced for berm & revegetative purposes
65	9606-08	Sept.19		Bauer		Mound to prevent frost built ahead of ditching
	9623-24			Kosten	Foothills	Conventional ditching for 50% of pipeline route; special techniques in discontinuous zone & in permafrost
66	9663-65	Sept.22		Kosten		Preceded by pipe stringing; mobilization & preparation
	9756-63			Kosten		Percentage of ditch to be blasted
	9765			Mirosh Kosten		Continuous from Dec. to April
	9780-84			Mirosh Kosten	Foothills Foothills	Procedure to put pipe in ditch; ditching to precede bending; placement of the spoil mound
67	9900-01	Sept.23		Kosten Mirosh		Blasting tests to be carried out
	9945-59			Bauer	Foothills	Question of building snow mound to prevent frost penetration
70	10525	Sept.26		Owen	MVPI	Sequence of construction events
79	11749A-53	Nov. 3		Dabbs	CAGPL	Use of backhoe or wheel ditches for sod replacement technique
81	12062-63	Nov. 4		Clark	CAGPL	Use of imported backfill when ice content high in ditched material; pulverization
82	12139-40	Nov. 6		Dabbs		Nature of material replaced on mound after wheel ditching; revegetation
85	12639-50	Nov.12		Bayly McCart Williams Harlan	COPE/ITC CAGPL CAGPL CAGPL	Intersecting aquifers, North Slope rivers, sedimentation, alternate techniques, fish kill
86	13030	Nov.13		Williams		Ditcher has own lights; Prairie experience
87	13076-99	Nov.14		Reeves Bouckhout	Foothills	Archaeological artifacts found during; destruction of sites; surveys before
	13168-69			Marshall Reeves	CAGPL Foothills	Archaeological opportunities during ditching
88	13266-72	Nov.17		Reeves		Archaeological salvage during ditching
	13285-90			Reeves Bouckhout	Foothills	Archaeological monitoring during ditching
90	13749	Nov.19		McCart	CAGPL	Ditcher may dig down to fish culverts in river crossing berms
91	13831-32	Nov.20		McCart		Siltation tests, river crossings
93	14078	Dec.1		McCart		Construction scheduling, Great Bear River
98	14974	Dec.8		Scott Jakimchuk	MVPI CAGPL	Filling ditch for migrating caribou herds
99	15098-104	Dec.9		Scott Hemstock	CAGPL	Archaeological salvage
106	16169	Dec. 18		Lent	CARC	Preference of open ditching re: barrier to animals
130	19818-37	Mar.16		Williams	CAGPL	Dredging ditch across Shallow Bay, equipment, technique

PIPELINE - DITCHING (continued)

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131	19840-72	Mar.17	YK	Engineering Panel	CAGPL	Shallow Bay crossing; cross-Delta land portion; ditching machines
	19888-97			Williams Hollingshead	CAGPL CAGPL	Cross-Delta route channel crossings
	19967-69			Williams		Cross-Delta route, twin line trenches, distances apart
	19981-91			Williams		Dredging, cross-Delta route channel crossings
	19993-94			Williams		Dangers of winter construction, Shallow Bay
132	20082-84	Mar.18		Williams		Shallow Bay, dredging
	20099			Williams		Ditches for twin pipes on Delta will be dug at same time
133	20155	Mar.23		Webb	CAGPL	Shallow Bay crossing, impact on whales
	20162-63			Rowe	CAGPL	Impact, mitigation of Shallow Bay crossing
134	20209-11	Mar. 24		Environmental Panel	CAGPL	West side, Shallow Bay crossing, techniques to prevent erosion, preferences
135	20428-29	Mar. 25		Webb	CAGPL	Recommendation re Shallow Bay crossing ditch spoil mound as barrier to whales
C-40	3840	Feb.23	AK	F. Elanik Rowe	Citizen CAGPL	Dredging to keep sand from filling pipe hole
195	30574-77	Oct.7	YK	Mirosh Kosten	Foothills Foothills	Blasting through gravel pad, open ditch degradation
	30598-600			Fowler	CAGPL	Factors considered in development of an arctic ditcher
	30620-21			Johanson	CAGPL	Design of Banister model 710 ditcher
195A	30701-09	Oct.7		Dau Rymes	CAGPL CAGPL	Mechanical, metallurgical evaluations of ditcher teeth at Churchill, Edmonton, tests to be conducted at Norman Wells
	30730-37			Johanson Daniels	CAGPL CAGPL	Ditching capacities of the 710, 812 backhoes, Siebe test site
196	30891	Oct.12		Bayly MacLeod	COPE/ITC CARC	Dredging subject of water licence; DOT dredging study underway

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68	10188-93	Sept.24	YK	Templeton	EPB	Proposal of posting a performance bond by companies
	10202-05			Berger		Regulatory organization governing Alyeska line
	10208-10			Templeton		Description of the scope & nature of regulatory authority recommended by EPB; performance bond
	10214-19			Templeton		Bonds; levies; practice of performance bond idea
69	10461-77	Sept.25		Owen	MVPI	Inspection of operation; Fort Liard operation; government inspection of pipe laying and welding operations
	10483-99			Owen		Land use inspector; Resource Management Officer at Fort Liard
70	10525	Sept.26		Owen		Sequence of construction; westcoast operations re: Pointed Mountain
	10530-31			Owen		Posting of a performance bond; completion of rehabilitation projects re: Pointed Mountain
82	12246-56	Nov. 6		Hemstock	CAGPL	Example of Pointed Mountain line; nature of an easement; regulatory responsibilities; use of right-of-way for non-pipeline operations
85	12698-700	Nov.12		Bayly Hemstock	COPE/ITC	Possibility of necessity of hydro-electric power for compressors
92	13975-77	Nov.21		Bayly McCart	CAGPL	Restricting personnel from fishing; enforcement
193	30235-40	Oct. 5		Doyle Templeton	EPB	Performance bonds, penalties
201	31841	Nov.16		Templeton		Permittee should be bound by a performance bond

PIPELINE - FACILITIES

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XVII	1923-25 1931-44	Mar.13	YK	Bell Bell Williams	NWT 1B/MA CAGPL	Socio-economic factors involved in location Status of land required; location on traplines
XIX	2198-99 2205-96			Williams		Sans Sault test site; camp, living quarters, utility buildings, etc.
XXIX	3648 3650	Apr.14		Purcell	CAGPL	Design and capacity drawings Design - potential sites
XXXIII	4232	Apr. 21		Dau	CAGPL	Support facilities - summer '76
XXXIV	4391	Apr. 22		Dau		Possible integration of pipeline and community facilities
42	5497-99	May 21		Scott	MVPI	Public curiosity, security
43	5583-84 5645	May 22		Horte Horte	CAGPL	Location above-ground facilities; distance from communities Existing Alberta Gas Trunk Line facilities
44	5766-67 5803-07	May 23		Bell Bell		Permanent facilities; wharves, permanent roads Routing and facilities location, socio-economic considerations
45	5926-30	May 24		Bayly	COPE/ITC	Location, distance from communities
46	6123-24	June 2		Adam	EPB	Impact when vegetation surface disturbed or destroyed
47	6189-91 6233-34	June 3		McT-Cowan Templeton	EPB EPB	Habitat alteration, location to avoid damage Permanent impact on land
58	8185-86	Aug. 20		Blair	Foothills	Use by Foothills of community facilities re: wharves, communication systems, ice roads and highway
59	8356-58	Aug. 21		Bouckhout	Foothills	Review of borrow areas, access roads, wharves, stock-pile sites; meter stations; general approach by Foothills to facilities
51	6810	Aug.11	WH	Hemstock	CAGPL	Use of Fairbanks and Fort Yukon corridors would eliminate the bulk of facilities which would be otherwise located in NWT were the interior route or the off-shore corridor developed
54	7468-69	Aug.11		Weeden	CARC	Extensive system of gathering lines from wells to pump to processing stations, roads and living quarters if significant reserves discovered in the Marsh Creek arcticline and eastern Beaufort Sea
C-21	2083-86 2086-88A	Aug.9	NW	Rowe Burrell	CAGPL Foothills	Camps and operations - Norman Wells Camps and operations - Norman Wells
68	10087-87/8	Sept.24	YK	Hushion	Foothills	Total acreage required by Foothills & CAGPL
72	10692	Oct.15		Bayly Longlitz	COPE/ITC MVPI	Large facilities such as pipelines, gas plants; Federal Territorial Regional Planning Authority
75	11053 11136-37	Oct.20		Weeden Parker	CARC	Discoveries of oil and gas; construction of facilities to transport oil and gas Trans-Alaska route, a corridor does exist--Alyeska route; substantial resources committed
76	11145-79 11179-298	Oct.21		Parker Weeden Parker Weeden		Alyeska facilities and corridor established, Fairbanks route; North Slope route Alyeska facilities; Alaskan policies; Alyeska haul road, and Alaska highway; cost to the State
77	11457-88	Oct.22		Roed	CARC	Edge of the shield route; planning considerations, construction concerns; terrain conditions and sensitivity
97	14725-34	Dec.5		Jakimchuk	CAGPL	As disturbance to moose, Mackenzie Valley
99	15129-32	Dec.9		Whitney	Foothills	Assessing facilities for impact on mammals
102	15559-68	Dec. 12		Peterson	CARC	Proposed Firth River, Old Crow Flats IBP sites, preferable not to have facilities in areas; legislation governs placing, operating of facilities, not guidelines
103	15787-88	Dec. 15		Steigenberger	CARC	Final design considerations for North Yukon
C-25	2510	Sept. 8	FS	Black	Citizen	Project proposals, land requirements
C-30	2898	Oct. 6	PP	Carter	CAGPL	Compressor stations
194	30374-79	Oct.6	YK	Hemstock	CAGPL	Highway construction across Yukon Coastal Plain not recommended

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XVI	1801-03	Mar.12	YK	Dau Gibbs	CAGPL Foothills	Earthquake-related breaks; river crossing failures; Timing of repairs
XVII	1999-2004	Mar.13		Williams Bayly Berger	CAGPL COPE/ITC	Repairs of failure: scheduling, crews, equipment, impact on environment; temporary/permanent repairs; time involved
XIXA	2281-83	Mar.17		Hardy	CAGPL	Repairs to failures resulting from seismic action
XXI	2496-97	Mar.19		Hollingsworth Morgenstern	Foothills CAGPL	Potential for failure in active seismic areas, interior route; design measures; twinning?
	2509-12			Hollingshead Williams	CAGPL	Twin pipes, insurance; potential failures due to scar, metal fatigue, other causes
XXII	2647-48	Mar.20		Hollingshead		Dualling major crossings, difficulty of repairing river break
XXIII	2711-12	Mar.21		Clark	CAGPL	Line breaks in summer
	2742-43			Hardy		Pipe exposed from flooding
XXIV-A	2906-10	Apr.7		Clark		Risk of damage, loss of revenue, calculated risk
XXV	3004-11	Apr.8		Hardy		Failure - environmental damage due to repair
	3043-47			Hollingshead		Restoration of channels and banks
	3060-62			Hollingshead		Damaged dual river crossing
XXVI	3145-50	Apr.9		Slusarchuk	CAGPL	Differential heave including rupture
	3151-54			Slusarchuk		Remedial measures
	3212-13			Slusarchuk		Remedial measures, frost heave
XXVII	3321-22	Apr.10		Scott Williams	MVPI	Testing, slope slides and erosion
	3335-42			Williams		Sans Sault test site, slope failure
	3372-74			Scott Slusarchuk		Pipeline integrity, sands, permafrost degradation
	3432-33			McRoberts	CAGPL	Ice wedges, pipe deformation
XXVIII	3452-55	Apr.11		Cooper	CAGPL	Unfrozen aquifer, seepage, excess pressure
	3464-67			Clark	CAGPL	Deep icings, water pressure, pipeline integrity
	3481-3497			Clark		Use of culverts through frost bulbs
	3539			Morgenstern	CAGPL	Security, slope failure
	3554			Scott	MVPI	Rerouting, slope stabilization
XXIX	3572-73	Apr.14		Hardy Clark	CAGPL	Swamp weights failed to hold pipe
	3583			Clark		Surcharging, melting of ice lenses, localized freezing
	3681-83			Purcell	CAGPL	Reinforcing bands, girth weld quality
	3696			Purcell		Detect and eliminate defects during pipe manufacture
XXX	3766-67	Apr.15		Purcell		Cost estimates, buried/above-ground, pile supports, insulation
	3793-97			Purcell King	CAGPL	Travaillant Lake, decompression, liquid/gas
	3805-09			Purcell		Longitudinal fractures, reinforcing bands
	3838-51			Holmberg	CAGPL	Testing, crack arrestors, longitudinal fractures
	3854-56			Holmberg		Girth welding
XXXI	3896-3903	Apr.16		Purcell		Maximum bends, fatigue loading
	3923-27			Purcell		Pipeline testing, brittle failures
	3953-60			Anthony	CARC	Metallurgical committee, pipe manufacture
	3975-80			Reid	CAGPL	Methanol test method pressure within pipe, recovery in case of failure
XXXII	4041-46	Apr.18		Purcell		Spacing of arrestor bands
	4061-62			Purcell		Rupture - gas released causes fire
	4081-96			Price	CAGPL	Non-uniform curvature, Scott's pencil analogy, fractures
	4109-11			Holmberg		Effect of pipe leak - loss of gas, possible erosion
	4167			Holmberg		Influence of frost bulb on fracture propagation

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40	5211-13	May 16	YK	Hurd	CAGPL	Transportation of heavy equipment
	5235			Hurd		Long term creep
	5237-42			Hurd		Contingency plans for short sections
	5246-49			Hurd		Major line repairs, contingency plans
41	5294	May 20		Hurd		Availability of heavy equipment for repair
	5306-08			Fielder	CAGPL	Movement of ACV across water
	5312-20			Templeton	EPB	Contingency plans, repairs
	5325-28			Hurd		Reporting line breaks, repair
	5350-65			Lucas	CARC	An example, break on North Slope
	5369-71			Bayly	COPE/ITC	Air patrol, line breaks
42	5398-99	May 21		Hurd		Major failures, fires
	5507-17			Scott Hurd	MVPI	Postponement of repairs
44	5850-51	May 23		Bayly Horte	CAGPL	Location; appropriate distance from communities
46	6126-34	June 2		Bliss	EPB	Emergency repairs - surface damage
47	6296	June 3		McT-Cowan	EPB	Contingency plans - lack of detail
49	6604-13	June 5		Horte		Advise regulatory authority, report written after
C-6	495-496	May 30	Hay River	Bughhins	Citizen	Breaks, fires
	533-536			McKay	Citizen	Spills in rivers, lakes
C-9	830-32	June 26	F.F.	G.Kodakin	Citizen	Winter, seepage and leaks
C-10	865-66	June 27	F.N.	P. Baton	Citizen	Breaks at river crossings, impast
	973-74			J. Blondon	Citizen	Integrity of the pipeline in winter
C-11	1031-45	July 8	F. McP.	J. Blake Workman	Citizen CAGPL	Types of breaks
C-12	1091-92	July 9		J. Itsi	Citizen	Monitoring, turn off valves
	1105-09			J. Itsi	Citizen	Monitoring, access to valves
C-15	1372-78	July 12	O.C.	W. Moses	Citizen	Breaks in the line, spills
C-16	1488	July 13		E. Joseph	Citizen	Breaks, spills
	1497-1501			Rowe	CAGPL	Gas flow after break, possible fires
	1518			J. Tizya	Citizen	Breaks at river crossings
	1548-49			B. Charlie	Citizen	Concern that there may be breaks in pipeline on Old Crow Flats
	1581			R. Charlie	Citizen	Breaks, damage to land
C-17	1722-24	July 17	F.L.	E. Dean	Citizen	Repair work to be done by West Coast Transmission
58	8151-52	Aug. 20	YK	Blair	Foothills	Foothills intentions for repairing line breaks; contingency plans; spring repairs
52	6956-59	Aug. 12	WH	Dau	CAGPL	Degree of difficulty at Shallow Bay
54	7433	Aug. 14		Geist	CARC	Impact of spills on the calving grounds
	7494			Weeden	CARC	Summer repair; soil movement; impact on wildlife species; Fort Yukon corridor
	7508-10			Weeden		Offshore corridor; impact of spills on Bird and fish populations; repair periods limited from July to mid-August due to ice conditions (conventional marine repair techniques)
C-18	1815-18	Aug. 5	FGH	C. Barnaby	Citizen	Impact of oil spills from Canol line
C-20	1919-20	Aug. 7		C. Gully	Citizen	Worry re: corrosion of the pipeline
C-23	2323-24	Aug. 14	WH	A. Fekete	Citizen	Ecological impact of oil pipeline break Mackenzie Delta
61-A	8704-06	Sept. 15	YK	Mirosh	Foothills	Intermediate block valves installed to limit gas loss if breakage occurs; sensing devices; third party damage major cause of breakage in southern Canada and U.S., toughness of pipe, pipeline surveillance
	8725-26			Walker	Foothills	River crossings; operation and maintenance contingency plans; inspection; final pigging of the crossing
	8756-60			Mirosh Berger Marshall	CAGPL	Single pipe at river crossings versus dual pipe; gas supply in event of breakage; ice scour depths

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62	8774	Sept.16	YK	Mirosh	Foothills	Third party damage is major cause disruption to pipeline; intermediate block valves; maintenance
	8791-94			Mirosh		River crossings; single versus dual pipe at river crossings; contingency plans if breakage occurs, fish
	8809-11			Mirosh		Third party vandalism; block valves; right-of-way width; development of the corridor
	8854-59			Mirosh		Block valves; fire and explosions; safety measures
	8873-78	Sept.16		Mirosh		Repair of pipe underwater, twined and single pipe; engineering capabilities; bank failures; metallurgical rupture; environmental protection; feeder lines; repair of pipe during any season
63	9047	Sept.17		Mirosh		Reduction of power level at compressors; shutdown of compressors; preventative maintenance system when weather prevents flights
	9096-9113					Noise levels involved in a blow down
	9133			Shelton	Foothills	Metallurgical specifications to prevent leaks and ruptures
	9201-03			Shelton		Pipeline leaks - statistics from AGTL
64	9207	Sept.18		Wetterberg	Foothills	Battelle studies on fracture control
	9241-51			Hushion	Foothills	Crack arrestors; susceptibility of CAGPL line to fractures; cathodic protection
	9265-67			Hushion		Deconstruction between initiation & arrest of a fracture
	9273-82			Yip	Foothills	Causes of heave; role of overburden pressure
	9285-87			Davison	Foothills	Problem areas typed in field studies
	9304-05			Spafford	Foothills	Frost bulbs form in riverbeds where permeability low
	9514-28			Hwang	Foothills	Object of geothermal analysis; difference between CAGPL & Foothills re prediction of degree of frost heave; difference in models connection analysis integrated into Foothills computer model
	9340-43			Hwang		Effect of consolidation in limiting frost heave
	9349-50			Yip		Intention to prepare frost heave profile chart of entire pipeline route
	9360-62			Yip		Phenomenon of consolidation, quantification of effects; field data
	9396-99			Claridge	Foothills	Frost heave more likely on Foothills route rather than CAGPL in Ebbutt Hills
	9428			Spafford		Frost bulb formation & the interruption of stream flow
65	9482	Sept.19		Spafford		Permeability required to prevent frost bulb formation
	9494			Davison	Foothills	Role in Foothills structure to assess problem areas
	9518-20			Hwang Panel 9		Differences in CAGPL & Foothills approach to the problem
	9570			Claridge	Foothills	Repair of mound breaks if heave occurs
70	10512-16	Sept.26		Owen	MVPI	Rehabilitation work at river crossings
	10526-27			Owen		Exposure of pipe
72	10804	Oct.15		Adam	EPB	Pipeline due to soil and pipe interaction
73	10918-20	Oct.16		Berger Clark	CAGPL	Frost Heave; fire potential; failure; Alyeska; costs; abandonment
76	11146 11180	Oct.21		Weeden Weeden	CARC	Repair activities; damage to tundra, vegetation Oil spills, impact on waterfowl greater during migration periods
	11224			Parker	CARC	Spills of petroleum products; impact on frost bulb, ground water system re: water quality
82	12176 12262-63	Nov. 6		Williams Williams	CAGPL	Access to coastal route easier in case of failure Most serious problem in operations and maintenance is possibility of doing repair work in summer
	12284-85			Clark	CAGPL	Environmental risks of thaw settlement - disruption caused by excavation necessary for repairs
85	12709-10	Nov.12		Scott	MVPI	Ensure integrity at river crossings to avoid re-entry for repair

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88-A	13392-93	Nov.17	YK	McCart	CAGPL	Methanol spills, impact on fish
90	13609-20	Nov.19		Dabbs	CAGPL	Effects of methanol, fuel oil etc. spilled on vegetation
91	13902-54	Nov.20		McCart		Impact on domestic fisheries; methanol impact on fish, studies
92	13996-97	Nov.21		McCart	CAGPL	Ruptures during testing; synergistic impact of silt and methanol on fish
93	14073-76	Dec.1		Hemstock	CAGPL	Pipe failure during methanol testing; clean up and repair procedures; fish
	14192-93			Gunn	CAGPL	Repair of North Slope; interference with caribou or geese; contingency plans in case of emergencies
98	14902-04	Dec.8		Gunn		Use of hovercraft for repairs, noise disturbance to birds
99	15042-44	Dec.9		Hemstock		North Slope, repair assessment, planning
101	15456-57	Dec. 11		Zoltai	CARC	Repair in unfrozen fens, possible damage to terrain
103	15777	Dec. 15		Steigenberger	CARC	Summer, winter plans required re: oil pipeline failure
105	16128	Dec. 17		Marshall	CAGPL	Access by repair crew re: major line break or washout; tasks at repair sites
107	16300-01	Jan. 12		McT-Cowan	EPB	Beaufort Sea development, propensity for oil and fuel spills, damage to coastal areas
108	16442-44	Jan. 13		McT-Cowan Veale	CYI	Greater danger for spills, Interior Route area of the Porcupine and Yukon watershed, salmon run; coastal area immediate impact on birds, fish, mammals
C-24	2424-27	Aug. 23	TL	Hushion Rowe	Foothills CAGPL	Operation and maintenance programs; clean-up and revegetation intentions; southern examples; compensation
C-25	2546-49	Sept. 8	FS	Hammond Ellwood	Citizen Foothills	Gas leakage impact, detection, repair
C-31	3015-16	Oct. 7	FR	King	Citizen	Oil pipeline failure between McMurray and Waterways- environmental impact
C-34	3281-85	Oct. 15	YK	Russell Workman	Citizen CAGPL	Possibility of rupture eliminated by steel and thickness, crack arresters; fighting forest fire if rupture; tear in pipe
C-38	3666-71	Feb.15	In	Mirosh Berger	Foothills	Gas pipeline failures-potential impact, compensation to people affected
122	18592-97	Feb.11		Barry	COPE/ITC	Oil leakage into rivers in Mackenzie Valley- impact on waterfowl, fish habitats
126	19146-55	Feb.16		Pettigrew	COPE/ITC	Interprovincial pipeline failure - splits along horizontal welded seam
	19163			Pettigrew		Percentage of annual oil spillage related to pipeline failure
	19256			Pettigrew		Annual number of pipeline failures in U.S.
130	19761	Mar.16	YK	Hollingshead	CAGPL	Much of length of cross-Delta route inaccessible during spring break-up so 35 miles to be twinned
	19815			Williams	CAGPL	Difficulty of repairing failures because of floods
	19822			Williams		Pipe in Beaufort Sea, difficult to repair
131	19995-20006	Mar.17		Williams		Ice scour problems for off-shore route, Yukon coast, supply lines form off-shore wells; "insurance" of twin-pipe river crossings, cross-Delta route, possible breakage causes, scour
132	20040-44	Mar.18		Purcell Hollingshead	CAGPL CAGPL	Use of block valves to limit escaping gas at break; twinning pipes at river crossings in case of breakage
133	20205-06	Mar.23		Dabbs	CAGPL	Consequences of oil pipeline failure on vegetation
135	20600	Mar. 25		Sprague	MVPI	Difficult to guard against methanol spills from pipe testing
C-44	4280-81	Mar.9	TUK	Noksana	Citizen	Afraid of a gas leak, impact on reindeer
C-68	7912-13	July 16	FP	G. Gargan	Citizen	Possible earthquake, impact on pipeline integrity
C-71	8008-09	Aug 10	RE	Burrell Workman	Foothills CAGPL	Chances of break are remote; safety features; difference between break in oil pipeline and gas pipeline

PIPELINE - FAILURES AND REPAIRS (continued)

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C-73	8179	Aug 12	LLM	J.Z. Fish	Citizen	Chance of pipeline breaking in cold weather
C-76	8355-60	Aug 25	DET	Chief Charlo	Citizen	Fear will crack in winter; fire will make it burst; rust; spills
	8364-68			A. Liske Berger	Citizen	Fear of cracking in winter, break through shifting; frost heave predicted
	8380			J. Martin	Citizen	Fear of break, destroy land
	8384			J. Martin	Citizen	Pipe will get hot from long fires and break
C-77	8399-400	Aug 26		I. Sangris	Citizen	Too much pressure on pipe; fire
	8402			I. Sangris		Break in cold weather
	8409-10			S. Abel	Citizen	Might break
	8431			C. Mackenzie	Citizen	May burst

PIPELINE - 42" ALTERNATIVE

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XVI	1745	Mar.12	YK	Genest	CAGPL	Filing of material
XVII	1875-77	Mar.12		Genest		Filing of Exhibit 74
	1879-86			Gibbs	Foothills	Discussion of "alternatives"
XXI	2511	Mar.19		Hollingworth Genest	Foothills	Line over Shallow Bay - 48" or 42"
XXIV	2779-85	Apr.7		Williams	CAGPL	Greater likelihood of looping
XXX	3755-56	Apr.15		Purcell	CAGPL	Compressor stations, 48" pipe/42"
	3788			Purcell		Lower unit cost of transporting gas, design
	3862-66			Purcell		Northern supply lines, pressure, thickness, diameter of pipe
XXXI	3913-14	Apr.16		Purcell		Potential problems, equipment installation
XXXII	4024-34	Apr.18		Purcell		Deferral of looping (42" and 48" pipe), spacing of compressor stations
	4073-75A			Genest		Possibility of looping
XXXV	4579	Apr. 23		Dau	CAGPL	Reduce weld requirements
42	5547-48	May 21		Horte	CAGPL	48 inch diameter vs 42 inch diameter
43	5662	May 22		Horte		Supply of gas available
49	6586-90	June 5		Horte		Desireable if reserves don't increase and costs do
56	7921	Aug. 18		Blair	Foothills	Pipe size 48 inch versus 42 inch; pipe market availability; consumer gas demand
57	8065-77	Aug. 19		Blair	Foothills	Foothills capacity with a 42" pipe adequate given proven reserves of to-day
53	7097-7100	Aug. 13	WH	Banfield	CAGPL	Advantage in sensitive terrain
61	8626-51	Sept.15	YK	Gibbs Panel 4	Foothills	42 inch pipe versus 48 inch CAGPL pipe; no carryby Foothills of Alaskan gas; less pressure, economically feasible to use 42 inch pipe; cost of flow; studies comparing cost when a 38 inch, a 42 inch and 48 inch pipe are used
	8651-67			Marshall Panel 4	CAGPL	Permissable flow and pressure given size of pipe; pipe wall specifications, crack arrestors
61-A	8701-09			Mirosh	Foothills	Stress levels studies; non-permafrost areas; areas of fine grained soil with a high water table; drill hole data; mathematical modeling; pipe displacements to unit length of pipe; insulation and burial; frost anchors; geothermal studies; site specific areas of potential frost heave
63	9117-18	Sept.17		Hushion	Foothills	42" pipe can be manufactured in Canada; requires standard components
	9159-64			Hushion		El Paso use of 42" pipe with crack arrestors
	9171-9201			Hushion		Supply of pipe by Canadian manufacturers feasible; 48" CAGPL proposal cannot be supplied in total by Canadian Steel Industry

PIPELINE - FROST, FROST HEAVE

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XIX	2186-89	Mar.17	YK	Clark	CAGPL	Operating temperatures; continuous & discontinuous permafrost zones; river crossings; differential heave; preventative measures; surcharging ground surface
	2218			Clark		Test sites; experiments
	2223			Hardy	CAGPL	Calgary Test site; financial costs
XIXA	2239-40	Mar.17		Clark		Frost heave, stresses on pipe
XX	2300-12	Mar.18		Clark	CAGPL	Chilling pipeline in permafrost; water migration in frozen soils, thermal gradients; differential heave; frost heave studies, Calgary test facility; deeper burial; insulation; river crossings; total heave & differential heave; in discontinuous permafrost
	2312-41			Slusarchuk		Slide presentation re: frost heave: CAGPL study, Calgary test facility; depth of burial; apparatus for measuring soil temperature; measuring frost heave; growth of frost bulb; supply of water; low vs. high overburden pressures; application of information; prediction of heave; heave curse; effect of deeper burial, water table level; timing of frost heave
	2342-43			Morgenstern		Increasing overburden pressure to control frost heave
	2394			Clark		Culverts used to carry ground water through frost bulb & prevent icings
	2472-76			Mar.19		Clark
XXI	2482			Clark		Active layer above pipe in summer, could conduct water
	2562-2628	Mar.20		Slusarchuk Hardy Clark		Calgary test facility, water table along prime route, frost bulb, frost-susceptible soils, chemical grouting, surcharge, sub-surface drainage, surface flow, frost heave in permafrost, ice dam, icing
XXII	2616-29			Williams Slusarchuk Clark	CAGPL	Sans Sault - frost heave in permafrost, ice ridge - cross drainage, frost bulb: river crossings, ice dam, fish, icing
	2710-14	Mar.21		Clark Slusarchuk	CAGPL CAGPL	Differential heave, stress analysis, remedial measures
XXIII	2724-27			Clark		Environmental impact of frost wall - ground water
	2729-33			Clark		Culverts through frost bulb wall, water freezing
	2747-49			Hardy	CAGPL	Programs - test sites & facilities
	2789-96	Apr.7		Slusarchuk		Frost bulb around pipe within ROW
XXIV	2770-74			Clark		Elevated pipe - frost heave as affects piles
	2857-60			Clark		Vegetation - frost bulb on one side of berm
	3129-50	Apr.9		Slusarchuk		Failure due to heave, maintenance
XXVI	3151			Slusarchuk		Remedial measures for frost heave
	3178-86			Slusarchuk		Frost bulbs in silt and peat, interaction of frozen soil and pipe, pipe warping
	3209-14			Slusarchuk		Monitoring, remedies
	3178			Slusarchuk		Monitoring, remedies
	3215			Clark		Frost heave rather than thaw settlement
	3223-27			Slusarchuk		Utilization remedial measures
	3231-44			Scott Slusarchuk	MVPI	Calgary test site, differential frost heave, frost-susceptible soil, cross-delta, watertable, artesian water, frost front, tilted pipeline
	3251			Morgenstern Slusarchuk Scott Clark	CAGPL	Frost heave prediction, stress history, shear planes, ice lensing, heaving above pipeline, seasonal change
	3377-78	Apr.10		Scott		Geothermal programs, rate, extent of freezing, temperature prediction
	XXVIII	3443-48	Apr.11		Cooper	CAGPL
3452-55						Frost bulb in unfrozen aquifer
XXIX	3564	Apr.14		Slusarchuk		Heave of gauge pairs
XXVIII	3472-75	Apr.11		Clark	CAGPL	Water flow, convection, reduction of frost bulb
	3486-88			Clark		Distortion, culverts
	3556			Morgenstern	CAGPL	Bulb, slope stability, drainage

PIPELINE - FROST, FROST HEAVE (continued)

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XXIX	3584-86	Apr.14	YK	Clark	CAGPL	Monitoring, remedial measures before pipe rises
	3590			Clark		Bulb re: buoyant pipe
	3605-09			Clark		Frost heave problem at Shallow Bay
	3669			Purcell	CAGPL	Mechanical stress analysis, design for movement
	3706			Purcell		Impose bending, maximum allowable curvature
XXX	3723	Apr.15		Price	CAGPL	Frost bulb, differential heave, bending
XXXI	3993-94	Apr.16		Purcell		Buried/above-ground pipeline
XXXII	4064	Apr.18		Purcell		Frost bulb restrains pipe in case of rupture
	4077-87			Purcell		Design - allow for possible curvature due to heave
	4166-67			Holmberg	CAGPL	Influence of frost bulb on fracture propagation
XXXIX	5081-91	May 15		Williams	CAGPL	Culvert through frost bulb to maintain aquatic life
41	5283	May 20		Fielder	CAGPL	El Paso application
	5319			Hurd	CAGPL	Prediction, monitoring
42	5481-86	May 21		Scott	MVPI	Discontinuous zone, first five to seven years
46	6110-17	June 2		Adam	EPB	Problems of chilled pipeline in discontinuous permafrost
47	6299-6313	June 3		Adam		Adequacy of control techniques questioned
53	7154-58	Aug.13	WH	Clark	CAGPL	Potential heave along alternative corridors compared to prime route
54	7473	Aug.14		Weeden	CARC	Operating temperature of pipeline; long range heat balance between surface temperature, size of frost bulb and adjacent soil
	7501-05			Weeden	CARC	Off-shore corridor; sea pipe temperature, soil temperature; frost heave threatens pipe integrity and increases need for repair
55	7605-24	Aug.15		Hughes	CARC	Thermokarst ponds represent previous ground ice and tendency to ice segregation and frost heave; depressions; influence on route assessment
61	8652	Sept.15	YK	Marshall Mirosh	CAGPL Foothills	South of Fort Simpson discontinuous permafrost zone; danger of frost bulb if pipe is chilled in a non-permafrost area
61-A	8701-09			Mirosh		Soil conditions and water table levels conducive to frost heave; studies and mathematical modelling; pipe movement; frost anchors
	8712-27			Panel 5	Foothills	Ditching, bending, bedding, backfill materials; frost heave, soils; slope stabilization; re-vegetation
	8731-55			Glockner	Foothills	Bending stresses due to frost heaving; longitudinal stresses; settlement stresses, buoyancy, backfill and overburden, ice lenses; swamps, up-ward forces
62	8771-72	Sept.16		Mirosh		Limit amount of frost heave; water drainage from ditch; insulation around pipeline
	8791			Glockner		Distance between pipes; two frost bulbs interacting
	8835			Mirosh		Design considerations to forestall frost heave; pipe displacement
	8844-54			Mirosh		Frost heave potential; pipe integrity, consultants and studies; frost heave designs, Fort Simpson, non-chilled pipe, ice-rich soils
65	9531-48	Sept.19		Claridge	Foothills	Problem critical--no final decision re southern point of chilling until more data available; geothermal model; water table; remedies; heave prediction
	9570-86			Claridge		Occurrence of heave - implications in repair work to mound breaks
69	10249-68	Sept.15		Williams	MVPI	Shut-off pressures; NES research; movement of water through frozen soils; pipe curvature; differential uplift of pipe; surface soil weights; drainage
	10284-93			Williams		River crossings; soil temperatures farther north along the line; depth of active layer; heave non-existent on rock; differential heave; flexible pipe and pipe behaviour under pressure
	10307			Williams		Methods to predict quantitatively the amount of frost heave for a chilled pipeline
	10353-70	Sept.25		Williams		Overstressing the pipe; soil/pipe interaction

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PIPELINE - FROST, FROST HEAVE

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70	10589	Sept.26	YK	Lewis	MVPI	Ground water flows across pipeline crossing sites; frost bulb; effect on fish due to decreased ground water flow; size and shape of frost bulb
72	10732-35	Oct.15		Berger		Comparing Dr. Clark's and Dr. Williams' testimonies re: frost heave and pulling forces on a chilled pipe buried in permafrost
	10742-46			Berger		Frost heave in unfrozen soils, river crossings and frozen soils; chilled pipe; shut off pressures; Dr. Williams' testimony; question to Dr. Clark
	10749-57			Lewis		Culverts through frost wall or frost bulb; ground water flow through discontinuous permafrost zones
	10777-812			Adam	EPB	Berger's questions re: Adam's views of Dr. Clark's, Dr. Williams' testimonies; permafrost and ground ice; pipeline drilling
73	10826-970	Oct.16		Frost Heave	CAGPL	River crossings; overland conditions; areas of continuous and discontinuous permafrost; Dr. Williams' testimony; theory, testing and mechanics of frost heave, frost bulbs; pipe design; berm and buoyancy; soil/pipe interaction; terrain conditions; preventive measures; thaw settlement; heaving pressure
75	11082	Oct.20		Berger		Alaskan research on pipeline construction in continuous and non continuous permafrost regions; hot oil pipeline
76	11225-28	Oct.21		Parker Weeden	CARC CARC	Effect of petroleum product spills on frost bulb; methanol
	11298-338			Hughes	CARC	Potential frost heave in thermokarst depressions; soil sensitivity, terrain types
77	11353-57	Oct. 22		Rutter	CARC	Major terrain hazards, fine grained sediments subject to frost heave, collapse caused by melting of ice flowage, slumping, thick organic deposits subject to collapse upon melting and frost heave upon freezing; re: pipeline routing
	11437-40			Rutter		Possibility of slope failure on south side of Ebbutt Hills; high moisture content soils; collapse upon thawing, frost heave upon freezing; speckled bogs
78	11519	Oct.23		Roed	CARC	Bottoms of Great Slave, Great Bear Lakes; freezing depths; possibility of frost heave
	11614-74			Minning	CAGPL	Reading of Phase 2 evidence; permafrost areas, pipeline design; potential for frost heave;
79	11739-40	Nov. 3		Harlan	CAGPL	Techniques to maintain subsurface flow through the frost bulb
80	11816-18	Nov. 4		Clark Harlan	CAGPL	Assessment of thaw settlement and frost heave potential of soils; pipe-soil interaction - impacts on slope stability
	11846-47			Clark		Effect on depth of cover and impact on mound breaks
	11924			Clark		Cost of berm compared with cost of piles to counter-act heave
81	11980-82	Nov. 5		Clark		Contact of chilled line and ground water; ice lens formation; drainage through the frost bulb
82	12163	Nov. 6		Dabbs	CAGPL	Potential for frost heave high if ground frozen
	12176-77			Veale	CYI	Potential for heave along coastal, interior routes
	12180-88			Clark		Thaw settlement; height of active layer; flow through bulb; comparison of routes
	12276-85			Clark		Environmental impact of inhibiting heave; disruption by repair work
84	12534-35	Nov.8		Anthony McCart Harlan	CARC CAGPL	Frost bulb inhibits ground water flow, North Slope rivers
85	12650-52	Nov.12		McCart		North Slope, frost bulb freezing aquifers in rivers
100	15306	Dec.10		Hayden	Foothills	Interruption of sub-surface water flow in rivers by frost bulb; solutions

PIPELINE - FROST, FROST HEAVE (continued)

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101	15451	Dec. 11	YK	Zoltai	CARC	Resulting from freezing pipe, various terrains, problems
	15473-505			Zoltai		Groundwater icings; loading frost bulb in fenland; effects of palsa formation on pipe; disrupting drainage of fenlands; Ebbutt Hills, susceptibility of areas in Hills, west of Hills; ice lensing in fens, palsa formation
	15517-18			Zoltai		Frost-bulb acting as dam in fens
102	15583	Dec. 12		Zoltai		Stresses on pipe, artificial palsa formation
104	15878	Dec. 16		Millen	CARC	Recommendations to the Inquiry re: further studies of passing subsurface flows past pipeline ice bulb
105	16010	Dec. 17		Millen		Effect of frost bulb on water flow
107	16348-50	Jan. 12		Adam	EPB	Drainage problems; subsurface drainage, chilled pipeline; frost heave and frost bulb problems
109	16600	Jan. 14		Thomson	EPB	Cross delta route, no new problem encountered in terms of frost heave, thaw subsidence, bank instability
	16631-32			Thomson		Calculation of frost penetration; heaving problems
	16684			Adam		Need to maintain the Calgary test site
110	16889-91	Jan. 15		Berger Lent	CARC	Surcharging the berm re: frost heave; continuous permafrost
131	19885-86	Mar.17		Clark	CAGPL	Formation of two frost bulbs around twin 36 - inch lines, Delta crossings
132	20034-38	Mar.18		Clark		More potential for frost heave on cross-Delta route
	20069-78			Engineering Panel	CAGPL	Effects of frost bulb on scour of Shallow Bay bottom; heave problems; alternating use of twin pipes; amount of heave
	20103-04			Clark		Some unfrozen areas in Delta give frost heave problem; prevention measures
C-64	7342	June 3	OTT	Van den Heuvel	Citizen	Test problems to predict heaves
162	24958-63	July 13	YK	Carlson	CAGPL	Possible use of steam ditching machine, aid in repairing line breaks; introduction of heat, river crossings, check against heave
C-76	8366-68	Aug 25	DET	A. Liske Berger	Citizen	wear will break pipe; view that effect much greater than companies predict
193	30099-100	Oct 5	YK	Hernandez	EPB	Use of expansion looping to prevent stress from differential heave
199	31487-93	Oct.15		Steeves	CAGPL	Fault in test cells in question of frost heave, CAGPL's position
201	31723-26	Nov.16		Genest	CAGPL	Submission of volume on design, methodology changes relating to latest information on frost heave

PIPELINE - GRADING

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XIX	2211-12	Mar. 17	YK	Williams	CAGPL	Sans Sault test site; grading in the north vs the south
XXXIII	4299-4301	Apr. 21		Dau	CAGPL	Snow removal in permafrost sensitive areas
XXXVIII	4890-91	May 14		Dau		Grading ROW vs snow road
	4968			Dau		Grading crews, housing
	4972-79			Dau		Impact of grading as a means of clearing
46	6104-08	June 2		Templeton	EPB	Severe potential impact from surface disturbance
65	9606	Sept.19		Bauer	Foothills	Bulldozing equipment; mound over ditch line to prevent frost; use of snow roads
66	9653	Sept.22		Kosten	Foothills	Manpower requirements
	9674			Bauer		Grading done only where necessary in advance of construction year
	9696-99			Bauer		Grading of slopes; implications re borrow requirements
	9746-52			Mirosh	Foothills	Number of men required included with clearing figures

PIPELINE - GRADING

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67	9844-53	Sept.23	YK	Mirosh	Foothills	Scheduling; cutting of slopes; employment for northerners
	9940-42			Mirosh		Grubbing of stumps may be required for grading of sideslopes
68	10145-46	Sept.25		Williams	CAGPL	Information & strictures given to contractors re grading
70	10523	Sept.26		Owen	MVPI	River crossing, Kotaneelee River; lowering of bank
	10533-34			Owen		Adjustment of slopes re: Kotaneelee River, Pointed Mountain Line

PIPELINE - INSULATION

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XIX	2201	Mar.17	YK	Williams	CAGPL	Sans Sault test site; wood chip insulation
	2214-15			Williams		polyethylene jackets; aluminum sheeting
XXII	2602-05	Mar.20		Clark	CAGPL	Insulated pipe through frozen area & unfrozen
XXVI	3224-27	Apr.9		Slusarchuk	CAGPL	River crossings, development of frost bulb, non-frost susceptible soils
XXVIII	3482	Apr.11		Clark		Proposed use of insulated culverts through frost bulbs
XXX	3762			Purcell	CAGPL	Above-ground/buried, both need insulation
61-A	8703	Sept.15		Mirosh	Foothills	Ditch materials; depth of ditch; increased overburden
	8707-08			Mirosh		Pipe to be insulated when above ground on bridges to control hydrate formation
62	8772	Sept.16		Mirosh		Insulation to prevent soil freezing
65	9606	Sept.19		Bauer	Foothills	Plastic tape coatings on winter construction
80	11871-72	Nov. 4		McCart	CAGPL	Use of insulation as possible solution to problem of obstructing aquifers at stream crossings
83	12340-42	Nov.7		Dabbs	CAGPL	Use of dead removed tundra mat as insulation to reduce thaw of berm backfill before pipe is active
84	12534-41	Nov.8		Anthony Environmental Panel	CARC CAGPL	Pipe insulation, ground water flow, North Slope rivers
C-35	3394	Oct. 22	LI	Berger		Oil pipeline insulation in Alaska

PIPELINE - LOOPING

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XVII	1898	Mar.13	YK	Anthony Dau	CARC CAGPL	Off -ROW land requirements
XVIII	2037-40	Mar.14		Bayly Dau	COPE/ITC	land requirements; Gibson Pass; revegetation
XXIV	2778-84	Apr.7		Williams	CAGPL	Criteria for decision, effect of 42" pipe
XXX	3774	Apr.15		Purcell	CAGPL	Deferment
	3782			Purcell		North of 60th parallel
	3786-89			Purcell		South of Travallant Lake
	3865-66			Purcell		48" diameter lines, delay looping
XXXI	3915-16	Apr.16		Purcell		Compressor stations, equipment, gas volume
XXXII	4020-29	Apr.18		Purcell		Maximum gas volume before looping
	4040			Koskimaki	CAGPL	Compressor station pad size
	4062-64			Purcell		Protection by burial in frozen ground
	4073-75A			Genest	CAGPL	Possibility of second gas pipeline
40	5200	May 16		Fielder	CAGPL	56 inch diameter pipe for looping, U.S.S.R.
41	5280-81	May 20		Fielder		U.S.S.R. pipeline
42	5555	May 21		Horte	CAGPL	Increasing capacity of pipeline
43	5575-78	May 22		Genest Williams		Manpower requirements
	5646-47			Gibbs	Foothills	Costs, looping
	5652			Gibbs		Additional looping, scheduling
	5674-75			Berger		Looping, length of construction

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44	5720	May 23	YK	Williams	CAGPL	Diagram on the disposition of equipment, materials, pipes - looping (to be prepared)
	5762-64			Horte		Socio-economic impacts
45	5912-25	May 24		Bayly	COPE/ITC	Increasing size of ROW
46	6097-6101	June 2		Berger		Possible 2nd gas pipeline, integral part of project
47	6156	June 3		Wilimovsky	EPB	Further impact on fish
48	6439-49	June 4		Templeton	EPB	Lack information to form opinion yet
49	6531-34	June 5		Horte	CAGPL	Not under active consideration
50	6644-45	June 6		Marshall	CAGPL	Diagram, ROW width
	6669-77			Horte		Timing of construction and looping, new discoveries of reserves
	6700-01			Horte		Possibility of looping between compressor stations
56	7811-12	Aug. 18		Horte		Northern slope reserves, expected effect on need for looping
	7816-			Blair	Foothills	Foothills to elaborate looping needs and details at a later date
	7923-			Blair		To provide a greater gas carrying capacity
57	8084-8107	Aug. 19		Blair		Foothills looping plans, should expansion be necessary
58	8122-28	Aug. 20		Blair		Looping of AGTL pipes by Foothills to accomodate present Alberta gas reserves; potential spare capacity for Delta gas
	8158-61			Blair		Need for looping; environmental impact and assessments; need for a N.E.B. certificate prior to any looping construction
	8174-76			Blair		Foothills view with respect to the environmental impact; river crossings; cross Delta route
	8201-02			Blair		Looping seen as a real possibility
	8273-			Blair		Foothills need to loop if carrying Alaskan gas
51	6785-87	Aug. 11	WH	Hemstock	CAGPL	Supply lines have been sized to avoid the need for looping
	6823			Berger		Early looping of the supply line from Prudhoe Bay; release of naval reserve No. 4
	6831-33			Berger Dau	CAGPL	Build-up time to capacity; need for looping on the Fairbanks Corridor
52	6909-10	Aug. 12	WH	Banfield	CAGPL	Cumulative effects
	6883-6900			Banfield		Appraisal of level of disturbance caused by looping
	6938-43			Banfield		Impact of looping of Cross-Delta line
	7008			Banfield		Implications re: water use
53	7097-7100	Aug. 13		Banfield		Avoidance in sensitive areas by 42" laterals
61	8660	Sept. 15	YK	Mirosh	Foothills	Looping necessary should increased volumes be carried
62	8789-90	Sept. 16		Bauer	Foothills	Space needed along right-of-way for looping
	8810-12			Mirosh		Use of right-of-way for looping; development of the corridor; narrowness of Gibson Gap
	8857			Mirosh		AGTL looping; block valves installed, facility to maintain flow
63	9011	Sept. 17		Mirosh		Size of compressor pads insufficient if pipeline looped
	9073-24			Mirosh		Environmental effects of reopening borrow pits, access roads if looping not accounted for in compressor site acreage
	9054			Mirosh		Use of block valves in looping operation
64	9254-57	Sept. 18		Hushion	Foothills	Future decision to add pressure or loop the line
67	9959-60	Sept. 23		Kosten	Foothills	Distance between pipes in blasting; additional right-of-way or construction area required
	9968			Mirosh		Sewage lagoons to be filled in for expansion in event of looping
	10023			Mirosh		Wharves only required if pipeline looped after completion

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PIPELINE - LOOPING

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68	10084	Sept.24	YK	Mirosh	Foothills	To inquire re reason for block valve arrangement on Westcoast line in B.C.
	10198			Templeton	EPB	Regulatory agency revived when looping commences
78	11515-16	Oct.23		Roed	CARC	Trans Canada line, Rainbow Lake to Calgary to Brandon; pipeline facilities; need for looping
80	11875-78	Nov. 4		Minning	CAGPL	Borrow requirements
81	12007-16	Nov. 5		Hemstock	CAGPL	Environmental impact
	12028			Minning		Borrow requirements for looping
	12084			Minning		Gravel resources required if line looped
88-A	13395-97	Nov.17		Berger		Impact of looping
90	13667-69	Nov.19		Anthony	CARC	Impact being considered by CAGPL panel
91	13884	Nov.20		Gibbs	Foothills	From delta to Caroline
	13893-98			Dau	CAGPL	Mainline, costs
96	14667	Dec.4		Banfield Veale	CAGPL CYI	Future developments unpredictable, need for environmental, social impact assessment, includes looping aspects
97	14741-44	Dec.5		Templeton Hemstock	EPB	Looping, consideration in impact assessment of pipeline
	14772			Templeton Hemstock		Separate impact assessment required
98	14881-82	Dec.8		Scott Hemstock	MVPI	Local looping to utilize DEW line sites as compressor stations
	14964-67			Berger Marshall	CAGPL	Time span after first pipe, impact on caribou; mainline
105	15992	Dec. 17		Millen	CARC	Long-term operation of wharf-sites as a result of possible looping of pipeline
107	16321	Jan. 12		Craik	EPB	Unless of comparable scale to the first construction operation, not likely to require pipeline authority to operate during looping activities
108	16440-41	Jan. 13		McT-Cowan	EPB	EPB has not studied looping
	16535-55			Templeton Berger Marshall	EPB CAGPL	Arctic Gas intention to loop; impact of looping, scheduling; corridor concept, cumulative effects; recommendations re: timing of looping
109	16631-32	Jan.14		Thomson	EPB	Lag time required for looping; frost penetration; heaving
C-25	2515-18	Sept. 8	FS	Hammond Berger Workman	Citizen CAGPL	Construction of second, third pipelines - land demands
C-30	2922-27	Oct. 6	PP	Mirosh	Foothills	Methods, costs
131	19977	Mar.17	YK	Purcell	CAGPL	Possible looping south of Tununuk Junction to remove flow restriction caused by moving station CD-08
132	20126	Mar.18		Purcell		Looping on mainline to allow for moving compressor station DC-08
133	20192-95	Mar.23		Environmental Panel	CAGPL	Looping possibility not always included in studies of cross-Delta route
181	28058-59	Sept 8		McCambly Bayly	MVPI COPE/ITC	Possibility of CAGPL Proposal needing looping in ten years, environmental affect
193	30231-32	Oct.5		Doyle	EPB	Agency supervision of looping not considered in report
202	32062-64	Nov.17		Anthony	CARC	Environmental impact of looping not studied

PIPELINE - LOWERING IN

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XXXIII	4356-57	Apr. 21	YK	Dau	CAGPL	Pipe laid to conform to ditch contour
65	9608	Sept.19		Bauer	Foothills	Coating preceding lowering
130	19836-37	Mar.16		Williams	CAGPL	Shallow Bay, techniques of lowering pipe into trench
131	19958	Mar.17		Williams		Time to pull pipe into Shallow Bay trench
	19986			Williams		Shallow Bay crossing
	19993-94			Williams		Dangers of winter construction, Shallow Bay
195	30652-55	Oct.7		Walker	CAGPL	Rate controlled by welding rate

PIPELINE - OPERATIONAL AND MAINTENANCE PHASE

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XXVI	3233-35	Apr. 9	YK	Slusarchuk	CAGPL	Projected pipe operation, twenty-five years
XXVII	3345	Apr. 10		Scott	MVPI	Repair questions
	3401			Slusarchuk		Maintenance phase, operating test section, Sans Sault
	3430-31			McRoberts	CAGPL	Ice wedge
XXIX	3696	Apr. 14		Purcell	CAGPL	Corrosion and external damage post-construction
XXX	3724-25	Apr. 15		Price	CAGPL	Mechanical bending cause of further stress
41	5313-14	May 20		Hurd	CAGPL	Frequency of line breaks
42	5566-69	May 21		Hurd		Fully loaded system, future looping
46	6105-06	June 2		Templeton	EPB	Greatest potential impact occurs with rupture
C-4	217-218	May 28	Hay River	Williams	CAGPL	Workers required, Hay River
	324-325			Workman	CAGPL	Number of workers required
52	6884	Aug. 12	WH	Banfield	CAGPL	Source terrain information for looping
61	8686-90	Sept. 15	YK	Mirosh Hensch	Foothills Foothills	Chiller outage; particular station horsepower cut back; reduction in throughput; oposite effect of Joule-Thompson; heat exchange rate; limited range of propane flow
62	8814-15	Sept. 16		Mirosh		Compressor stations; spacing between stations; flexibility in horsepower units and spacing; movement of stations for environmental and social reasons; appraisal and final design stage
	8825			Mirosh		Cleared right-of-way; revegetation; soil stabilization to maintain the permanent right-of-way and restore the area used during the construction phase
C-36	3508-09	Jan. 29	In.	Workman		District offices - manpower requirements
142	3514-15			Mainland	GPC-D	Staff requirement, Nortran program
142	21543	April 13	YK	Giroux	Nortran	Nortran students mainly to work on this phase
	21563			Virtue	Nortran	Nortran trainees for this phase
	21602-04			Virtue		Continuation of trainees in the Nortran program until operations begin
	21655-59			Virtue		Nortan training program
165	25517	July 19		Ellwood	Foothills	Social impact not as great as construction phase; operations personnel will move into communities gradually
186	28829-31	Sept 16		Basham	MVPI	Union involvement in operations and maintenance
197	30990-91	Oct. 13		Bergasse	MVPI	Services to maintain pipeline facilities, entrepreneurial opportunity

PIPELINE - PRE-START UP PHASE

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XIXA	2262-63	Mar. 17	YK	Clark	CAGPL	Safety and stability of pipe; thawing
	2271-			Clark		Burial; potential buoyancy; problems
XXIV	2825-26	Apr. 7		Clark		Use of ditch plugs before gas flows to prevent erosion
XXVI	3216-17	Apr. 9		Clark		Period before chilling begins, permafrost
XXVII	3433	Apr. 10		McRoberts	CAGPL	Ditching, backfill
XXVIII	3550-51	Apr. 11		Morgenstern	CAGPL	Analysis slope stability, construction
XXIX	3582-83	Apr. 14		McRoberts		Pipe temperature and movement
	3590			Clark		Transient buoyancy problem
XXXII	4099	Apr. 18		Reid	CAGPL	Effectiveness of cathodic protection before chilling pipe
41	5313-16	May 20		Hurd	CAGPL	Statistics for frequency of pipeline breaks
42	5434-35	May 21		Hurd		Purging pipeline sections
62	8771-72	Sept. 16		Mirosh	Foothills	Design steps to limit frost heave; construction scheduling
	8786(i)-88			Glockner	Foothills	Determination of yield amount; pipe installation temperature; pipeline operation temperature hoop-stress; axial stresses
	8851-52			Mirosh		Research; impact on environment, frost heave
63	8972	Sept. 17		Mirosh		Refrigeration units installed

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64	9235-40	Sept.18	YK	Hushion Holtsbaum	Foothills Foothills	Atmospheric corrosion of pipe while it is stockpiled
75	11096-97	Oct.20		Parker Weeden	CARC CARC	Great propensity of soil thaw if the pipe is left empty for a long length of time prior to use; pipe to be refrigerated during the first thaw cycle

PIPELINE - PROJECT COST

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XV	1665	Mar.11	YK	Dau	CAGPL	Cost with regard to location, selection
XVIII	2122-23	Mar.14		Berger		Prime route vs interior route costs
XXX	3808	Apr.15		Purcell	CAGPL	Reinforcing bands
XXXII	4164	Apr.18		Koskimaki	CAGPL	Economic consequences of silencing compressor stations
43	5621-36	May 22		Horte	CAGPL	Transportation costs, M.C.F. mile method
	5646-47			Gibbs	CAGPL	Costs, looping
	5699-5705			Gibbs		Cost of steel, rolling mill capacity, fabrication of fittings
44	5852-58	May 23		Horte		Cost of facilities; community service
45	5921-22	May 24		Horte		Costs of environmental damage, repairs
	5948-49			Bayly	COPE/ITC	Buying pipe outside of Canada
	5964-65			Horte		7 billion dollars for entire project
48	6330	June 4		Templeton	EPB	\$42 million invested in all aspects of project
49	6471-6504	June 5		Horte		Total unescalated cost - MCF mile method
	6520-24			Horte		Cross delta route change - cost saving
	6531-35			Horte		Looping not essential to economic viability of project
	6586-90			Horte		Difference in 42" and 48" supply laterals
50	6653-62	June 6		Horte		Capital cost of construction re: spreads
	6727-32			Horte		Contractors - bids, cost plus
C-5	442-446	May 29	Hay River	Berger		CAGPL-largest single undertaking, private enterprise
56	7806-10	Aug.18	YK	Horte		Preliminary major expenses; precommitments in construction of transportation equipment re: construction and scheduling; costs of engineering, environmental, geotechnical and socio-economic studies and test facilities
	7820-24			Horte		Costs reflect the use by CAGPL of the Mackenzie Highway completed to Fort Good Hope
	7840			Horte	CAGPL	Cross delta route provides a construction cost saving
	7872-75			Horte		Cost of up-grading and building aircraft landing sites and facilities; interest and inflationary costs
60	8578-80	Aug. 22		Scott Mirosh	MVPI Foothills	Yellowknife to Pine Point community service lateral similar to lines in northern Alberta; fieldwork yet to be undertaken will effect costs
51	6798-6803	Aug. 11	WH	Hemstock	CAGPL	Costs of alternative routes; preliminary cost estimates; capital cost, operating costs; tariffs
	6825-26			Marshall	CAGPL	1974 capital cost estimate for the prime route
	6827			Hemstock		Edge of the shield corridor; information on capital costs, operating and maintenance costs
	6846-72			Dau	CAGPL	Capital cost estimates per route and alternative corridors within Canada and Alaska; gas flow; indirect costs; interest; inflation; tariffs; base case escalated cost; annual operating cost; mile and flow differences; community laterals; financing
52	6941-43	Aug. 12		Dau		Cost of looping of cross-Delta and prime route proposals
	6960-64			Marshall Gibbs	Foothills	Disagreement re uniform cost analyses of alternate and prime routes
	6975-87			Dau		Comparative cost of material transport
53	7057-59	Aug. 13		Berger		CAGPL to present detailed alternative route costs

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53	7134 7144-53	Aug. 13	WH	Trusty	CAGPL	Cheaper cost of prime route
				Trusty		Alternatives ranked in economic aspects
C-21	2112-21	Aug. 9	NW	Blair Carter	Foothills CAGPL	Comparative costs - reserve estimates
C-21	2211-12			W. Fraser	Citizen	Profits accruing to oil companies
C-22	2277-80	Aug. 11	WH	Berger		Feasibility of gas to communities
C-23	2334-41 2357-58	Aug. 14		R. McCandless Berger	Citizen	Demands toll tariff for land use Capital investment in the pipeline
61	8629 8648 8656-59 8691-93	Sept. 15	YK	Mirosh Hensch Gibbs Marshal	Foothills Foothills CAGPL CAGPL	Costs include pipe and compression re: installation, operation and maintenance 42 inch pipe is more economical; safety factor increases cost of service; gas cost affected Cost of trim heaters; sized; cost of service as affected by pressure and volume carried
				Bayly Mirosh Lazerte	COPE/ITC Foothills	Cost of service; flow rate
62	8775-76 8811-12	Sept. 16		Bauer Mirosh	Foothills Foothills	Cost of saddle weights; logistics, cost estimates; construction cost estimates Cost of installation of valves should future corridor development require safe-guard
63	8996 9183-99	Sept. 17		Beer Hushion	Foothills Foothills	Turbines are light and compact hence a cost saving achieved re: size of compressor stations, back-fill and foundations required; transportation costs lower Fluctuation of Japanese prices; quotations from offshore and Canadian metallurgical price considerations; pipe suppliers; cost of crack arrestors
64	9233 9360	Sept. 18		Hushion Mirosh	Foothills Foothills	Offshore pipe suppliers' cost; money involved in delivery delays Cost projections of drainage & erosion, buoyancy measures deferred to Bauer on construction panel
66	9648-49 9771-76	Sept. 22		Kosten Kosten	Foothills Foothills	Responsible for costing the schedule of construction Cost of blasting; amounts of backfill & select fill
67	9898-99 9901-05 9923	Sept. 23		Mirosh Kosten Mirosh Kosten		Economic impacts of lengthening the construction schedule Proportion of wages paid in overtime Costing of mainline spreads & Parson's Lake lateral
68	10101 10130-31 10170-73 10175-78 10182-83 10189-93 10208-10	Sept. 24		Hushion Dau Genest Genest Hollingworth Templeton Templeton		Highway as savings to construction Cost estimates by pipeline contractors Comparable cost figures relating to the line segments of Fairbanks alternative routes & prime route - request to resume discussion Problem of presenting indirect costs of route comparisons; segmentary basis Computerizing cost estimates of CAGPL Cost of delays if shutdown ordered; performance bonds Application of performance bond
70	10529-31	Sept. 26		Owen	MVPI	Pointed Mountain; performance bond for rehabilitation work
72	10726-29	Oct. 15		Longlitz	MVPI	Cost of restoration is high re: vehicle damage due to insufficient snow cover and frost penetration
73	10919-20 10963	Oct. 16		Clark Morgenstern	CAGPL CAGPL	Cost of an elevated pipeline; costs of Alyeska Research and costs re: soil stability investigations

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74	11010-11	Oct.17	YK	William	CAGPL	Waiting for cost penetration adds to costs
76	11192-98	Oct.21		Weeden	CARC	Cost of Alyeska in terms of increased personal and community taxation, need for increased social services, facilities and infrastructure; Alyeska Company bearing of costs; well-head oil prices
	11207-10			Weeden Parker	CARC	Alyeska costs; changes due to national and local inflation
	11245-47			Marshall Berger	CAGPL	Total capital costs, Mackenzie Valley Corridor and Line, Fairbanks Corridor and line
77	11368-74	Oct.22		Rutter	CARC	Cost reflected in type of terrain crossed, facilities ie. roads, infrastructure to be built; environmental impact
	11325-28			Rutter		East of the Franklins route, increased costs due to distance from river, highway
	11483			Roed	CARC	Logistics; increased costs re: transportation of pipe to the staging areas; location of gravel deposits; supply of gravel
78	11564-64-B	Oct.23		Roed		Logistics; costing; transportation of men, materials, equipment; winter roads
	11506			Berger		Segmented cost break down comparing Fairbanks route to Mackenzie Valley route
81	12083	Nov. 5		Williams	CAGPL	Royalty payments for gravel use
83	12355	Nov. 7		Scott	MVPI	Location of borrow sites as economic consideration
85	12695-700	Nov.12		Hemstock	CAGPL	Hydro-electric power for compressor stations
86	12971-75	Nov.13		Lawrence	Foothills	Sewage equipment, bulk buying with communities
	13058			Berger		Investors will pay for project
87	13084	Nov.14		Bayly Reeves	COPE/ITC Foothills	Stopping work for archaeological reasons costs money
88	13275	Nov.17		Berger		Increased cost if pipeline built over four years
88-A	13362	Nov.17		Hemstock		Costs of environmental project
89	13516	Nov.18		Banfield	CAGPL	Cost/benefit analysis unacceptable for impact assessment
	13543-44			Dabbs	CAGPL	Cost of clearing right-of-way
90	13732	Nov.19		Gibbs	Foothills	Cost of CAGPL environmental program
91	13787-89	Nov.20		Berger		CAGPL chose cross delta route to save money
	13845-92			Dau	CAGPL	Capital costs of pipeline
	13893-98			Dau		Cost, Fairbanks versus prime routes
95	14417-23	Dec. 3		Hemstock		Work stoppages - delays cost money; critical path model; environmental concerns; alternate methods, scheduling
96	14658-67	Dec.4		Banfield Marshall Veale Jakimchuk Hemstock	CAGPL CYI CAGPL	Posting of a bond to ensure herd maintainance; gas company's responsibility; security bond; recommendations to the Inquiry
98	14878-81	Dec.8		Gunn	CAGPL	Using old DEW line sites for compressor stations
105	16014-17	Dec. 17		Walker	CARC	More money spent than in Northern Yukon re: research
108	16447-55	Jan. 13		McT-Cowan	EPB	Posting of a surety bond, EPB position that the bond be 1% of the capital costs
C-25	2489-511	Sept. 8	FS	Erion Dixon Rutherford Workman Black	NWT CC NWT CC Foothills CAGPL Citizen	Four year construction schedule; resource royalties, applicant subsidization of municipal services; lead time required by Fort Simpson re: land use planning, construction of housing, water and sewage, education facilities
C-27	2746-60	Sept. 10		Rutherford Workman		Financing re: Canadian funds; government guarantee; investment in company by native organizations, shares; financial houses; possibility of government subsidization
C-30	2928-30	Oct. 6	PP	Mirosh Berger	Foothills	Gas, oil pipeline costs
	2940			Carter	CAGPL	Total cost, percent spent in Canada
	2952-53			Chalmers Mirosh Berger	Citizen	Rate of return for pipelines, feeder lines - fuel cost savings

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C-30	2970	Oct.6	PP	Berger		Project cost vs. MVPI cost
C-33	3124-32	Oct. 9	FS	Beatty Mirosch Carter	Citizen	Summary of proposed cost, Foothills and CAGPL
C-38	3625	Feb.12	In	Burrell	Foothills	Costs of Foothills, CAGPL projects
C-39	3753	Feb.18		Berger		NEB's role in determining cost of project
131	19937	Mar.17	YK	Williams	CAGPL	Estimate of gravel road cost, Prudhoe Bay - Fort McPherson, done in 1972
	19943			Gibbs Williams	Foothills	Reduced efficiency due to cold increases costs
	19950-51			Williams		Possible costs due to delays, costs of summer construction, North Slope
	19995-96			Williams		Barry route versus circum-Delta route
132	20015-16	Mar.18		Williams		Cross-Delta route cheaper than old prime route
	20036-37			Williams		Cost only meaningful end-point in engineering analysis of alternative routes
	20040-45			Purcell	CAGPL	Cost of intermediate block values, savings by not using; extra cost of using DEW line sites as compressor stations
	20113-26			Purcell		Costs of moving compressor station CD-08
135	20562-63	Mar. 25		Scott Marshall	MVPI CAGPL	Cost of moving compressor station CD-08
137	20826-37	April 5		Davies	MVPI	Dollar costs of disruption
C-53	5522-29	May 14	CAL	Nickle	Citizen	Cost of exploration and development
C-55	5755-56	May 18	EDM	J. Paschen	Citizen	Cost has risen from 2.7 to 7.5 billion
C-60	6620	May 27	TOR	E. Burton	Citizen	Inflation, increase in cost if project delayed
	6754-55			V. Horte	CAGPL	Government, involvement in financing
C-68	7867-68	July 16	FP	Erian Wirth	Citizen CAGPL	Cost of developing Axe Point as major staging area; cost of connecting road
181	28052-55	Sept 8	YK	McCambly	MVPI	Favouring CAGPL proposal, see US aid essential for financing
	28116			Reimer	MVPI	Five to ten billion dollars, biggest project even in Canada.
196	30874-85	Oct.12		Berger Thompson Skinnarland	CARC CARC	Enormous cost of project, government's guarantee, effect on enforcement; project costs more than estimate, reasons
203	32148-50	Nov.18		Veale	CYI	Associated costs related to pipeline development carried by applicant; impact funding before construction for community programs; performance bonds
204	22289-90	Nov.19		Ballem	GPC-D	All costs to company is not fair; how costs should be assigned
	32308			Parker	NWT Govt	Allocation of costs to company

PIPELINE - RIGHT-OF-WAY

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XVI	1865-68	Mar.12	YK	Dau	CAGPL	Width of ROW; ROW and off-ROW land requirement
XVII	1895-98	Mar.13		Anthony Dau	CARC	Width, access roads at river crossings; looping
	1931-44			Bell Williams	NWTIB/MA CAGPL	Status of land required; location on traplines
XXIII	2726-27	Mar.21		Clark	CAGPL	Restoration of downstream effects of frost barrier, erosion
XXIV	2791-93	Apr.7		Clark		Frost bulb within ROW
XXVII	3400	Apr.10		Slusarchuk	CAGPL	Predicting ground temperatures
XXVIII	3544	Apr.11		Scott	MVPI	Potentially unstable slopes
XXXIII	4262-63	Apr. 21		Dau		Use Mackenzie Highway when possible
	4299-4301			Dau		Grading, snow removal-Arctic and conventional methods
	4305-06			Dau		Use of snow roads for access and traffic lane
	4336			Dau		Both sides flagged prior to clearing

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XXXV	4553	Apr. 23	YK	Dau	CAGPL	Movement of equipment from one camp to another
XXXVII	4816-21	May 13		O'Rourke	CAGPL	Revegetation, seeding
XXXVIII	4830-33	May 14		Williams	CAGPL	Snow harvesting, fences
	4895-97			Lucas	CARC	120 feet wide, working lane, traffic lane
	4946-52			Goudge	MVPI	120 feet wide
	4958-76			Williams		Clearing by hand
	4980-81			Williams Goudge		Clearing slopes
XXXIX	5051-52	May 15		Dau		Airstrips adjacent to ROW
	5140-54			Harlan	CAGPL	Stabilization due to revegetation, off ROW dikes
40	5216-17	May 16		Hurd	CAGPL	Helicopters, landing on ROW
	5228-32			Hurd		Maintenance procedures; seeding
	5260-62			Hurd		Fires crossing or initiated on ROW; portable fire extinguishers; travel
41	5305-07	May 20		Fielder	CAGPL	Vehicles, slope gradients
	5325-26			Lucas	CARC	Movement off ROW
42	5396-98	May 21		Hurd	CAGPL	Foot patrols, checking for damage, line breaks
	5406-07			Hurd		Fire, erosion, repair measures
	5472-79			Hurd		Fires, crossing ROW
	5496-5500			Hurd		Monitoring, permafrost
	5571			Genest		Additional ROW, looping
44	5759-64	May 23		Horte Bell	CAGPL NWT IB/MA	Easement, width of ROW
45	5894-5898	May 24		Horte		Acquiring ROW, landowners
46	6102-18	June 2		Adam	EPB	Subsidence impact on surface stability
	6124-47			Bliss	EPB	Severe potential impact on vegetation
47	6288	June 3		Templeton	EPB	Protection from both on and off ROW activities
50	6644-45	June 6		Marshall	CAGPL	Width of ROW in event of looping
51	6796-97	Aug. 11	WH	Hemstock	CAGPL	Susceptable to erosion, repairs, seasonal occurrence
52	6889-91	Aug. 12		Banfield	CAGPL	Pipeline/highway interaction
53	7178-83	Aug. 13		Joe	CYI	Corridor development after gas pipeline
54	7514	Aug. 14		Weeden	CARC	Fairbanks corridor; use of existing gravel pads of the Alyeska right-of-way
	7522-23			Parker	CARC	Valdez to Prudhoe right-of-way granted by federal government, Trans-Alaska pipeline right-of-way, state highways right-of-way
C-20	2056	Aug. 7	FGH	M. Cutchilly	Citizen	Extent of land use
61A	8701	Sept. 15	YK	Mirosh	Foothills	Foothills proposes a smaller permanent right-of-way (60 feet wide), construction right-of-way only temporary
62	8766-67	Sept. 16		Mirosh		Width; permanent right-of-way, construction use of right-of-way
	8789-90			Mirosh Bauer	Foothills	Looping room available in existing right-of-way space; looping space
	8823-29			Mirosh		Right-of-way width, lease or ownership of the right-of-way; use of right-of-way - construction and permanent; clearing of the right-of-way; operation and maintenance; erosion control; revegetation; soil stabilization, property tax; environmental impact
	8837-44			Mirosh		Width of construction zone at river and waterway crossings; construction equipment; highway vehicles; grade considerations; access to right-of-way
64	9436-37	Sept. 18		Claridge	Foothills	Slope studies encompassed 10-mile corridor on east side of Mackenzie
65	9610-11	Sept. 19		Bauer		Reasons for clearing a year before construction
66	9674-99	Sept. 22		Bauer Mirosh		Clearing in advance of construction; use of shoo fly roads; avoidance of bottlenecks; terrain typing exposure of permafrost areas; roads along right-of-way

PIPELINE - RIGHT-OF-WAY (continued)

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67	9911-14	Sept.23	YK	Mirosh Kosten	Foothills Foothills	Clearing schedule; right-of-way & working surface required for Yellowknife & Pine Point laterals
	9960			Mirosh		Requirements in area for looping
68	10086-87/8	Sept.24		Hushion	Foothills	Total acreage requirements of Foothills & CAGPL
	10095			Mirosh	Foothills	Use of right-of-way as roadway
70	10508-16	Sept.26		Owen	MVPI	Pointed Mountain Line; repair of damage
	10532-34			Owen		Width at the top of Kotaneelee Bluff; testings; slope adjustments; Pointed Mountain Line
71	10609	Oct.14		Templeton	EBB MVPI	Procurement of snow for roads from the right-of-way
72	10714-15			Bell Longlitz	NWTIB/MA	Section 3, land use regulations re: surface rights; land tenure; ownership of the right-of-way; control
	10718-31			Marshall Longlitz	CAGPL	Access to right-of-way; use of all-terrain vehicles, impact on ice rich soils; depth of compacted snow on the right-of-way; frost penetration induced
73	10962-70	Oct.16		Morgenstern	CAGPL	Slides which could occur along the right-of-way; research
74	10973-11013	Oct.17		Williams	CAGPL	Use of right-of-way as access to construction areas; snow roads; impact on right-of-way shut down and start-up dates of snow roads; frost penetration; snow cover; all-terrain vehicles
76	11144-179	Oct.21		Parker Weeden	CARC CARC	Alyeska and Fairbank's rights-of-way slightly divergent
	11179-206			Parker Weeden		Alyeska experiences; Alyeska haul road
	11215			Parker		Transfer of land frozen, re: securing land for right-of-way of Trans-Alaskan Pipeline
	11223			Parker		Winter road construction and use; duration of use
77	11483	Oct.22		Roed	CARC	Edge of the shield; suitability to a hot oil pipeline; transportation of equipment and materials to the right-of-way
78	11614-74	Oct.23		Minning	CAGPL	Reading of Phase 2 evidence, land requirements re: right-of-way clearing, construction requirements; compressor stations; revegetation and restoration of right-of-way
79	11679-80	Nov. 3		Harlan	CAGPL	Acreage requirements
80	11848-50	Nov. 4		Hemstock	CAGPL	Land requirements; impact area
	11947-50			Dabbs	CAGPL	Restoration by revegetation; prevention of thermokarst
82	12223-35	Nov. 6		Hemstock		Travel over and non-pipeline use of right-of-way
	12245-56			Hemstock		Costs of building over right-of-way easement; contractual agreements; regulatory responsibilities
83	12405-07	Nov. 7		Scott Williams	MVPI CAGPL	Stockpiling maintenance gravel on right-of-way, Thunder River
	12511-14			Scott Williams		Disposal of excess spoil material on right-of-way; seeding
84	12526-32	Nov.8		Anthony Environmental Panel	CARC CAGPL	Excess spoil material onto right-of-way; near river crossings, erosion control
87	13167	Nov.14		Marshall Reeves	CAGPL Foothills	Archaeological surveys, aerial
90	13582-83	Nov.19		Dabbs	CAGPL	Effects of clearing right-of-way on snow depths
94	14341-59	Dec.2		Jakimchuk Hemstock	CAGPL CAGPL	Construction activities and scheduling; harrassment of caribou or other mammals away from the right-of-way; danger of open trench, passage of animals
96	14640-44	Dec.4		Jakimchuk		Use of the pipeline right-of-way by caribou re: migration routes; climatic factors; deflection; use of a snow road, seismic line; Parkin Camp airstrip

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97	14723 14742-44	Dec. 5	YK	Bell Hemstock	NWT IB/MA CAGPL	Vehicular traffic as disturbance to moose Looping will use same right-of-way; possibility of new impact assessment
98	14983-91	Dec. 8		Jakimchuk Gunn	CAGPL CAGPL	Restrictions on human activity during construction, on highways, hunting
99	15029-33 15092	Dec. 9		Jakimchuk Hemstock		Animal use; hunting, trapping; surveillance Northern Yukon, archaeological reconnaissance
100	15274-79 15374-76	Dec. 10		Bouckhout Whitney Whitney	Foothills Foothills	Differences from CAGPL's route, similarities ROW as additional habitat for mammals, effects unknown
101	15465-66	Dec. 11		Zoltai	CARC	Effects of width of ROW on terrain
102	15698-700	Dec. 12		Novakowski	CARC	Increasing mammal population, trapping
103	15771 15793	Dec. 15		Steigenberger Millen	CARC CARC	On Rat River re: overflow water Environmental design - access road clearing beyond right-of-way
106	16162-64 16234	Dec. 18		Lent Calef	CARC CARC	Environmental impact re: delay of right-of-way construction on Alyeska pipeline Experiments re: effect of aircraft disturbances on caribou
108	16496-506 14546-47	Jan. 13		Adam Templeton Bliss	EPB EPB EPB	Erosion, thaw settlement, depression; snow roads Looping on the same right-of-way; looping in a previously disturbed area, crossing a previously disturbed area
109	16641-48	Jan. 14		Environ. Panel Berger	EPB	Aesthetics; judgement of aesthetic loss; air or ground perspective; revegetation
110	16867-68 16877-80 16887-91	Jan. 15		Calef Bergerud Carter Lent Berger	CARC CARC CAGPL CARC	Hunting on pipeline right-of-way, no hunting zones; restricted access Woodland caribou, adaptation to pipeline; habitat change Barrier to caribou; berm; caribou crossings
C-25	2515-18	Sept. 8	FS	Hammond Workman	Citizen CAGPL	Extension re: second, third pipeline construction
C-29	2873	Sept. 12	JMR	Lafferty	Citizen	Physical aspects re: not much land required
115	17576	Jan. 23	In	Stamberg	GPC-D-G	Parsons Lake gas field, possible use of timber cleared from pipeline ROW for pilings
132	20099 20151-52	Mar. 18	YK	Williams Williams	CAGPL	Where twin pipes are constructed ROW is 170 feet wide Clearing in summer by hand spreads A, B, C
144	21909-11	April 15		Sanders	NWT IB/MA	Future negotiations with Indian regional bands; transfer of land title
C-63	7095	June 1	MTL	Hughes	Citizen	Conditions re environment would be attached to the granting of the ROW
196	30779-81	Oct. 12	YK	Skinnarland	CARC	Ineffective lead times in Alaska right-of-way agreement

PIPELINE - SPECIFICATIONS

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XXI	2498-2500 2511-14	Mar. 19	YK	Williams	CAGPL	48" pipe; used elsewhere in Canada 48" pipe; 36" used for cross delta route; size of pipe at dual river crossings elsewhere; buoyancy of pipes
XXIV	2779-80	Apr. 7		Williams		Possible use of 42" rather than 48" lines
XXIV-A	2931-32			Morgenstern		Size of pipeline generates risks
XXVI	3231-42 3268	Apr. 9		Slusarchuk Slusarchuk	CAGPL	40 foot pipe lengths 6 inch diameter pipe, 1 inch insulation, water drainage
	3324 3328			Williams McRoberts	CAGPL	Testing, 80 foot pipe lengths 42 inch diameter pipe

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XXIX	3574	Apr. 14	YK	Clark	CAGPL	Buoyancy of 48" vs 20" pipe
	3647			Purcell	CAGPL	Systems configuration - pipe size
	3651-55					Manufacture - material specifications
	3666-66A					Large diameter pipe - stress levels
	3671					Design of material specifications
	3679			Reid	CAGPL	48" test head with water valves
	3681-83			Purcell		Metallurgical concerns for pipe and welding
	3695					Wall thickness
	3699					Grade 70 pipe - tested for fracture control
XXX	3717-20	Apr. 15		Price	CAGPL	Steels, brittle ductiles, wall thickness, 48" diameter
	3757			Purcell		Components, materials
	3763			Purcell		Above-ground, large volume production
	3774-81			Purcell		48" diameter/42" alternative
	3800-05			Purcell		Materials readily available, 48" pipe, grade of steel, wall thickness
	3806-13			Purcell		Reinforcing
	3814			Purcell		Steel, length, width, chemical composition
	3838-46			Holmberg Purcell	CAGPL CAGPL	Testing, reinforcing bands, steel
	3855-60			Holmberg		Wall thickness, 40 foot joints
	3866			Purcell		Availability of pipe
	3869-70			Purcell		Size, wall thickness
XXXI	3885	Apr. 16		Purcell		Pipe, lead time ordering materials needed
	3917-22			Koskimaki	CAGPL	Above-ground pipe, Alaska, wall thickness
	3953-57			Anthony	CARC	Testing, manufacturers, Stelco
XXXII	4037-39	Apr. 18		Purcell Holmberg		Chilled pipe - lower design temperature Rolling process for low temperature pipe
	4076-80			Purcell		CAGPL provides specifications
	4099-4100			Reid	CAGPL	Application of protective coating
	4161-63			Purcell		Decision of pipe size - studies
	4047-52			Purcell		Pipe supply and suppliers - advance ordering time
XXXIII	4254-58	Apr. 21		O'Rourke	CAGPL	Pipe origins - Canada
	4275-79			O'Rourke		Origin of pipe affects logistics of barging equipment
	4283			Dau	CAGPL	Control design and installation before contracting
	4294			Dau		Pipe size classification - large diameter spreads
	4328-30			Dau		Double jointing 40 foot pipe
XXXIV	4453	Apr. 22		Williams		40,60 feet lengths, weight slightly less than 4,000 pounds
	4463-64			Dau		Construction contractors
	4509-10			O'Rourke		Canadian and off-shore pipe
	4539-41			O'Rourke		Pipe lengths - 40,60,80 feet, pre-built joints
XXXV	4544-50	Apr. 23		O'Rourke		Pipe weight by length, reinforcing bands
	4571-73			Dau		Welds for 48" pipe
	4579			Dau		Diameter and wall thickness affects weld requirements
	4593-4600			O'Rourke	CAGPL	Best shipping route if Japanese pipe used
XXXVII	4716-17	May 13		O'Rourke		138 miles of pipe, for Yukon portion
	4786-87			O'Rourke		Possible manufacture sources
	4801			O'Rourke		Lengths of pipe, transportation on flat cars
XXXVIII	4915	May 14		Lucas	CARC	Temperature constraints on welding
	4946-47			Goudge	MVPI	ROW - 80 feet long pieces of pipe
XXXIX	5084-90	May 15		Williams	CAGPL	Length of culvert pipe
	5172-74			Dau		Possible strikes in manufacturing cause delay
40	5200	May 16		Fielder	CAGPL	U.S.S.R., 28 inch, 48 inch diameter lines
	5247-48			Hurd	CAGPL	30 inch, 42 inch diameter pipe, rupture frequencies
41	5277-81	May 20		Fielder		U.S.S.R. pipeline - 221 miles long
	5316-18			Carlson	CAGPL	80 foot lengths of pipe for railroad shipment
	5346			Fielder		U.S.S.R. pipe diameters - 28", 20", 10"

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42	5408-09 5544-48	May 21	YK	Fielder Genest	CAGPL CAGPL	U.S.S.R. - 48, 56 inch diameter pipe 48 inch diameter pipeline
43	5655-61 5684 5695-5705	May 22		Horte Gibbs Gibbs	CAGPL Foothills Foothills	Reserves, volumes, pipeline diameter Line sizing, supply and demand for gas 48 inch diameter, oversizing
45	5909-18 5939-49	May 24		Bayly Bayly Horte	COPE/ITC	Sizing, gas transportation Supply, lead time; Stelco rolling capacity, foreign suppliers
49	6585-91	June 5		Horte		Oversizing for economic and environmental reasons, thickness
50	6646	June 6		Horte		Pipe used in Battelet tests
C-4	214-216	May 28	Hay River	Williams	CAGPL	80 ft. lengths, double jointing
C-5	466-468	May 29		Hushin	Foothills	Pipe manufacture in Canada
C-11	1033	July 8	F. McP.	Elwood	Foothills	Wall thickness, operating pressure
56	7921-23 7942-43	Aug. 18	YK	Blair Blair	Foothills Foothills	Pipe size and market demand; looping to increase capacity and compression 42-inch pipe can be manufactured in Canada; Arctic gas to use foreign manufactured pipe
57	7966-77	Aug. 19		Blair		Given Alaskan and Canadian reserves the 48-inch pipe is recommended; the 42-inch pipe could carry some Alaskan gas but not all the known reserves
58	8128-31 8174 8271-72	Aug. 20		Blair Blair Blair		Pipe tonnage used by Foothills and CAGPL; manufacture of CAGPL pipes; Canadian manufacturing of Foothills pipes Foothills views on pipeline sizing 42-inch or the 48-inch pipe; Alaskan reserves
51	6829-33 6863-65	Aug. 11	WH	Hemstock Gibbs Dau	CAGPL Foothills CAGPL	Pipe size; carrying capacity; sufficient supply to warrant pipe size Operation and maintenance costs; equipment needs, repair and replacement parts; pipe size and capacity; volume per day; differences per route and alternative corridor
52	6985	Aug. 12		Dau		Japan as pipe supplier - logistics
C-22	2222	Aug. 11		Berger		Outline of Arctic Gas and Foothills proposals
61	8603 8608-13	Sept. 15	YK	H. Stevens H. Stevens R. Garlick S. Cook	U.S.W.A. U.S.W.A. U.S.W.A.	Need to meet short-term demand in manufacture of large size pipe Ability of the Canadian steel industry to meet the short-term demand; large size pipe capacity is limited; need for large amounts of plate steel; world supply of large size pipe
	8626-51			Gibbs Panel 4	Foothills Foothills	42 inch pipe versus 48 inch pipe; wall thickness and pressure differences; scheduling of compressor unit manufacture and construction; size and availability of compressor units
	8663-69			Marshall	CAGPL	Pipe wall thickness, increased costs, metallurgical considerations, crack arrestors, studies on crack arrestors, cost of installation of crack arrestors; chilling systems; roughness of plastic lined pipe
61A	8706 8734-55			Mirosh Glockner	Foothills Foothills	Highest achievable toughness for the pipe; inspection procedures and pipeline surveillance; operation and maintenance activities Pipe stress; flexural rigidity; bending; horizontal and vertical pipe movement; hoop stress; longitudinal flexural stresses; elastic deflection; overburden pressure; saddle weights
62	8763-8789	Sept. 16		Panel 5 Marshall	Foothills	Allowable pipe deflection; research; final design stage; right-of-way width and use; water drainage; frost anchors; block valves and intermediate block valves; costs; river crossing; environmental impact and assessment, single versus dual crossings, strain gauges

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62	8829-78	Sept. 16	YK	Panel 5 Marshall	Foothills CAGPL	Stress analyses; permissible pipe deflection; right-of-way width; grade considerations; front heave design, pipe integrity, block valves; safety measures; ditching and pipe bending procedures; ditch specifications re: depth, removal of frost susceptible material common to frost heave, padding, bedding; borrow materials; overhead bridges and river crossings; failure and repair, twin pipe versus single pipe
	8870			Glockner	Foothills	Flexible pipe; bending; ditching; design criteria; load configurations; pipe displacement
63	9026-32	Sept. 17		Panel 7	Foothills	Stress analysis of force exerted on pipe leaving compressor station
	9114-9206			Panel 8	Foothills	Metallurgical panel evidence; differences outlined between metallurgy and materials of Foothills and Arctic Gas proposals; crack arrestors, pressures, pipe thickness, 42 inch and 48 inch alternatives, corrosion prevention; manufacture - offshore and Canada
64	9207-9271	Sept. 18		Panel 8	Foothills	Pipeline supply, corrosion prevention, wall thickness, steel toughness, fracture control; Battelle tests crack arrestors; automatic welding machines
	9228-33			Wetterberg	Foothills	Quality & cost of Canadian pipe
	9252-65			Hushion	Foothills	Operation at 69% of test; decision to loop or add compression; possible operation at 80% of test if supply & demand warranted it
	9269-70			Shelton	Foothills	International manufactures of pipe ranked
65	9596	Sept. 22		Mirosh	Foothills	Calculations that spreads will build 55 miles with 42" pipe (which is familiar to contractors)
66	9754-55	Sept. 22		Kosten	Foothills	Preheating of pipe for bending dependent on metallurgy & specifications, temperature
68	1008 3-84	Sept. 24		Scott	MVPI	Description of design & specifications of a westcoast pipeline in B.C.
	10144			Dau	CAGPL	Specifications given to contractors
	10148-50			Dau		Tonnage & wall thickness given to contractors
76	11331-34	Oct. 21		Hughes	CARC	Pipe integrity, chilled pipe, environmental consequences
101	15483-84	Dec. 11		Zoltai	CARC	Must know specifications to predict effects of ground ice formation on pipe
C-55	5759	May 18	EDM	J. Paschen	Citizen	48 inch pipeline
C-60	6801-02	May 27	TOR	M. Wilkinson	Citizen	Smaller diameter, longer time span to transport gas
C-65	7441	June 4	OTT	A. Fisher	Citizen	Stelco, new mill capable of producing steel pipe up to 60" in diameter, 1 1/8" thick
C-68	7904	July 16	FP	Ellwood Wirth	Foothills CAGPL	Pipe diameter, 42 vs. 48; welding
C-76	8353-54	Aug 25	DPT	Burrell Steeves	Foothills CAGPL	Forty-two inch in diameter, one half inch thick, 3 to 10 inch diameter pipe to communities; 48 inches in diameter, seven eighths of an inch thick
C-77	8435	Aug 26		S. Tobie	Citizen	Diameter should be smaller

PIPELINE - START UP

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XIXA	2271-72	Mar. 17	YK	Clark	CAGPL	Burial; temperature changes; problems
XXVII	3451	Apr. 10		McRoberts	CAGPL	Welding, cold temperatures
40	5213	May 16		Hurd	CAGPL	Right-of-way maintenance, activity
	5224-25			Fielder	CAGPL	Pipeline and compressor station start-up plans
41	5333-35	May 20		Hurd		Personnel training, written start-up procedure
42	5431-37	May 21		Scott	MVPI	Line and station
45	5955-56	May 24		Horte	CAGPL	Different times for Mackenzie Delta and Prudhoe Bay

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61	8639	Sept. 15	YK	Lazerte	Foothills	Scheduling of construction, fabricating transportation materials to staging areas
63	9139-40	Sept. 17		Shelton	Foothills	Methods used to detect leaks after operation
68	10096-97	Sept.24		Hushion	Foothills	General operations plan similar to CAGPL
78	11651-53	Oct.23		Minning	CAGPL	Warm water testing; water-methanol testing

PIPELINE - STRINGING

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XXXIII	4338-39	Apr. 21	YK	Dau	CAGPL	Description of procedure
XXXIV	4469-71	Apr. 22		Williams	CAGPL	Caribou migration
XXXVII	4718	May 13		O'Rourke	CAGPL	Pipeline ROW north of Old Crow
XXXVIII	4917-18	May 14		Lucas	CARC	Weather conditions
65	9606-07	Sept.19		Bauer	Foothills	Off right-of-way trucks; use of snow roads
66	9663	Sept.22		Kosten	Foothills	Stringing schedule; possibility of commencement in December
	9716			Kosten		Dependent on snow road completion & daylight
130	19836	Mar.16		Williams	CAGPL	Laying pipe once trench is open, pulling out process
131	19984-85	Mar.17		Williams		Shallow Bay, scheduling

PIPELINE - SURVEYS

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XVIII	2049-52	Mar.14	YK	Scott	MVPL	Location of the line
XXVI	3177	Apr.9		Scott Clark	CAGPL	Geophysical; scheduling
XXVIII	3456-58	Apr.11		Clark		Resistivity, shallow seismic
XXXIII	4335	Apr.21		Dau	CAGPL	Two phases
XXXIII	4335-37	Apr. 21		Dau		Main step in construction, orthophotomosaic mapping
XXXIV	4422-28	Apr. 22		Dau		Spread camp C, crews
XXXVIII	4848	May 14		Lucas	CARC	Final location of areas requiring buoyancy control
	4888			Dau		Conventional/Arctic construction techniques
	4953-54			Williams		Number, control surveys
XXXIX	5003-04	May 15		Williams		Size of survey crews
	5099-5102			Dau		Soil survey - ground truth for design solutions
	5174-76			Dau		Start of construction surveys
44	5736-56	May 23		Bell	NWT IB/MA	Five phases, concerns of communities
45	5881-82	May 24		Genest	CAGPL	Land use application for survey near Fort Good Hope, environmental inspectors
59	8415-18	Aug.21		Fawcett	Foothills	Foothills legal right-of-way survey; river crossings
66	9653	Sept.22		Kosten	Foothills	Survey route verification; manpower requirements
	9656-57			Kosten		Line, civil construction survey
67	9877-78	Sept.23		Mirosh	Foothills	Scheduling; compression of time frame
85	12717-20	Nov.12		Scott Environmental Panel	MVPI CAGPL	River crossings, engineering and environmental details
89	13543-46	Nov.18		Dabbs	CAGPL	Survey of right-of-way vegetation
90	13576-77	Nov.19		Dabbs		For revegetation
134	20390	Mar.24		Jakimchuk	CAGPL	Re mammals, cross - Delta route, July 1975
193	30137-39	Oct.5		Doyle	EPB	Importance of having inspectors on site during facility, access road, borrow site surveys investigation

PIPELINE - TESTING, TEST MEDIA AND DISPOSAL

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XX	2387-89	Mar.18	YK	Clark	CAGPL	Entering water at river crossings; disposal, warm water, oxygen deficient water; methanol
XXIV	2823-27	Apr.7		Clark		Ditch plugs in North - not tested; controlled flooding
XXIV-A	2885-86			Clark		Test sites as tool to aid construction
XXVI	3262-63	Apr.9		Slusarchuk	CAGPL	Gauges monitoring pipeline movement, gauges monitoring soil movement
XXVII	3308	Apr.10		Williams	CAGPL	Construction and operation under various conditions
XXIX	3586-87	Apr.14		McRoberts	CAGPL	Hydrostatic testing
	3652-54			Purcell	CAGPL	Stress analysis - hydrostatic
	3670-74					Hydrostatic - warm water and methanol - water
	3694-3701					Drop Weight Tear Test - pipe fracture
XXX	3719	Apr.15		Price	CAGPL	U of California, 48" diameter, 30' lengths, pipe, loading
	3737-39			Purcell	CAGPL	Coating evaluation program, cathodic protection testing
	3756			Purcell		Engineering designs; manufacturers' testing
	3859-60			Holmberg	CAGPL	Steel development, 48" diameter pipe, Stelco
XXXI	3907	Apr.16		Reid	CAGPL	Cleaning agents, automatic welding
	3920-27			Purcell		Pipeline testing, brittle failures, Canadian Code
				Holmberg		125 percent pressure
	3951			Reid		Hydrostatics, warm water, methanol, air, electronic internal inspection tool
XXXII	4002-03	Apr.18		Reid		Methanol requirements
	4051-52			Holmberg		Pipe tested by manufacturers and CAGPL inspectors
	4081-82			Price		Establish radius of curvature, wrinkles
	4090-96			Purcell		Arrestor bands - effect of length of pipe
	4115-24			Reid		Warm water method, methanol predominant, distillation
	4124-31			Reid		Distillation of methanol
	4151-52			Holmberg		Applicant's testing of automatic welding
	4165-66			Reid		Warm water method - veto of fish biologists
XXXIII	4296	Apr. 21		Dau	CAGPL	Revised methanol testing program
	4353			Dau		Testing of welding procedures
	4362-63			Dau		Hydrostatic testing of welds
XXXIV	4384-85	Apr. 22		Dau		Field, internal electronic inspection tool
XXXVIII	4914	May 14		Lucas	CARC	Welding, procedure tests, parameters
41	5314-18	May 20		Hurd	CAGPL	Frequency of pipeline breaks
	5337-39			Berger		U.S.S.R. pipelines
42	5423	May 21		Fielder	CAGPL	U.S.S.R. - did not test pipeline hydrostatically
	5431-37			Hurd		Purging pipeline sections
47	6164	June 3		Wilimovsky	EPB	Methanol - effect on aquatic life
61A	8725-26	Sept. 15		Walker	Foothills	Final pigging of the crossing; use of a gauge or smart pig
63	9129	Sept. 17		Wetterberg	Foothills	Pipe to be visibly and destructively tested by manufacturers
	9129			Shelton	Foothills	Hydrostatic testing to detect cracks; use of electronic pigs
	9143-45			Shelton		Standard tension test; pressure tests during manufacture; charpy V-notch test for steel toughness
	9156			Hushion	Foothills	Familiarity with CAGP burst tests
64	9217	Sept.18		Hushion		Three Battelle tests on crack arrestors - done for CAGPL
	9218			Hushion		Hydrostatic test effects on crack arrestors, stress levels
67	9972-76	Sept.23		Mirosh	Foothills	Radiographic & ultra-sonic techniques; methanol or warm water testing; disposal of fluids
73	10842-970	Oct.16		Frost Heave Panel	CAGPL	Arctic Gas, Northern Engineering Systems, tests on frost heaving; shutoff pressures; pipe designs; mechanics and theory of frost heave,
76	11226-28	Oct.21		Parker	CARC	Hydrostatic tests, alternative substances; toxic and non-toxic anti-freeze
82	12196-99	Nov. 6		McCart	CAGPL	Disposal of methanol into Mackenzie and Porcupine rivers

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PIPELINE - TESTING, TEST MEDIA AND DISPOSAL

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85	12676-82	Nov.12	YK	Bayly Hemstock Williams	COPE/ITC CAGPL CAGPL	Methanol discharge, storage, contaminants
88-A	13392-93	Nov.17		McCart	CAGPL	Methanol, impact on fish
89	13561-65	Nov.18		Dabbs	CAGPL	Methanol, impact on vegetation
90	13604-20	Nov.19		Dabbs		Effect of methanol on vegetation, tests
91	13836-43	Nov.20		McCart		Impact on fish, studies, methanol, warm water test fluids
92	13995-97	Nov.21		McCart		Synergistic effect of increased silt load and methanol
93	14068-76	Dec.1		McCart		Use of methanol to test pipeline; disposal of waste into the Mackenzie river; impact on fish over-wintering and spawning
95	14474-76	Dec.3		McCart		Methanol - disposal; water systems; fish
100	15187-88 15301-10	Dec.10		Bouckhout Hayden	Foothills Foothills	Methanol disposal included in impact assessment Experiments, impact of methanol on fish, benthic organisms
103	15737-39 15828-30	Dec. 15		Stein Stein	CARC	Methanol usage Methanol, warm water testing, potential environmental implications
104	15952-65	Dec. 16		Stein Walker Steigenberger Millen	CARC CARC CARC	Methanol in combination with pipeline substances re: pre-discharge analysis, disposal on lakes, systems, land
105	16037-40	Dec. 17		Steigenberger		Amount of water required re: testing
107	16331-32	Jan. 12		Templeton Wilimovsky	EPB EPB	Methanol disposal; tolerances of different organisms, dispersal through the system, recovery, dumping, need for more information
126	19235-44	Feb.16	IN	Snow Pettigrew	COPE/ITC COPE/ITC	Pressure testing pipeline with methanol solution - siting of containment equipment along right-of-way
132	20100-02	Mar.18	YK	Williams	CAGPL	Using methanol to test pipe in Delta; possibility of using warm water for testing under channel crossings
135	20598-600	Mar.25		Sprague	MVPI	Recommendations to reduce impact on aquatic life by warm water, methanol
136	20648-49	Mar.25		Sprague		Disposal of methanol into water, proper dilution
159	24373	July 7		Lutes	Foothills	Amendment to Foothills application, conversion from methanol to hot water testing
195	30452-55	Oct.7		Mirosh	Foothills	Amendments to pipeline testing plan

PIPELINE- VALVES

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XXIX	3704-05	Apr.14	YK	Purcell	CAGPL	Toughness
XXX	3732-33	Apr.15		Koskimaki	CAGPL	Block, bypass, compressor stations
44	5774	May 23		Horte	CAGPL	Valves at locations near some communities
C-11	1037-38	July 8	F. McP.	Blake	CITIZEN	Distance between shut-off valves
C-16	1493-94 1497-1501	July13	O. C.	Rowe Berger Rowe	CAGPL	Automatic valves to shut off gas if pressure drops Shut-off valves in case of fire
61A	8701 8704-20	Sept.15	YK	Mirosh Mirosh Bauer Walker	Foothills Foothills Foothills	Intermediate block valves installed intermediate to stations Block valves; intermediate block valves; costs of installation, location away from compressor stations
62	8773-74	Sept.16		Mirosh		Block valves and intermediate block valves; capital cost of the system
	8809-10			Mirosh		Block valves; corridor concept; third party vandalism; looping; pipeline markings
	8854-59			Mirosh		Block valves; safety precautions; fire and explosions; AGTL use of block valves; looping

PIPELINE -- VALVES (continued)

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63	8982-83	Sept.17	YK	Lazerte	Foothills	Block valves, pig trap, two station valves to close in case of emergency; check valves
	9053-55			Mirosh	Foothills	Independent block valves not planned because of isolation
	9118			Hushion	Foothills	Foothills requires standard 42 inch components; Arctic Gas has specialized needs
	9131			Wetterberg	Foothills	Foothills, unlike CAGPL, will require only standard valves
	9143-44			Shelton	Foothills	Notch toughness valves
68	10083-84	Sept.24		Scott	MVPI	Ten block valves on 140 mile Westcoast Transmission line in B.C. - use of block valves compared to Foothills application; looping
131	19882-84	Mar.17		Purcell	CAGPL	Decision still to be made re use of block valves; value to regulate flow in twin 36-inch crossing milepost 336
132	20039-42	Mar.18		Purcell		Uses of block valves; decision not to use them, cost saving
161	24965-66	July 13		Carlson	CAGPL	Location at terminals, 36 inch pipes, Shallow Bay crossing; access by helicopter or boat

PIPELINE - VANDALISM

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XXIV	2818	Apr.7	YK	Hollingshead	CAGPL	Security of line - rifle shots
XXX	3762-66	Apr.15		Purcell	CAGPL	Buried/above-ground, damage
XXXI	3929-31	Apr.16		Purcell		Pipe failure
XXXII	4060	Apr.18		Purcell		Above-ground pipe
42	5498-5500	May 21		Scott	MVPI	Public curiosity, security
C-12	1085-86	July 8	F. McP.	Blake	CITIZEN	Threat of violence
C-13	1248	July 10		J. Martin	CITIZEN	Frustration, hostility
56	7860-62	Aug. 18	YK	Horte	CAGPL	Greater risk if pipeline is exposed at river crossings
C-22	2223-26	Aug. 11	WH	C. Wing	Citizen	Enraged at native threats and Berger's silence
62	8773-74	Sept. 16	YK	Mirosh	Foothills	Third party damage is a major cause of pipeline disruption
63	9053-56	Sept. 17		Mirosh		Reason for fence around compressor sites?
68	10113-14	Sept.24		Mirosh		Use of guards & dogs at river crossing of Westcoast in B.C. to prevent attack by Doukhabors; application in territories
86	12886	Nov.13		Reeves	Foothills	Archaeological sites near line
88	13258-65	Nov.17		Reeves		Archaeological sites, surveillance
152	23360	May 6		Notti	CYI	Security services in Alaska
C-77	8426	Aug 26	DFT	N. Betsina	Citizen	Drill hole and put in match

PIPELINE - WELDING

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XIX	2208	Mar.17	YK	Williams	CAGPL	Sans Sault test site; welding in cold temperatures
XXIX	3671	Apr.14		Purcell	CAGPL	Low temperature, design of material specification
	3681-82					Metallurgy, weldability - seam and girth welds
	3701					Automatic and manual welding, weld quality, fittings
XXX	3743-46	Apr.15		Purcell		Automatic/manual, decision re: manpower
	3801			Holmberg	CAGPL	Reinforcing bands, 4 feet long, 72" thick
	3839-46			Purcell		Seal, fillet, girth
	3853-60			Holmberg		Girth welding, procedures, specifications
				Purcell		
XXXI	3908-11	Apr.16		Holmberg		Cleaning chemicals, automatic welding, pipeline cleaning
	3957-58			Holmberg		Longitudinal, spiral weld seams, electric resistance process
XXXII	4059	Apr.18		Reid	CAGPL	Ends uncoated for welds - caps could be used
	4132			Reid		Possible contamination from uncoated welds
	4150-51			Holmberg		Automatic and manual welding

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XXXIII	4328-30	Apr. 21	YK	Dau	CAGPL	Double jointing 40' pipe
	4345			Williams	CAGPL	Slides - manual welding
	4352-53			Dau	CAGPL	Conventional manual, semi and fully automatic
	4356-58			Dau		Tie-ins by girth weld - buoyancy control
	4359-63			Dau		Pipe welded on river bank before installation
	4371			Dau		Film to be shown
XXXIV	4376			Marshall	CAGPL	Film on automatic welding
	4539-41			O'Rourke	CAGPL	Pipe welding/ pre-built joints
XXXV	4570-79	Apr. 23		Dau		Testing of automatic welding; joints/day
	4582-84			Dau		Double number of welds with 40 foot joints
XXXVII	4779-80	May 13		Dau	CAGPL	Lag in schedule, extra accomodation for workers
XXXVIII	4913-18	May 14		Lucas	CARC	Procedure tests, parameters
50	6648	June 6		Horte	CAGPL	Double jointing
61A	2723	Sept. 15		Walker	Foothills	Channel crossing construction techniques
63	9144-45	Sept. 17		Shelton	Foothills	Weldability controlled by chemical composition; radiographs of welds; magnetic particle and dye inspection
	9175			Hushion	Foothills	Implications of crack arrestors to stress and welding
	9181			Hushion		Use of automatic welding on 42" pipe
64	9226	Sept.18		Hushion	Foothills	Use of automatic welding; climate
65	9607	Sept.19		Bauer	Foothills	Filler & cap passes; preheating & weld wrap
66	9780-84	Sept.22		Mirosh	Foothills	Length of sections welded prior to ditching
	9803-4-08			Kosten	Foothills	Front end welders in demand because of high skill & experience
67	9889-92	Sept.23		Bauer		Trans Alpine Pipeline (Europe) - welders left because no overtime allowed
	9902-07			Kosten		Welding training program; manpower requirements; demand
	9972-76			Mirosh		Visual inspection; radiographic & ultra-sonic tests
68	10076	Sept.24		Hushion	Foothills	Possibility of advancement for welders
	10159-62			Dau	CAGPL	Welding progress; number of joints per day
	10170			Williams	CAGPL	Use of shelters; welding on coldest days
76	11229-32	Oct.21		Weeden	CARC	Construction scheduling, Alyeska; qualifications; employment; winter welding difficulties
	11249-51			Weeden	CARC	Welding conditions during the winter; cold extremes; metal properties of Alyeska pipe
93	14064	Dec.1		Hemstock	CAGPL	Winter welding conditions re: Canol pipeline
106	16259-60	Dec. 18		Lent	CARC	Falsification of pipeline welds re: informer's termination of employment
161	24883-86	July 12		Williams		Number of welders needed, availability of trained personnel; no welders involved in NORTRAN
195	30640-41	Oct.7		Johanson	CAGPL	Alyeska, welding, few days lost due to cold temperatures
	30663-64			Daniels	CAGPL	Alyeska, low welding rates during winter months
195A	30689-91	Oct.7		Daniels		Shut-down due to extreme temperatures, welding quality
				Fowler	CAGPL	

PIPELINE APPLICATION ASSESSMENT GROUP - REPORT

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XV	1727-36	Mar.11	YK	Dau	CAGPL	Concerns re: engineering aspects of route selection; slope stability and erosion susceptibility; valleys and valley walls; pipeline-highway interaction
XV11	1988-90	Mar.13		Bayly	COPE/ITC	Concerns re: supply of granular materials
XV111	2091-92	Mar.14		Dau	CAGPL	Pg161 - Factors to be considered in route selection
				Scott	MVPI	

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XX	2296-2300	Mar.18	YK	Clark	CAGPL	Sections re: geotechnical concerns, 8:1, 8:2, 8:5, 8:7, 8:8, 8:9 8:10, frost heave, chilled pipeline
	2306-07			Clark		frost heave in unfrozen ground
	2342			Morgenstern	CAGPL	Problem of frost heave highlighted
	2343-44			Clark		8:2, buried pipeline rationale; frost heave, drainage erosion control
	2344-45			Clark		8:5; slope stability, erosion susceptibility
	2365-72			Clark		Slope stability and erosion, p.193; potential for slope failure; Slope stabilization measures; shallow slope failures; 8:5, Appendix I, Cv; criteria for identifying slopes requiring analysis for potential shallow failure; statistical significance, 8:5, Appendix II; retrogressive thaw flow slide; cut slopes; creep of ice-rich soils
	2402-05			Clark		8:8, impact in valleys; location of pipeline river crossings; Thunder River, Great Bear River
XXI	2414-20	Mar.19		Morgenstern		Explanation of Cv, re: p.193 of Report
	2473-76			Clark		p.175, convective heat transfer around chilled pipe; geothermal analysis
	2478			Clark		Erosion and drainage control measures
XXVI	3272-73	Apr.9		Scott		Re: Frost heaving around pipe, ground water, continuous permafrost
42	5515-16	May 21		Scott		Special sensitivities of valleys; table
55	7654	Aug.15	WH	Banfield	CAGPL	Distribution maps re: calving grounds; harassment of animals
101	15415-17	Dec. 11	YK	Peterson	CARC	PAAG's role in assessment of a specific application, compared with general research of E-S P
	15431-32			Peterson		P. 377,378,383,312,310; recommended avoidance areas
135	20574-75	Mar.25		Sprague	MVPI	Inquiry decisions should incorporate water quality suggestions of report
C-50	5058-64	May 11	VAN	Potts	Citizen	Preliminary assessment, statement that native people would become a minority
181	28152-27	Sept 8	YK	Reimer	MVPI	Does not deal with handling instabilities
182	28376	Sept 9		Clarke	COPE/ITC	In-migration during pipeline construction expected

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XXIII	2739-46	Mar. 21	YK	Hardy Clark Hollingshead	CAGPL CAGPL CAGPL	Location, environmental requirements, government report, re: Pointed Mountain
XXIV-A	2945-47	Apr.7		Berger		Pointed Mountain - engineering; Alyeska
XXV	2949	Apr.8		Genest	CAGPL	Report 104
	2975			Cooper	CAGPL	Canol - crossing Mackenzie
	2998-3014					Canol, Pointed Mountain, Trans-Alaska
	3078-81					Trans-Alaska - standard project flood
XXVI	3153	Apr.9		Clark	CAGPL	Pointed Mountain Line, Berm breaks
XXVII	3317-19	Apr.10		Scott	MVPI	800 mile elevated pipeline, China
	3346-47			Scott Hardy	CAGPL	Pointed Mountain Line, failure
	3430-32			McRoberts	CAGPL	Buried pipe, Alaska
XXVIII	3553	Apr.11		Morgenstern	CAGPL	Alaskan Pipeline
	3558			Hardy		Westcoast Transmission
XXIX	3568-76	Apr.14		Scott		Pointed Mountain pipeline - floating
	3580-83			Hardy		Trans-Canada and Westcoast - overbend movement
	3679-80			Reid	CAGPL	Interprovincial oil line; Trans-Canada
	3703-04			Berger		Alyeska -pipe testing
XXX	3719			Price	CAGPL	Alyeska Pipeline
	3763-64	Apr.15		Purcell	CAGPL	Gas pipeline, Siberia

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XXXI	3923	Apr. 16	YK	Holmberg	CAGPL	Little Inch, Big Inch - operated by Texas Eastern Pipeline Company
	3929-31			Purcell	CAGPL	Alyeska Oil Pipeline - tests against vandalism
	3953-60			Anthony	CARC	Interprovincial Pipeline Limited, Toronto
	3964			Reid	CAGPL	Alyeska, pipeline testing mediums
	3969			Reid		Trans-Canada Pipeline
	3995-96			Scott	MVPI	Soviet Union Pipelines
XXXII	4060	Apr. 18		Berger		Trans-Canada - bulldozer damage
	4109			Berger		Canol - film
	4150-52			Holmberg		Alyeska - automatic welding
	4154			Holmberg		Welding - West Texas, Italy and Holland pipelines
XXXIII	4252	Apr. 21		Berger		Canol - transportation
	4277-78			O'Rourke	CAGPL	Alyeska - pipe from Japan
	4341			Williams	CAGPL	Northern Alberta 24 inch - construction slides
XXXIV	4378-83	Apr. 22		Genest	CAGPL	Westcoast Pipeline - Fraser River crossing
XXXV	4572-73	Apr. 23		Dau	CAGPL	Alyeska, North Sea - automatic welding
	4578-79			Dau		Alyeska - automatic welding
	4588-90			Dau		Trans-Canada, drain on construction resources for CAGPL
XXXVIII	4895-96	May 14		Lucas	CARC	Trans-Alaska Oil Pipeline, width of ROW
	4923-28			Lucas		Alyeska Oil Pipeline
	4951			Goudge	MVPI	Big-inch Trans-Canada construction projects
XXXIX	5047	May 15		Williams		Alyeska - crew includes females
	5065			Lucas		Alyeska relieved of commitment to rely on snow roads
	5089-92			Berger		El Paso - frost bulb problem; Alyeska - snow roads
	5173-74			Dau		Alaska - union problems
40	5191	May 16		Fielder	CAGPL	Visit to U.S.S.R.
	5207			Hurd	CAGPL	Alaskan Arctic Gas Pipeline
	5246-47			Hurd		Large diameter pipeline, U.S.
41	5273-83	May 20		Fielder	CAGPL	Taas-Tumus, Yakutsk-Pokrovsk, Messoyakha-Norilisk lines; line serving Medveyzhye Gas Field, U.S.S.R.
	5316-17			Carlson	CAGPL	Trans-Canada Pipeline
	5331-32			Lucas	CARC	Trans-Alaska Pipeline, Alyeska Pipeline
	5337-49			Berger		U.S.S.R. natural gas pipelines
	5359			Lucas		Environmental Report, Alaskan Arctic Gas Application
	5377-84			Lucas		Trans-Canada Pipeline, training program
42	5385-86	May 21		Marshall	CAGPL	Trans-Canada Pipeline, native staff
	5394-95			Carlson		Trans-Canada Pipeline
	5408			Fielder		U.S.S.R., Messoyakha-Norilisk Line, Medveyzhye-Punga Line
	5422			Scott	MVPI	U.S.S.R. - above-ground pipelines
	5532			Horte	CAGPL	Trans-Canada Pipeline Ltd., Michigan Wisconsin Pipeline Co., Natural Gas Pipeline of America
43	5595-5615	May 22		Horte		Trans-Canada Pipelines
	5644-47			Horte		Alberta Gas Trunk Line Co. Ltd., Trans-Canada Pipeline Ltd.
	5696			Horte		Northern Border Pipeline
	5710			Horte		Alyeska
44	5840-41	May 23		Horte		Trans-Canada Pipelines
	5848			Bayly	COPE/ITC	Trans-Canada Pipelines; distance from communities
45	5918-22	May 24		Horte		Trans-Canada Pipelines, looping
	5955			Horte		Alyeska Oil Pipeline
46	6132-35	June 2		Bliss	EPB	Alyeska - communication re: chilling and drainage
47	6210	June 3		McT-Cowan	EPB	Alyeska - 5 mi wildlife refuge each side of ROW
49	6453-54	June 5		Horte	CAGPL	Impact of construction, oil and gas fields, Trans-Alaska
	6609			Horte		Inland Natural

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50	6663-64 6670-71 6689-90 6707-09 6730-31	June 6	YK	Horte Horte Horte Horte Horte	CAGPL	El Paso - frost bulb problem Trans Canada - cubic feet/day, looping Trans Canada - Mcf mile method, Alberta Gas Trunk Line - zone gate method Alyeska - construction management firm Alyeska - cost plus contract
C-4	258-259 269 314	May 28	Hay River	Monroe Lantz D.Dean	Citizen Citizen Citizen	Trans-Canada Gas Pipelines Alyeska, cost of housing, food Pointed Mountain Line, Westcoast Transmission
C-10	951			F. Andrew	Citizen	Canol pipeline
C-11	991 994 1028	July 8	F. McP.	T. Francis J. Simon J. Blake	Citizen Citizen Citizen	Alyeska Pipeline Alyeska Pipeline Canol pipeline
C-12	1086 1106-07			P. Blake Elwood	Citizen Foothills	Alyeska Pipeline El Paso Pipeline
C-13	1206 1261	July 10		W.McDonald J. Charlie	Foothills Foothills	Alyeska, social impact Alyeska
C-16	1497	July 13	O. C.	Rowe	CAGPL	Trans-Canada Pipeline System
C-17	1661 1720-21 1752-56 1759-63	July 16 July 17	F. L.	H. Deneron H. Deneron P. Nahanni E. Dean	Citizen Citizen Citizen Citizen	Pointed Mountain Pipeline Pointed Mountain Pipeline Pointed Mountain Pipeline Pointed Mountain Pipeline
56	7824-29 7857-58 7875-77	Aug. 18	YK	Horte Horte Berger Horte	CAGPL	El Paso; transportation costs Alyeska re: camp regulations, firearms, women, alcohol Alyeska; completion dates, scheduling of construction; gas re-injection
58	8147-48 8164 8190-94 8272	Aug. 20		Blair Blair Marshall Berger Blair	Foothills Foothills CAGPL	Alyeska re: environmental impact; chilled pipeline Alyeska - intentions versus realities and eventual outcomes; policy changes; influence of unions Pan Arctic, Arctic Islands; areas of future gas reserves El Paso; 42-inch pipe capacity
60	8580-81	Aug. 22		Scott Mirosh	MVPI Foothills	Alberta Gas Trunkline
51	6757 6780-81	Aug. 11	WH	Smith Hemstock	Gov't. Yukon CAGPL	Canal pipeline Alyeska
51	6866 6877	Aug. 11		Dau Banfield	CAGPL CAGPL	Alyeska, community service laterals Alyeska, safety precautions
52	6886-87 6895 6900-07 6948-49	Aug. 12		Anthony Banfield Dau Clark	CARC CAGPL	Alyeska use of the Alaska highway Synergistic effect along Alyeska line Location of an oil pipeline Construction in mountainous terrain
53	7077 7082 7088-89 7094-7100 7108 7113-18 7140 7145-53	Aug. 13		Williams Hemstock Williams Williams Hemstock Clark Banfield Banfield Hemstock	CAGPL CAGPL CAGPL CAGPL	Mountain Pacific pipeline study group Alyeska use of gravel haul road Alyeska use of gravel haul road Oil pipeline impacts and considerations Granular requirements of oil pipeline Alaska experience re: hunting and fishing by pipeline workers Fish studies by McCart for El Paso Alyeska Hypothetical stipulation by U.S. Gov't. re: Alyeska route

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63	9039-41	Sept.17	YK	Mirosh	Foothills	Delta camp of Alyeska has a well for water supply, lagooning for sewage not acceptable in some areas in Alaska
	9044			Lazerte	Foothills	Return from unmanned to manned compressor stations on Transcanada pipeline
	9086			Mirosh		Sewage processes in Alaska - lagoon and incineration equipment
	9103			Scott	MVPI	Alaska Arctic Gas - Environmental Impact Statement re: noise
	9125			Wetterberg	Foothills	Projections of Transcanada and AGTL's demands on manufacturers in thousands of tons per year; expansion rates included
	9130			Wetterberg		Experience of AGTL on other pipelines
	9135			Shelton	Foothills	Ruptures and leaks in Canadian pipelines
	9144-45					Steel specified has been used by AGTL
	9159-64			Hushion	Foothills	El Paso decision to use crack arrestors
	9165			Wetterberg		Installation of pipe of same specifications for north in AGTL Alberta line
	9176			Hushion		Grades of pipe used by AGTL and TransCanada pipelines
	9182-99			Hushion		Use of foreign pipe supplies by other pipelines, including Alyeska
64	9224A	Sept.18		Hushion		Differences between AGTL and Foothills operating differences
	9227			Hushion		Early investigations of AGTL into work with Alyeska people on effects of Arctic regime on automatic welding machines
	9409			Mirosh	Foothills	Alyeska revegetation on soil mound containing frozen material
	9444-48			Mirosh		Alyeska's permits subject to delays because of slope stability designs in thawing soils
65	9460-61	Sept.19		Mirosh		Alaska procedures in angle and cut of slopes
	9489			Hwang	Foothills	Experience with Advisory Board Monitoring Alyeska; belief in secure and safe Mackenzie pipeline
	9568			Claridge	Foothills	Mound breaks - success rate in Alaska
	9598			Berger		Alaska pipeline already one year behind
	9616-17			Kosten	Foothills	Interprovincial Pipeline - Sarnia to Montreal project
	9637-40			Genest	CAGPL	Alyeska technical specifications
66	9667-72	Sept.22		Kosten		Experience with pipelines in N. Alberta difficulty of peak employment over Christmas
	9736-37			Berger		Requests information on winter work schedule of Alyeska
	9753-55					Bending - preheating of pipe in Europe and on Peace River Oil Pipeline
	9782-83			Kosten		Alaska - concern on Alyeska whether or not to pulverize frozen material before returning it to ditch
	9799			Kosten		Alyeska training for personnel
	9803-4-08			Berger		Wages for skilled jobs such as front end welders on Trans Canada and Alyeska lines
	9817			Bayly	COPE/ITC	Number of deaths on Alyeska line and related work
67	9856	Sept.23		Jarvis	Foothills	Alyeska decision not to use snow roads
	9870			Jarvis		Shut off date on Peace River Oil Pipeline
	9882			Kosten	Foothills	Wages not based on Pointed Mountain construction rate
	9888-92			Bauer	Foothills	Experience of problems on Trans Alpine Pipeline in Europe re restrictions of overtime
	9905-07			Kosten		Earnings of unskilled eg. housekeepers in Alaska

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53	7193-7208	Aug. 13	WH	Sprecker	CYI	Impact in Glenallen Alaska
	7210-22			Sprecker		Impact of Alyeska
	7552-53			Wah-Shee	NWT IB/MA	Alternative pipeline proposals
54	7431	Aug. 14		Geist	CARC	Alyeska; Impact on Caribou
	7489			Weeden	CARC	Fort Yukon corridor follows the established Alyeska pipeline route across the Arctic Plains into the Brooks Range
	7512			Weeden		Alyeska, studies on soil and terrain conditions apply to the Fairbanks corridor
	7522-25			Parker	CARC	Alyeska, road transport facilities; corridors
	7531-33			Parker		Trans-Alaska pipeline - routing locations; right-of-way costs; planning
	7534-88			Parker	CARC	Alyeska construction; access; all weather gravel roads
55	7621-22	Aug. 15		Hughes	CARC	Canol pipeline
	7650			Banfield	CAGPL	Alyeska; Environmental Impact Assessment; spills
C-18	1782	Aug. 5	FGH	Barnaby	Citizen	El Paso application
	1788			F. Rabisca	Citizen	Social impact of the Alyeska pipeline
	1806			A. Wilson	Citizen	Experience on pipelines in Fort Nelson and Alberta
	1815			C. Barnaby	Citizen	Canol pipeline - oil spill from 5,000 gal. tank
C-19	1838	Aug. 6		S. Kakfwi	Citizen	Social impact of Alaska pipeline
	1850-51			Blair	Foothills	States minimal environmental disruption by other AGTL pipelines
C-20	1945-47	Aug. 7		M.R. Drybone	Citizen	Negative impact of the Alyeska pipeline
	2037			E. Cook	Citizen	Work on canol project
	2061-62			A. Rabisca	Citizen	Southern farmers get compensation for land use
C-21	2145	Aug. 9	NW	R. Laycock	Citizen	Canol pipeline
	2208-10			W. Fraser	Citizen	Social cost of Alyeska pipeline
	2228			C. Pearson	Chamber of Commerce	Canada should pace development better than Alaska
C-22	2237-38	Aug. 11	WH	A. Wright	Citizen	Clean camp sites
	2260-63			R. McRobb	Citizen	Prevent Alaska - style inflation
	2291-93			O. Posiwashchek	Citizen	Study of statistics in Alaska
C-23	2313-14	Aug. 14		A. Fekete	Citizen	Experience with safety and quality of other lines
	2319-24			A. Fekete	Citizen	Impacts of the oil pipeline
	2333			R. McCandless	Citizen	El Paso proposal; FPC hearings
	2340-41			R. McCandless	Citizen	Westcoast Transmission line, B.C.
	2352			C. Taylor	Citizen	El Paso proposal
	2365			A. Cuvret	Citizen	Rents, housing, social impacts - Alaska
	2372			R. Genelli	Citizen	Cost of living in Alaska due to Alyeska
61-A	8754	Sept. 15	YK	Glockner	Foothills	Pipelines built in the north where one could observe the effects of frost heave
62	8810-12	Sept. 16		Mirosh	Foothills	Pipeline building in southern Canada; third party vandalism; development of the corridor
	8857			Mirosh		AGTL pipelines; installation of block valves; dual purposes
	8918			Berger		Alyeska pipelines re: use of a satellite communication system
	8931			Scrimis	Foothills	Study in the past re: Mackenzie Valley oil pipeline
	8941-42			Scrimis		Effect of Alyeska oil pipeline on the public telephone system in Alaska
	8965			Mirosh		Alyeska; Foothills research re: Alyeska experience with communication services

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67	9967-69	Sept.23	YK	Scott	MVPI	Drainage problems arose from pads on Alyeska line
	10040			Hushion	Foothills	Experience of AGTL and innovations for northern pipelines
68	10047-49	Sept.24		Hushion		AGTL pipelines-northern Alberta
	10083-84			Scott		Westcoast Transmission-absence of compressors over 140 miles
	10113-14			Scott		Westcoast mainline across Fraser River- 24 hour guard armed with dogs
	10158			Williams	CAGPL	Length of winter season in Alberta
	10200			Templeton	EBP	Oil Pipeline not inevitable; requirements
	10202-05			Berger		Monitoring framework for Alaska pipeline
69	10380-444	Sept.25		Owen	MVPI	Pointed Mountain Gas Pipeline; route source of gas
	10447-53			Owen		Pointed Mountain Pipeline; operations of land use permit holders; clean-up of the right-of-way
	10454-77			Owen	MVPI	Pointed Mountain Pipeline; land use permits
	10477-99			Owen		Pointed Mountain Pipeline; impact of construction
70	10502-34	Sept.26		Owen		Pointed Mountain Pipeline
	10529			Owen		Beaver River to Fort Nelson Line
	10580			Lewis	MVPI	Alyeska pipeline re: studies done on river bed load movement
	10585-86			Lewis		Alyeska Pipeline; material borrow source methods; Evaluation of these methods with respect to aquatic habitats; sources of gravel from river bars of braided streams
	10586			Lewis		Alyeska operations re: mining of borrow on inactive river beds, river bars
71	10625	Oct.14		Bayly	COPE/ITC MVPI	Pointed Mountain; lands management; land use; security deposits
72	10712	Oct.15		Bell Longlitz	NWT IB/MA	Pointed Mountain re: land tenure agreements, section 3 of land use regulations
	10776			Marshall Lewis	CAGPL	Alyeska; data on Alaskan North Slope rivers
73	10919-20	Oct.16		Clark	CAGPL	Alyeska; costs; elevated pipeline
74	11001-13	Oct.17		Williams	CAGPL	Alyeska; vertical support members; accidents occurring during construction to the workers
75	11026-34	Oct.20		Parker	CARC	Alyeska experiences re: snow roads, work pads
	11035-141			Parker Weeden	CARC	Alyeska, El Paso; research and impact studies; position of the State of Alaska; experiences and knowledge gained by Alyeska planning and construction; corridor established
76	11144-179	Oct.21		Parker Weeden		Alyeska experiences; Alyeska right-of-way location; El Paso; Alyeska facilities; research
	11179-298			Parker Weeden		Alyeska need for road and transportation facilities; costs to the state; gravel availability
78	11491	Oct.23		Roed	CARC	North Sea, Santa Fe operation
	11497-500			Roed		Polar Gas, Y pipeline route
	11512-14			Roed		Winnipeg to Montreal pipeline route part of the edge of shield pipeline route; Trans Canada line
	11529-30			Roed		Alyeska re: Alyeska haul road
79	11690	Nov. 3		Minning	CAGPL	Slides showing development of borrow or active flood plain in Alaska
	11695			Minning		Stockpiling of gravel in windrows carried out in Alyeska before freeze-up
	11703			Minning		Slide of active flood plain site and gravel windrows carried out in Alyeska before freeze-up
	11703			Minning		Slide of active flood plain site and gravel windrows at Alyeska site

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79	11708-11	Nov. 3	YK	McCart	CAGPL	Sedimentation of Alyeska site due to breaches in berms
	11722-23			Dabbs	CAGPL	Hydro-seeder used in Alyeska revegetation
	11743-44			Minning	CAGPL	Berming technique at borrow sites employed by Alyeska
80	11785-86	Nov. 4		Hollingworth		Foothills Fire hazard caused by dead agronomic species along Pointed Mountain right-of-way
	11803-04			Clark	CAGPL	Reconnaissance of slopes by Pufahl; case histories of slope stabilization techniques
	11824			Clark		Alyeska pipeline - elevation on piles above ground
	11841			Clark		Observations on Alyeska of effects of borrow operations on river regime
	11875-78			Minning		Borrow requirements of an oil pipeline
	11884			Minning	CAGPL	Environmentalists conferred in choice of borrow sites
81	12012-16	Nov. 5		Hemstock	CAGPL	Impact of an oil pipeline
	12031-39			Minning		Borrow requirements for oil pipeline
	12072-75			Harlan Minning	CAGPL	Borrow material removed from terrace areas in Alaska stockpile area of spoil - distance from river
	12114-15			Minning McCart	CAGPL	Reconnaissance of Alyeska borrow operations; report on trip and observations
	12119-33			McCart		Comparison of flood plain developments in Alaska with Blow, Firth and Malcolm rivers
82	12172	Nov. 6		Veale	CYI	Evidence of Parker re road use on the Alaska haul road to Prudhoe Bay - use at night
	12246-56			Scott	MVPI	Owen's report on Pointed Mountain pipeline - regulatory responsibility
	12253-54			Berger		Trans Canada Pipeline - bulldozer accidents and damage to pipeline; visit to seismic site where blow out occurred
	12322-27			Dabbs	CAGPL	Road to be wider than berm - example of Pointed Mountain
83	12331-35	Nov. 7		Scott Dabbs		Revegetation of Kotaneelee Valley, Pointed Mountain Pipeline; drainage and erosion control
	12489			Berger		Environmental inspectors, government, Alyeska
	12495			Scott Williams	CAGPL	Use of pumps in riverbed borrow pits, Alyeska
84	12541-42	Nov. 8		Anthony McCart	CARC	Alyeska report, gravel windrowing, active flood plain
	12554-55			McCart	CAGPL	Sedimentation control, Sarnia to Montreal line
	12556			Anthony McCart	CARC	Upland versus active flood plain borrow operations on Alyeska, North Slope
	12580-82			Bayly Minning	COPE/ITC CAGPL	Alyeska, upland versus active flood plain borrow sites
	12560-02			Bayly Williams	CAGPL	Alyeska camps, water requirements
85	12677-79	Nov. 12		Williams		Pipe coating, Alyeska pipeline
	12684-85			Bayly		Alyeska supplied list of chemicals used to agencies
	12704-07			Hemstock Williams	CAGPL	Electrical and oil-powered compressors, conversion to electricity; Canol line
	12724			Williams		Alyeska, lack of information, river crossings
85A	12764-72			Berger McCart Scott	MVPI	Alyeska, water shortage, North Slope
	12779			McCart		River crossing studies, B.C., Alberta and East Slope lines
	12788-89			McCart		Alyeska, small stream crossing techniques, water by-pass
	12790			Hemstock	CAGPL	Hydro-carbon liquids less desirable as compressor fuel until oil pipeline built
86	12848	Nov. 13		Claridge		Foothills Study of drainage and erosion control, Alyeska
	12964-65			Lawrence		Foothills Camp water requirements, Alyeska
	12969-72			Lawrence		Alyeska, sewage problems, staff

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86	12998 13002-03 13021 13031-32	Nov. 13	YK	Williams Williams Williams Berger Williams	CAGPL	Minimum working temperature, studies, Alyeska Cold weather working data, other pipelines Artificial lighting, construction, Alyeska Canol, construction periods
87	13118-20	Nov. 14		Lawrence	CAGPL	Alyeska, sewage lagoons, problems
88	13212-15 13252-53 13310-12	Nov. 17		Bouckhout Bouckhout Ryder Claridge	Foothills MVPI Foothills	Alyeska, environment, construction manual, training of workers Alyeska, garbage disposal problems Alyeska, water by-pass methods, river crossings
88-A	13394-97			Berger		Impact of oil pipeline
89	13538-39	Nov. 18		Dabbs	CAGPL	Vegetation surveys of other pipelines
90	13622 13637-70 13642 13645-46 13697 13760	Nov. 19		Dabbs Environmental Panel Hemstock Hemstock Bayly McCart	CAGPL CAGPL CAGPL COPE/ITC CAGPL	Helicopter seeding, Pointed Mountain line Impact of oil pipeline, corridor concept Many references made to Alyeska in hearings Canol pipeline helped shape present corridor location Ponding in slumped areas over pipe, Pointed Mountain Line Impact of oil pipeline on fish
91	13779-80 13864-65	Nov. 20		McCart Berger Hemstock	CAGPL CAGPL	Impact of fish, oil versus gas pipeline, cumulative impact of both Winter construction, Canol line
92	13982-85 14025-32 14056	Nov. 21		McCart McCart Hemstock Hemstock McCart	CAGPL CAGPL CAGPL CAGPL CAGPL COPE/ITC	Pointed Mountain, Kotaneelee river; siltation due to bad construction Alyeska, use it as a "living laboratory"; refusal by Alyeska officials; Inland Gas Pipeline; pipelines in Alberta and B.C. Alyeska; extent of siltation
93	14063-65	Dec. 1		Hemstock		Canol pipeline, reports, construction
94	14293-94 14319-20	Dec. 2		Berger Berger		Alaskan energy corridor; El Paso route Gas pipeline in Alaska
95	14364-70 14383-84 14427-28 14463	Dec. 3		Jakimchuk Marshall Bayly Berger Berger	CAGPL CAGPL COPE/ITC	Alyeska; incineration of garbage; attraction and nuisance of bears, foxes; firearm regulations; civil liberties Pointed Mountain; research Alyeska project - need for an all-weather road Impact of future development re: an oil pipeline down the Mackenzie corridor
96	14572	Dec. 4		Jakimchuk		Corridor concept - follow a gas right-of-way with an oil pipeline
97	14718 14736-44	Dec. 5		Hollingworth Hemstock	Foothills CAGPL	Fairbanks route will follow part of Alyeska Impact of oil pipeline as part of corridor concept
98	14958	Dec. 8		Scott	MVPI	Difference between gas and oil pipeline, perception by caribou
99	15157-64	Dec. 9		Environmental Panel	Foothills	Impact of oil pipeline; corridor concept
100	15191-94 15249 15310-11			Bouckhout Bouckhout Hayden	Foothills Foothills	Pointed Mountain line, Kotaneelee River crossing mitigative measures, slow decision-making Alyeska 5-mile no hunting corridor Alyeska, Pointed Mountain as test cases, river crossing techniques
101	15456 15465-66	Dec. 11		Zoltai Zoltai	CARC	Alyeska, refrigerated pipe jacket for burying in permafrost Restrictions on ROW width, some sections of Alyeska

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102	15585-87	Dec. 12	YK	Zoltai	CARC	Alyeska, dealing with sensitive permafrost areas; using steel poles for pilings
103	15745	Dec. 15		Walker	CARC	TAPS re: transport of Prudhoe Bay oil
104	15932	Dec. 16		Walker		Pointed Mountain pipeline
	15954			Marshall	CAGPL	Alyeska pipeline re: inner pipe coating
105	15978-82	Dec. 17		Steigenberger	CARC	TAPS, Alyeska
	16025			Marshall		Inland Gas Pipeline
	16132-33			Lent	CARC	Trans-Alaska Pipeline
	16145-52			Lent	CARC	Trans-Alaska Pipeline re: caribou experiments to design features of oil pipeline
106	16158-87	Dec. 18		Lent		Alyeska Pipeline; Trans-Alaska Oil Pipeline, reference to future gas pipeline re: Alaska; Siberian gas line re: Norilsk
	16183			Lent		TAPS re: parallel pipe, not impact on other caribou
	16214			Calef	CARC	Trans-Alaska Pipeline re: reaction of caribou during calving aggregation
	16255-77			Lent		Alyeska, Trans-Alaska Pipeline
107	16299-300	Jan. 12		McT-Cowan Berger	EPB	Oil pipeline to follow down a gas pipeline corridor; corridor concept; Trans-Alaskan Pipeline, carry of Prudhoe Bay oil
	16302-03			McT-Cowan Wilimovsky	EPB	Oil pipeline down the Mackenzie
108	16475	Jan. 13		Templeton	EPB	Alyeska, construction shutdown
	16515-16			McT-Cowan		Taming of wolves by those on the Alyeska pipeline route and haul road
	16540-55			Berger McT-Cowan Templeton Wilimovsky		Oil pipeline down the Mackenzie Valley; corridor concept; impact
	16574			Marshall	CAGPL	Trans-Mountain Oil Pipeline goes through Jasper National Park
109	16603	Jan. 14		Templeton		Alyeska; construction oil spills
110	16887	Jan. 15		Carter Berger Lent	CAGPL	Elevated oil pipeline, caribou crossings, barriers
111	16945-52	Jan. 16		Lent	CARC	Alyeska, no monitoring of oil field itself; wildlife management, enforcement agencies in Alaska; shortage of biologists, other personnel; increased access to hunting
C-24	2451-52	Aug. 23	NB	H. Deneron	Citizen	Pointed Mountain re: employment for native peoples
	2465-67			M. Miller	Citizen	Alyeska pipeline re: boom phenomenon
C-25	2484-85	Sept. 8	FS	Dixon	NWT CC	Monetary spending habits of pipeline workers
	2559-60			Berger		Alyeska pipeline - social impact as subject of upcoming hearing
C-26	2627	Sept. 9		Antoine	Citizen	Oil pipeline in Alaska re: social conditions
	2639-40			Lafferty	Citizen	Sinai Desert into Saudi Arabia re: amount of land used for pipeline; natural gas pipeline from Fort St. John to Hope, B.C.
C-27	2723	Sept. 10		Fizer	Citizen	Alyeska re: Union Halls
	2738			Cowie	Citizen	Fraser Valley pipeline re: benefits to farming community
	2770-71			Berger		Trans Canada Pipelines, Kingston; Alyeska Pipeline, Alaska re: impact of construction
C-28	2793	Sept. 10	Wr	H. Hardisty	Citizen	Alaska oil pipeline re: higher cost of living in community
	2804			Williams	Citizen	Pointed Mountain Pipeline re: lack of employment after completion
	2829			E. Hardisty	Citizen	Pointed Mountain Pipeline re: number of people employed
C-30	2892	Oct. 6	PP	Osing	Citizen	Alaska Pipeline re: wages, labour shortages
	2958			Bolmer	Citizen	Alaska Pipeline - short-term employment benefits

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C-32	3059	Oct. 8	FR	Mandeville	Citizen	United States Army pipeline from Norman Wells re: surplus of game
C-33	3113-14 3116-17 3150	Oct. 9	FS	Berger Mirosh Klengenberg	 Foothills Citizen	 Oil pipeline to follow gas pipeline Oil pipeline to follow gas pipeline Alaska pipeline re corridor concept, another pipeline beside it
C-34	3192 3276-79	Oct. 15	YK	Mirosh Russell	 Citizen	 CANOL pipeline re: Bell Roch facilities Trans Canada Pipeline re: land ravaging, wages, human transportation corridor; Alaska Pipeline re: policing and social problems
	3283 3331-32 3354-55	Oct. 16		Russell Henne Berger	 Citizen	 Trans Canada Pipeline re: pressure, explosions CANOL pipeline re: impact on ecology; money spent, social and cultural problem Alaska pipeline re: wages; pipeline in Adriatic from Trieste to Vienna re: wages
	3362			Watson	Citizen	Alaska pipeline re: social disaster among native people
	3373			Stephansson	Citizen	Objection to Canol Road construction during war years
C-35	3392-93 3393-94 3399	Oct. 22	LI	Littledale Berger Wheeler	Foothills MVPI Citizen	Westcoast Transmission construction, operation experience - "Pointed Mountain pipeline" Pipeline construction techniques used in permafrost in Alaska, Soviet Union Alyeska Pipeline social, cultural impact on natives
C-38	3630-31 3633-35 3652-55 3675-76	Feb.12 Feb.15	In	Berger Hill Allison Koe	 Citizen Citizen Citizen	 Pipeline construction in Alaska - social impact Pipeline construction over permafrost in Russia Social impact of Alyeska pipeline Alaska Pipeline - alternate methods of transporting hydrocarbon
C-39	3716 3726 3741-42	Feb.18		Hill Hill English	Citizen Citizen	Canol Pipeline, evidence of tolerable environmental disturbance Alaska Pipeline, familiarization of officials to impact of pipeline construction Alaska pipeline, rise of crime, drugs, prostitution, alcohol
115	17579	Jan.23		Berger		Gas plant operators, Pointed Mountain Line
117	17904	Jan.26		Marshall Berger	CAGPL	Construction on Sarnia, Montreal line; workers on Alyeska line
118	17920 17936	Jan.27		Bayly Sider Bayly Sider	COPE/ITC GPC-D-G	Alyeska company, transportation of personnel Alyeska staging, impact on Valdez
123	18743-44	Feb.12		Yates Elkin	MVPI MVPI	Delta regional planners' trip to Alyeska pipeline - observation of overall impact
126	19144-55	Feb.16		Pettigrew	COPE/ITC	Interprovincial pipeline failure, 1974 - summary of interprovincial contingency plan
131	19904-10 19927-28 19942-49 19958	Mar.17	YK	Williams Williams Williams	CAGPL CAGPL	Observing Alyeska experiences; water supply problems North Slope; snow fence use to collect snow Alyeska experience with low light conditions, use of flood-lights Effects of cold on workers, Trans-Canada Pipeline Alyeska; Christmas leave, Alyeska Crossing of Strait of Makanak about same size as Shallow Bay crossing
133	20196-205	Mar. 23		Environmental panel	CAGPL	Potential impacts of an oil pipeline in same corridor
134	20211-15	Mar. 24		Webb Jakimchuk	CAGPL CAGPL	Impact of oil pipeline along same corridor; Alyeska experiences with workers feeding animals
135	20490-94 20550	Mar. 25		McCart Hemstock	CAGPL CAGPL	Possible effects on fish of oil pipeline; preferred routes Preference for Delta route if oil pipeline follows corridor
138	20942	April 6		Norton	MVPI	Effects of Trans-Alaska Oil Pipeline construction phase on fish and wildlife management

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139	21127-31	April 7	YK	Simmons Norton	MVPI MVPI	Alaska pipeline - inadequate training of construction personnel re environmental concerns; biologists - need for training in construction process
142	21532-33 21542-49 21645-46 21661-62	Apr. 13		Virtue Virtue Virtue Virtue	Nortran	Alberta Gas Trunk Lines Alberta Gas Trunk Lines, training program Alyeska Pipeline Nortran trainees on Montreal-Sarnia pipeline
143	21707-09	Apr. 14		Virtue		Alyeska, counselling services
146	22322-23	Apr. 27		Young	NWT IB/MA	Polar Gas pipeline
147	22444	Apr. 2		Richardson	NWT IB/MA	Alyeska, quota on native hiring
150	22994-97	May 4		Hollingworth	Foothills	Statement by Kelly Gibson to West Coast Transmission shareholders
151	23077-81 23099 23134 23146-47 23157-60	May 5		Irving McClellan Cruikshan Johns	CYI CYI CYI CYI	Alyeska, salvage, preservation of archaeological finds Building of Canol pipeline, impact on local native people Canol pipeline project given boost by Alaska highway Canol pipeline, abandonment
152	23280-83	May 6		Jacquot	CYI	8" pipeline from Fairbanks to Haines, Alaska
153	23412-13	May 7		Sharp	CYI	Eight-inch line from Haines, Alaska to Fairbanks - native employment
C-40	3882-84	Feb.23	AK	Gordon	Citizen	Canol oil line Alyeska Pipeline, impact on Fairbanks, Anchorage, Barrow
C-46	4458-60	Mar.11	PAUL	Berger		Alyeska, impact of pipeline on social life
C-49	4775-76	May 10	VAN	Maultsaid	Citizen	Polar Gas Pipeline
C-50	5000	May 11		Antonides	Citizen	Alberta Gas Trunk Line; statement to NEB hearings
C-51	5104-05 5174-86	May 12		J. Stokes P. Chataway	Citizen Citizen	Possible line for Alaskan oil, Prince Rupert to Edmonton; Trans- Alaska, thievery Slides of Alyeska pipeline
C-52	5379	May 13	CAL	J. Rymes	Citizen	Alyeska, shut down in December, January
C-53	5454 5548	May 14		Pearce Irye	Citizen Citizen	In 1950's - major pipelines linked Alberta's reserves to distant markets Northwest Pipelines
C-54	5605 5633-41 5697-701	May 17	EDM	Berlie Swift Leeson	Citizen Citizen Citizen	Polar Gas Pipeline, shoreline of Hudson's Bay Great Canadian Oil Sands Alyeska, related social problems
C-55	5758-59 5786 5932	May 18		J. Paschen Berger B. Jahrig	Citizen Citizen Citizen	El Paso, organizations in support; West coast Transmission Alyeska, no construction in December, January Alyeska, impact on Fairbanks
C-56	6132	May 19	REG	J. Roberts	Citizen	Canada - Montana Pipeline
C-58	6321-28	May 25	TOR	D. Duncan	Citizen	Trans Canada Pipelines, construction, location, protection of environment across Canada
155	23770-72	June 30	YK	Forrest	NWT IB/MA	Trans-Alaska Pipeline Systems, native land claims, injunctions against the project
155-A	23837-48 23848-60 23860 23864-83 23889			Jelliss Jelliss Jelliss Jelliss Jelliss	NWT IB/MA	Pointed Mountain project; Westcoast Transmission; gas prices; rent revenue Pointed Mountain gas, Westcoast Transmission Federal Government granting ROW to West-coast Transmission, Nov.'71 Pointed Mountain, Westcoast Transmission Sale price to Westcoast Transmission

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C-60	6648-50	May 27	TOR	Berger		Trans-Alaska Pipeline; Northwest Pipeline Corporation, Fairbanks route
	6672-74			E. Welsh	Citizen	Problems, dangers of rapid development - Alyeska pipeline
C-63	7035	Jun 1	MTL	Ford	Citizen	Texas Eastern Transmission
	7141-42			Langston	Citizen	Trans-Alaska Oil Pipeline, welding faults
C-64	7249	June 3	OTT	Birnie	Citizen	Trans Canada Pipeline
	7357-58			Rutherford	Foothills	Alberta Gas Trunk Line, Trans Canada Pipelines, transmissions needed to expand market
C-66	7631	June 7	CH	G. Cannon	Citizen	Natural gas pipeline in Pointed Mountain Gas Fields, proven gas reserves figures
C-67	7680	June 8	HAL	J. Lotz	Citizen	Probability of Polar Gas pipeline
	7696-704			R. Rohmer	Citizen	Prudhoe Bay natural gas pipeline from Alaska across Canada to United States; Polar Gas Project route
	7794			S. Mayo	Citizen	Labrador Pipeline, cost to Canada
159	24302-26-A	July 7	YK	Boorkman	CAGPL	Alyeska, effect on population growth of the state, provision of support services, employment opportunities; loss of employees in businesses, services to the pipeline; effect on state, local budgets, inability to raise revenues to support expenditures; housing supply not keeping up with demand; effect on crime, law enforcement; inflation, cost of living rates; native employment; impact on small native villages
	24327-54			Boorkman	CAGPL	Pipeline boom, Alaska, greatly accelerated immigration; high rate of inflation, high cost of living; need for new sources for public financing; hiring, union practices; Local Hire Act, 1972, problems with enforcement
159	24455-95	July 7		Boorkman D. Weinstein	CAGPL	Alyeska, in-migrants, transients; size of labour pool, Alaska; government support; growth in service sector; location of hiring halls; problems in supplying sufficient housing
	24497-526			Boorkman J. Weinstein D. Weinstein Trusty	CAGPL CAGPL	Alaska Pipeline Authorization Act; employment of women, Alyeska; increase in family break-downs, child abuse; impact on small businesses, education; need for day care facilities
159-A	24534-62			Boorkman Trusty	CAGPL	Alyeska, effect on native land claims; unemployment rate; impact of in-migration, ability to provide services
	24563-93			Boorkman Trusty D. Weinstein J. Weinstein		Alaska, population in-migration; location hiring halls; relationship of inflow to U.S. unemployment rate; unemployment after project; impact on native communities
	24594-95			Boorkman		Alyeska, question re government backing of capital borrowings
161	24791	July 12		Williams	CAGPL	Alyeska Project Agreement, training and employment of Alaskan residents
	24812-15			Carlson	CAGPL	Trans-Canada Pipelines, on-the-job training, 1950's
	24851-55			Trusty		Alyeska, underestimation of number of people that would be attracted to Alaska; no planning for in-migration
	24896-98			Hollands	CAGPL	Trans-Canada Pipelines, local hiring
162	25012-14	July 13		Hollands		Alyeska, single collective agreement with unions involved; on-the-job trainees, number, effect on efficiency
	25027-29			Hollands		Alyeska, use of Telex, communication between job situation and community-based liaison person
	25045			Trusty	CAGPL	Alyeska, single status camps, families following employees to camp area
	25086-87			Trusty		Alyeska, massive in-migration, local hiring, no requirements for workers to take leave outside of the state - impact on the Alaska economy

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164	25338-45	July 15	YK	Hobart	CAGPL	Alyeska, problems with enforcement, policy requiring workers to remain in camps; union insistence, buses to take people into town
	25486-88			Trusty	CAGPL	Alyeska, living arrangements for men, women, married couples
165	25546-47	July 19		Jensen	Foothills	Socio-economic impact of Alyeska compared to Foothills
	25612-15			Reesor Burrell	NWT/AM Foothills	Trans Canada Pipe's provision of gas to surrounding communities
166	25725-26	July 20		Ellwood	Foothills	Law enforcement, Alyeska
	25745			Ellwood		Alyeska experience, recommend taverns at construction camps
169	26347-48	July 23		Ruttan	NWT IB/MA	Example of Alberta Gas Trunkline not creating spin-off industries
C-68	7881	July 16	FP	Ellwood	Foothills	Westcoast Transmission, Alberta Gas Trunklines, connections with Foothills pipeline
	7906-07			J. Bonnetrouge	Citizen	Alyeska, inflation in Alaska, effect on old age pensions
C-71	8020	Aug 10	RE	G. Blondin	Citizen	Alaska Pipeline, the same effects will happen in NWT
C-72	8078	Aug 11		A. Arrowmaker	Citizen	Opposed to pipeline in NWT because of what happened in Alaska
	8094			A. Lisk	Citizen	Does not want Alaska situation repeated in NWT
	8102			F. Mackenzie	Citizen	Alaska Pipeline, people hired from the south
	8114			J. Migwi	Citizen	Hazards of a pipeline like Alaska Pipeline
	8137			N. Black	Citizen	Pipeline in NWT will be the same as pipeline in Alaska
C-73	8200	Aug 12	LIM	I. Zoe	Citizen	People from South moved in to work on Alaska Pipeline, not much left for Dene
C-75	8344	Aug 21	CL	Blair	Foothills	Other ones are not seen to be bad
170	26389-90	Aug 16	YK	MacLeod	Foothills	Alyeska, use of multipliers, projection of secondary job creation
	26393-94			MacLeod		Alyeska, multiplier effect
171	26579-90	Aug 17		Dixon	MVPI	Alyeska, effect on communities; creation of jobs, services
	26608-19			Dixon		Alyeska, lack of support to Impact Information Center
173	26897-903	Aug 19		Kylio Steeves	COPE/ITC CAGPL	Alaska, impact of southern in-migrants, rise in health, alcohol, family problems
174	27144-46	Aug 20		Blair	Foothills	Alaska Highway pipeline, benefits, effect on Mackenzie Valley Pipeline: El Paso project
	27150-68			Blair	Foothills	Alaska Highway project before Mackenzie Valley project chronologically
	27176-86			Blair		Northwest Alaska Highway project, depending on Maple Leaf scheme
	27199-202			Blair		Start-up periods between Alcan Highway route and Mackenzie Valley route
	27209-17			Blair		Alcan project summary, similarities between CAGSL project and Alcan project
178	27613-15	Aug 26		Pritchard	MVPI	Alyeska, use of preliminary and early impact studies for study in impact, social, economic
180	27871-72	Sept 7		Nessel	MVPI	Inter-Provincial Pipelines, Sarnia to Montreal, crash training program
	27877			Nessel		President of Banister Pipeline obtained skills from on-the-job training
	27891-92			Nessel		Failure of quota system on Trans-Alaska Pipeline
	28013			Berger Nessel		Pointed Mountain: construction, union, operation of plant, non-union
	28017-18			Nessel Hodson	MVPI	Alaska Pipeline, owner party to collective agreement; unions negotiating with contractors, not clients
181	28041-42	Sept 8		McCambly	MVPI	El Paso route, important for greater revenues for Canada; Trans-Cabada, looping
	29091			McCambly		Southern Alberta, 20 years ago, difficulty finding qualified Canadian workers

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181	28126	Sept. 8	YK	Reimer	MVPI	Problem with government scheduling with so many similar projects
	28176-77			Reimer		TransCanda, resistance to unionization
	28178-79			Goudge Berger Reimer	MVPI	Montana Transmission System unionized AGTL, West-coast, TransCanada are not
182	28244-45	Sept 9		Forth	MHA/NWT	Alaska Pipeline, impact of rapid development growth related problems; housing shortage, family break-down, increased juvenile crime, suicide rate
	28276-88			McCombs	MHA/NWT	Impact of Alyeska Pipeline on Fairbanks community, effects of rapid population growth
	28357			McCombs		Mental health problems generated during buildup and construction of the Alyeska Pipeline
174	27209-17	Aug. 20		Blair	Foothills	Alcan project summary; similarities between CAGSL project and Alcan project
178	27613-15	Aug. 26		Pritchard	MVPI	Alyeska, use of preliminary and early impact studies for study on impact, social economic
186	28820-21	Sept. 16		Basham	MVPI	Trans-Alaska Pipeline Systems, examine union practices to draw implications for Canada
	28859			Basham Braden	MVPI	Alyeska - apprentice employment, Alberta - suggested apprentice journeymen ratios
187	28980-81	Sept. 17		Raddi	COPE	Alcohol problems in Alaska since the pipeline
	29015			Bruce	COPE	Cost of treatment and rehabilitation facilities in Alaska due to pipeline
	29067-68			Bruce		Behavioral problems handled by contractors and labour unions; Almea Inc., working to alleviate alcoholism on Alyeska pipeline
188	29185-88	Sept. 21		Mrs. Worl	COPE	"The Alaska Pipeline, the Politics of Oil and Native Land Claims" by M.C. Berry; socio-economic impact of pipeline construction
	29204			Neakok	COPE	Trans-Alaska Pipeline within North Slope Borough
	29213-17			Neakok		Trans-Alaska Pipeline, decision to build; proposed cost, actual cost; impact on North Slope Borough
	29238-45			Lincoln	COPE	Impact of Alaska Pipeline on natives: alcoholism; effect on subsistence off land; threat to disrupted native culture; increase in crime, related to alcohol
189A	29485-95	Sept 22		R. Worl	COPE	Trans-Alaska Pipeline, impact on Inuit of Alaska
	29563-65			Mrs. Worl	COPE	Alaska was not ready for Trans-Alaska pipeline, should have been delayed, National Environmental Protection Act, to assess impact on environment of Trans-Alaska Pipeline; not as much participation on pipeline by Alaskans as anticipated
	29697			Berger		Number of workers needed to build Alyeska
192	29880-937	Oct 4		Baring-Gould	MVPI	Valdez, prior to and after construction of Alaska pipeline
	29937			Bennett Baring-Gould	MVPI	Omar - Organization for management of Alaska's resources, promoting El Paso project
	30012-15			Krauss	MVPI	Impact of Alyeska Pipeline on native language if there had not been Language Rights Act in Alaska
185	28586-88	Sept 15		Schaefer	COPE	Alaska: Overtaxed health care facilities and personnel; rise of venereal disease, alcohol-related violence and accidents; higher wages have drawn personnel from hospitals to pipeline construction
	28630-34			Noble	COPE	Increase of alcohol-related violence and accidents in Alaska; increase in use of drugs, venereal disease, syphilis; unsanitary living conditions, overcrowding; high rate of infant death

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194	30288-92	Oct.6	YK	Templeton	EPB	Involvement with TransCanada Pipeline, gas installations in Manitoba, Canol pipeline
	30333-35			Doyle	EPB	Agency timing re final design review, letting of contracts similar to Alaska pipeline
	30383			Hemstock	CAGPL	Canol pipeline, oil used to power pumping stations
	30443-43A			Wylie	MVPI	Alyeska project, labour force
195	30517	Oct.7		Mirosh	Foothills	Low productivity on Alyeska pipeline during winter
	30576			Mirosh		Alyeska, ditching conducted from a gravel pad
	30590-98			Fowler	CAGPL	Pipeline work by Brown and Root at Prudhoe Bay, oil, gas pipelines, gas line built from snow road
	30620-41			Johanson Fowler	CAGPL	TransCanada Pipeline, use of Banister model 710 ditcher; Alyeska pipeline, north slope construction experience, warm-up shelters used to counteract windchill; welding conducted at -110°F
	30650-52			Fowler		Alyeska, length of Christmas shutdown
	30658-66			Daniels	CAGPL	Alyeska, snow road construction on north slope, welding, ditching rates
	30672-75			Dau	CAGPL	Alyeska, additional backfilling manpower requirement due to blasting
195A	30709-11			Walker	CAGPL	TransCanada Pipeline, employment of shelters in northern Ontario
	30720-36			Fowler Daniels Dau		Cannot apply Alyeska winter experience to buried gas pipeline; use of backhoes for ditching
196	30770-75	Oct.12		Skinnarland	CARC	Role in Trans-Alaska Pipeline Project; experience can be used to predict impacts of Mackenzie Valley pipeline; potential impact of construction; agreement between US government and pipeline consortium to build Alaska oil pipeline; implementation of pipeline stipulations
	30831			MacLeod	CARC	Pointed Mountain pipeline, last pipeline before Northern Inland Waters Act
	30880			Berger		Estimated and actual cost of Alaska pipeline
	30965			Berger Skinnarland	CARC	No ombudsman on Alaska pipeline
197	31036	Oct.13		Norton	MVPI	Failure of stipulations regulating construction of Alyeska pipeline; failure of JFWAT
	31068-77			Norton		Full gas line phase of trans-Alaska pipeline
	31109			Veale Rogol	CYI MVPI	Monitoring public interest aspect of Alyeska pipeline construction
	31145			Bayly Norton	COPE/ITC	Alyeska responsible for actions of its contractors
198A	31409-11	Oct.14		Christie	MVPI	Alyeska pipeline, counselling for those unfamiliar with industrial jobs: union hiring hall procedures, camp life, identification of counsellor; placing minority employees on project
	31417-21			Christie		Residency law in Alaska, ensures Alaskan residents employment priority on Alyeska pipeline; problems when law was not enforced
	31424-27			Christie		TAPS project, holding area in Anchorage and Fairbanks to orientate Alaska natives; operating and procedural problems
199	31553-66	Oct.15		Zemansky	COPE	Alyeska, mishandling of oil during construction; Happy Valley oil spill; Toolik and Galbraith oil spills; lawsuit filed against Alyeska
	31566-72			Zemansky		Alyeska, violation of state's water pollution control laws; state waste disposal permits, lack of enforcement; failure of Alyeska to implement erosion control and revegetation plan
	31577-80			Zemansky	COPE	Formation of Arctic Environmental Council to investigate Alyeska; Alyeska's lack of co-operation; lawsuits against Department of Environmental Conservation, Alaska Pipeline Office, Environmental Protection Agency
201	31789	Nov.16		Marshall	CAGPL	Banister Pipelines to construct 36" loop to main transmission line in Northwestern Alberta in winter

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XVI	1657	Mar.11	YK	Dau	CAGPL	Richards Island	
	1662			Dau		Richards Island, Calgary	
	1663-64			Dau		Old Crow Flats, Richardson Mountains	
	1688			Mollard	CAGPL	Old Crow Flats	
	1721			Williams	CAGPL	Richards Island, Langley Island, Shingle Point, Shallow Bay	
XVI	1779-94	Mar.12		Gibbs	Foothills	Ebbutt Hills, Red Knife Hills	
				Dau		Watson Lake, Fort Nelson, Richards Island, Dawson City, Camsell Bend, Edson, Alberta	
	1846			Mollard		Peel Plain, Peel Plateau, Franklin Mountains	
						Gibson Gap	
XVII	1891	Mar.13		Williams		Burnt Island	
	1976-78			Mollard		Little Chicago, Caribou Hills, borrow deposits	
XVIII	2023-24	Mar.14		Bayly	COPE/ITC	Herschel Island, Shallow Bay	
	2034			Bayly		Richardson Mountains, Big Eddy	
	2052			Scott	MVPI	Ebbutt Hills	
				Dau			
	2076			Dau		Camsell Bend	
XXI	2507-12	Mar.19		Berger		Shallow Bay	
				Hollingshead	CAGPL		
XXII	2541-47	Mar.20		Clark	CAGPL	Ebbutt Hills	
	2638-41			Anthony	CARC	Shallow Bay	
XXVI	3201	Apr.9		Scott		Richards Island, Tuktoyaktuk, McKay Paper	
XXVII	3360	Apr.10		Morgenstern	CAGPL	Fairbanks, Alaska	
XXVIII	3480	Apr.11		Morgenstern		Norman Range	
XXIX	3679	Apr.14		Reid	CAGPL	U.K. and Russia - manufacture of pigs	
	3691			Holmberg	CAGPL	England - testing of fractures initiated at high speeds	
XXXIII	4262	Apr.21		O'Rourke	CAGPL	Burnt Island crossing	
	4278-79			O'Rourke		The Ramparts, barging on Mackenzie River	
XXXIV	4407	Apr.22		Dau	CAGPL	Komakuk Beach, Old Crow	
	4419-22			Dau		Komakuk Beach, Stokes Point	
	4428-29			Dau		Komakuk Beach, Shingle Point	
	4438-39			Dau		Old Crow Flats, Little Flats, Komakuk Beach	
	4490-91			Williams	CAGPL	Komakuk Beach, Shingle Point	
	4498			Veale	CYI	Klokut Site, Old Chief Site	
	4507			O'Rourke	CAGPL	Skagway, Whitehorse	
XXXV	4563-64	Apr.23		Dau		Komakuk Beach, snowfall	
	4607			Williams		Churchill, Gillam, Edmonton, Seebe, ditcher tests	
XXXVII	4714-16	May 13		O'Rourke		Komakuk Beach, Shingle Point, Skagway, Whitehorse, Welland, Vancouver, Hamilton	
	4721			O'Rourke		Komakuk Beach, Shingle Point	
	4730			O'Rourke		Providence Rapids, Fort Simpson	
	4741-43			Bayly	COPE/ITC	Shingle Point	
	4759			Bayly		Shallow Bay, Reindeer Channel, Langly Channel	
	4801-02			O'Rourke		Welland, Ontario	
XXXVIII	4825	May 14		Williams		Richards Island	
	4952			Williams		Komakuk Beach	
XXXIX	5022	May 15		Williams		Holmes Creek, temporary road off r-o-w	
	5049			Williams		Ramparts, close to alternative camp site	
	5065			Lucas	CARC	Brooks Range, Alaska	
	5192-5202			Fielder	CAGPL	Moscow, Donetsk, Tuyman, Nadym, Yakutskaya	
40	5265	May 16		Fielder		Anaktuvak Pass, Alaska	
41	5274-83	May 20		Fielder		Taas-Tumus, Yakutsk, Pakrovsk, Messoyakha, Noriesk, Punga, Moscow, Medveyzhye Ukhta, USSR	
	5309			Hurd	CAGPL	Old Crow Flats	
	5337			Berger		Yakutskaya	
	5377			Lucas	CARC	Northwestern Ontario, Hearst, Longlac, GERALTON, Pierremore, Beardmore	
42	5408	May 21		Fielder	CAGPL	Tuyman, Nadym, USSR	
	5426-30			Fielder		Taas-Tumus, Pakrovsk, USSR	

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44	5863 5866-76	May 23	YK	Bayly	COPE/ITC	Richardson Mountains Peel Plateau
45	5896-5900 5953	May 24		Bayly Horte	CAGPL	Big Eddy Adgo area
46	6066-68 6069 6145	June 2		Craik Craik Bliss	EPB	Richardson Mountains, Porcupine River, proposed route alignment Peel Plateau, Old Crow Mountains; EPB report #1 Caribou Hills, Campbell Lake Preserve
47	6176-82 6198-6202	June 3		McT-Cowan McT-Cowan	EPB	Camsell Bend, Brackett Lake, Kendall Island, Old Reindeer Station, Sitidgi Lake; re birds Old Crow Flats, caribou, Ogilvie and Richardson Mountains, caribou migration
48	6418	June 4		McT-Cowan		Kugmallit Bay, marine mammals
49	6453 6545	June 5		Berger Horte		Copper Center, Anchorage, Fairbanks, Valdez Old Crow Flats, part of Arctic National Range
50	6667-68 6677 6694 6699	June 6		Horte Horte Horte Horte		Komakuk Beach, spread camp, Shingle Point Kavik, gas reserve Old Crow Flats, water table Big Eddy compressor station
C-I	13 20-26 28 44 60-63 61 64 66	Apr.2	Aklavik	Thrasher Elanik Paul Hemstock Headpoint Tardiff Malanga Malanga	Citizen Citizen CAGPL Citizen	Demarkation Point Richardson Mountains, Kendall Island, Shallow Bay Shallow Bay Taglu, Richards Island Herschel Island Big Eddy Shallow Bay Tent Island
C-II	70 71 72 102 111-12 124 125	Apr.3		Sittichinli Sittichinli Sittichinli Gordon J.Sittichinli A.Gordon A.Gordon	Citizen Citizen Citizen	Leclaire House, Herschel Island Shallow Bay Kittagazuit Big Eddy, Herschel Island Shallow Bay, Kugmallit Bay Richardson Mountains, Shallow Bay Leland Valley
C-6	508-09 518 522-523	May 30	Hay River	Martel Nahanni D.Sonfrere	Citizen Citizen Citizen	Buffalo River Point de Roche Caribou Mountain
C-7	642 658-59	June 24	F.F.	Naedzo J. Bayah	Citizen Citizen	Good Hope Bay Caribou Point
C-8	680 686 710-11 714-15 734	June 25		Touchou Denis C.Nielly C.Neilly Berger	Citizen Citizen Citizen	Coppermine McVicar Arm Bay, Darnley Bay, McIntosh Bay Fort Radium Caribou Point, Big Point, Smith Arm Keith Arm, McVicar Island - Great Bear River
C-9	784 788-89	June 26		Batan J. Bayah	Citizen	Russell Bay, Deer Pass Bay, McGill Bay Charley Lake, Deer Pass Lake, Russell Bay
C-10	856-58	June 27	F. N.	Meneko	Citizen	Good Hope Bay, Coppermine
C-11	996-97 998 1002 1010 1035	July 8	F. McP.	C. Koe C. Koe M.Vittrewka J. Kay Elwood	Citizen Citizen Citizen Citizen Foothills	Thousand Dollar Lake, Basoo Creek Destruction City Prudhoe Bay, Caribou herds, Vitienlie Destruction City Ebbutt Hills
C-12	1068-77	July 9		N. Colin	Citizen	Dawson City, Little Wooden River, Richardson Mountains, Peel River
C-13	1201 1209-18 1219	July 10		W.McDonald J. Ritter C. Koe	Citizen Citizen Citizen	Point Barrow Peel River, Bonnet Plume River Lauchoux names given to locations of native people

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C-13	1223	July 10	F. McP.	J. Semple	Citizen	Dawson City
	1236			C.Carmichael	Citizen	Hungry Lake
	1258			J. Charlie	Citizen	Husky Lake
C-14	1271-72	July 11	O. C.	J. J. Kaye	Citizen	Old Crow Flats
	1278			L. Charlie	Citizen	Old Crow Flats, Little Flats
	1285			P. Lord	Citizen	Whitestone Village
	1295			C. Charlie	Citizen	Old Crow Flats, Johnson Creek
	1297			C. Charlie	Citizen	Klo-Kut
	1298			C. Charlie	Citizen	Caribou Lookout
	1331-32			C. Abez	Citizen	Johnson Creek
	1345-46			P. Charlie	Citizen	Crow Mountain, Johnson Creek
C-16	1479	July 13		R. Bruce	Citizen	Rampart House, Carcross
	1481		P. Nukon	Citizen	Whitehorse	
	1501-02		J. Kendi	Citizen	Whitestone Village, Dawson City	
	1523		P. Benjamin	Citizen	Sachs Harbour, Herschel Island	
	1546		E. Abel	Citizen	Johnson Creek	
	1557-58		T. Allen	Citizen	Haines Junction, Watson Lake	
	1643-47		P. Lord	Citizen	Caribou Lookout	
	1649-51		M. Tizya	Citizen	Herschel Island	
C-17	1678-80			W. Sassie	Citizen	Fisherman Lake
	1691-95			P. Nahanni	Citizen	Pettitot, Blackwater, Fort Nelson
56	7800-04	Aug. 18	YK	Berger		Inuvik; Herschel Island; Firth River; Old Crow; Fairbanks; Prodhoe Bay; Copper Centre Area; Gulkana; Glennallen Bay; Valdez; Anchorage; Whitefish; Tuktoyatuk Peninsula
	7854			Horte	GAGPL	Fairbanks
59	8349	Aug. 21		Fawcett	Foothills	Little Chicago; Gibson Gap; restriction in width of corridor concept
	8383		Drew	Foothills	McConnel Range; Foothills route change; steep-sided gullies	
	8398-99		Mirosh	Foothills	Ebbutt Hills; proposed IBP site	
	8445		Drew	Foothills	McLean Creeks, Francis Creeks; Photo-mapping; Mollard interpretation	
60	8509	Aug. 22		Bouckhout	Foothills	Norman Range; adjustments in Foothills route
	8522		Bouckhout	Foothills	Smith Creek; adjustments in Foothills route	
	8557-59		Fawcett	Foothills	Little Chicago	
	8559		Fawcett	Foothills	Yellowknife, Pine Point	
	8580		Mirosh	Foothills	Ebbott Hills, Zama	
	8583-87		Scott Mirosh	MVPI	Hart Lake, IBP site	
51	6748-50	Aug. 11	WH	Berger		Richardson Mts; Brooks Range; Fairbanks; Fort Yukon
	6757-58			Smith	Gov't. Yukon	Dawson City, Alaska
	6779-85			Hemstock	CAGPL	Marsh Fork, Brooks Mountain Range; Fort Nelson and Fort St. John B.C., Eagle Plain; Fairbanks, Fort Yukon
	6795-96			Hemstock		Anchorage Valdez, Skagway
	6809			Hemstock		Brooks Range, Yukon flats
	6810-11			Hemstock		Dawson, Watson Lake
	6827			Hemstock		Edge of the shield corridor; Wood Buffalo Park; Gold Lake Bombing Range
52	6895	Aug. 12		Hemstock		Gibson Gap (source of Donnelly River)
	6921-22		Dau	CAGPL	Pointed Mountain	
	6930		Banfield	CAGPL	Bethell, Brooks Range, Caribou Mountain - Caribou areas	
	6948		Clark	CAGPL	Big Delta	

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	7052			Banfield	CAGPL	Ogilvie Mountains, McDougall Pass		
	6992-95			Banfield		Ft. Yukon		
	6997			Banfield		Kluane Lake National Park		
	7005			Banfield		Fairbanks, Fort Yukon		
	7007			Williams	CAGPL	Brooks Range, Richardson Mountains .		
53	7082	Aug. 13		Williams	CAGPL	Chandalar Valley		
	7090		Williams		Eagle Plain Basin			
	7092		Williams		Tuk peninsula			
	7093		Williams		Herschel Island, Barrow, Arctic Slope Basin			
	7095		Williams		Eagle Plains			
	7108		Williams		Big Delta			
	7140		Banfield	CAGPL	Brooks Range			
	7149-51		Hemstock	CAGPL	Anderson Craton			
	7158-59		Clark	CAGPL	Richardson Mountains			
	7180		Joe	CYI	St. Elias Ice Field			
	7268-69		Collins	CARC	Point Barrow			
	53A		7358			Geist	CARC	St. Elias range Mount McKinley
			7374			Geist		St. Elias Range
7387				Geist		Nisling Range		
54	7412	Aug. 14		Geist		Banff National Park re: Dall sheep		
	7418-19			Geist		Glenlyon Range, St. Cyr Range, Dawson Range		
	7423			Geist		McArthur Range		
	7427			Geist		Alaska; Skoog		
	7435			Geist		Kluane National Park; IRP sites		
	7441			Banfield		Naval petroleum reserve No. 4		
	7444-45			Banfield		Kaminuriak; Sarangetti Plain, Hudson Bay		
	7463-64			Weeden	CARC	Brooks Range, Cape Lisburne, Kaktovik, Barter Island		
	54		7467-68	Aug. 14	WH	Weeden	CARC	Prudhoe Bay, Kemik, Kavik
			7472			Weeden		Brooks Range; Yukon - Tanana Uplands
			7480-81			Weeden		Arctic Coastal Plain, Arctic Foothills, Brooks Range, Porcupine Plateau
7483-85		Weeden				Marsh fork of the Canning River; Continental Divide, Porcupine Plateau; Brooks Range		
7489-90		Weeden				Wind River Valley; Yukon Flats Range		
7511		Weeden				Big Delta		
7520		Weeden				Seward, Anchorage, Fairbanks, Seattle		
7522-23		Parker	CARC			Windy Pass, Broad Pass, Isabel Pass, Prince Rupert, Fairbanks, Valdez; highway systems and linkages in Alaska		
7525-27		Parker				Anchorage, Fairbanks - rail linkages; Livengood Circle; Matanvska Valley, Kenai Peninsula - transportation facilities		
7531-33		Parker				Anaktuvik Pass; Dietrich Pass		
7561		Parker				Brooks Range, Anaktuvuk Pass		
7571		Parker				Gravina Point, Valdez		
7580		Weeden				Cook Inlet, Glenallen; Valdez re: routing and use of existing pipeline corridors		
7583		Marshall	CAGPL			Valdez, Port Gravina re: pipeline route		
55	7595-98	Aug. 15		Hughes	CARC	St. Elias Range; Shakwak Trench; Yukon Plateau; Mackenzie Mts; Selwyn Mts; Ogilvie Mts; Porcupine Plateau; Nahanni Range; Keele Range; Old Crow Range; British Mts; Eagle Plain; Old Crow Flats; Peel Plain; Richardson Mts; Anderson Plain, Volville Hills; Hoston Plain; Great Bear Plain; Kluane Range		

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55	7629	Aug.15	WH	Morlan	CARC	Old Crow Flats - archaeological sites
C-18	1816	Aug. 5	FGH	C. Barnaby	Citizen	Goose Island - oil spill damage caused by Canol-line tank
C-19	1835-36	Aug. 6		Berger G. Kochon	Citizen	The Ramparts - Berger visit; rabbits dead on Cat road
C-21	2140	Aug. 9	NW	C. Touraneau	Citizen	Calf Island
C-23	2311	Aug. 14	WH	R. McKaymie	Citizen	Eagle Plain
	2316			A. Fekete	Citizen	Mackenzie River estuary
	2318			A. Fekete	Citizen	Mackenzie Delta estuary
	2335			R. McCandless	Citizen	Eagle Plains field
	2352			C. Taylor	Citizen	Kluane National Park
61	8622	Sept.15	YK	Gibbs	Foothills	Pine Point; community service lateral
62	8811	Sept. 16		Mirosh	Foothills	Gibson Gap; narrowness of the right-of-way
	8892			Mirosh		Redknife Hills; active radio tower site for Foothills
	8907			Scrimmes	Foothills	Redknife Hill; active repeater station
	8942			Scrimmes		Alaska, Prudhoe Bay Oil field
64	9300	Sept.18		Spafford	Foothills	Naylor's Landing
	9347			Mirosh		Banks Island, Victoria Island
	9395			Claridge	Foothills	Ebbutt Hills
65	9462	Sept.19		Spafford		Naylor's Landing
	9463			Spafford	Foothills	Tununuk Point; Richards Island
	9572			Claridge	Foothills	Ebbutt Hills
	9601			Mirosh	Foothills	Axe Point; Dory Point; Poplar Landing
67	10014-16	Sept.23		Mirosh		Axe Point; Dory Landing; Poplar Landing
68	10127	Sept.24		Mirosh		Point Barrow
	10132			Mirosh		Cold Lake; Richards Island
70	10515	Sept.26		Owen	MVPI	Labiche river crossings
	10529			Owen		Fort Nelson; on the route of the Beaver River - Fort Nelson line
	10593			Lewis	MVPI	Norman Range; western slopes
72	10762	Oct.15		Lewis		Babbage Bight; Tuk peninsula
	10765			Lewis		Bering Strait; Point Barrow
	10767			Lewis		Liverpool Bay
	10772			Lewis		Kay Pt., measurement of precipitation levels
73	I0957	Oct.16		Morgenstern	CAGPL	Mackenzie River mile 250 to 660; slopes of Westspitzbergen
	10961			Morgenstern		North slope of Alaska - area of research
74	10974-75	Oct.17		Williams	CAGPL	800 odd miles between Richards Mountains and the 60th parallel re: snow road construction; Little Chicago; Richards Island
	10978-80			Williams		Thompson Manitoba; Arctic Archipelago; Ottawa re: peatlands
	11001			Williams		Alaska; installation of vertical support members
	11005			Williams	CAGPL	Big Delta; construction spreads
	11011			Williams		Camsell Bend; Dahadinni area
75	11026	Oct.20	YK	Parker	CARC	Alaska experience re: snow roads
	11030			Parker		Brooks Range, Alaska Range re: thin work pads
	11033			Parker		Arctic slope; Alberta re: winter construction area
	11051			Weeden	CARC	Kaktovik, Baxter Island, Prudhoe Bay re: air flights
	11057			Weeden		Kaktovik; involvement of the community in pipeline routing
	11062			Weeden		Marsh Creek anticline, Eastern Beaufort Sea, oil and gas deposits

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75	11064	Oct.20	YK	Berger		Marsh Fork area, Prudhoe Bay field			
	11069				Marsh Fqrk area				
	11077			Weeden	CARC	Naval Petroleum Reserve No. 4; Barrow Alaska			
	11084			Weeden		Brooks Range re: slow growth of natural vegetation			
	11106			Weeden		North slope of Brooks Range re: caribou range			
	11113-14			Parker	CARC	Kaktovik, frequency of D.C. 3 flights along the coast line; Fairbanks, Prudhoe Bay, Flaxman Island re: Polar Air routes			
				Weeden					
	11136			Parker	CARC	Valdez re: tanker port			
	76			11144	Oct.21		Weeden	CARC	Valdez; pipeline route location
				11163		Parker		Brooks Range re: gravel source	
11178		Parker		Valdez, Gravena; studies					
11181		Weeden		Fairbanks, Dawson Creek					
		Parker							
11183-86		Parker		Tidewater, Demarkation Point re: barge points; Brooks Range, Koyukak Valley, Tanana Valley re: water availability					
		Weeden							
11200-05		Parker		Tok-Northway area; Fairbanks, Circle City re: Steese Highway					
		Weeden							
11207		Parker		Valdez terminal					
		Parker							
11212-13		Parker		Village of Point Hope, Alaska; Fort Yukon					
11220		Parker		Fort Nelson, British Columbia highway system; re: winter road access					
		Parker							
11236		Parker		Stevens Village; Chugach region, Village of Nuksut					
11239-42		Parker		Fairbanks; States of Washington, Oregon, Oklahoma, Texas, California; Pacific Northwest re: origin of Alyeska workers, skilled and non-skilled; welders from Tulsa, skilled pipeline workers from Texas, Oklahoma					
		Parker							
		11245		Parker		CARC	Alyeska route, Anactuvik Pass, Dietrich, Brooks Range, Itkillik Drainage, Sagavanerktok Drainage; Atigun Canyon, Toolik		
	11249		Parker		Fort Nelson re: winter road				
	11247		Weeden	CARC	Brooks Range				
	11265		Weeden		Kaktovik				
	11279		Parker		Gulf of Alaska tidelands, off shore oil and gas exploration, development				
			Weeden						
	11281		Parker		Katchumak Bay; policy is to develop oil and gas where it is found; State of Alaska policy versus Federal policy				
	11288		Parker		Livengood, south of Valdez re: haul road; Strategic Air Command Base				
	11295		Parker		Railway routing in Alaska--Nennana, Tanana, Alatna, Kobuk, Koyukak, Brooks Range, Prudhoe Bay				
	11302		Hughes	CARC	Fort Vermillion, Alberta; sporadic permafrost				
	11304		Hughes		Dezadeash - Takhini Valley, area of glacial lake silt				
77	11350	Oct.22		Rutter	CARC	Martin Hills, Nahanni Range, Camsell Bend, Dehadinni area			
	11465-68		Roed	CARC	Tuktoyaktuk Peninsula; Winnipeg to Montreal - Northern Ontario Shield terrain; re: Edge of the shield route				
	11471-88		Roed		Edge of the shield route; Liverpool Bay, Wood Bay; Smoking Hills Upland, Clear Water Bay, Etacho Point, Leith Penninsula; fluted moraines of the Franklin Mountains; Smith Arm, Colville Hills; Horn Plateau, Rainbow Field transportation system;				
78	11491	Oct.23		Roed		North Sea, the Sante Fe operation			
	11493-94		Roed		Shallow Bay crossing; Tyrrhenian Sea pipe connecting coast of Calabria, Italy with the island of Sicily				

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78	11497-504	Oct. 23	YK	Roed	CARC	Y pipeline route; Cameron Island, Melville Island, Bathurst Island, M'Elvre Strait, Banks Island, Perry Peninsula, Paulatuk, Chesterfield Inlet, Wager Bay, Rankin Inlet, Whale Cove, Eskimo Point, Victoria Island
	11512-20			Roed		Winnipeg to Montreal pipeline route; distribution centre at Brandon; Calgary on Trans Canada Line: Wood Buffalo National Park; Emerson, Manitoba; Fort Chipewyan;
	11533			Roed		Trans Canada highway and the railway through Banff National Park
	11542			Roed		Tuk peninsula, Liverpool Bay area re: ice content soils, thick moraine deposits
	11545-48			Roed		North Sea re: Waterbody crossings
	11558-59			Roed		Colville Hills re: soil drainage
	11561			Roed		Horn Plateau
	11568			Roed		Banff National Park
	11588-93			Roed		Horn Mountains, Horn Plateau
	11637-38			Minning	CAGPL	British Mountains
	11672			Minning		Fairbanks re: ice logs
79	11687	Nov. 3		Minning		Buckland Hills
	11698			Minning		Oscar Creek Gap - borrow site
	11713			Dabbs	CAGPL	Caribou Hills - revegetation study
	11723			Dabbs		Peel Plateau, Caribou Hills, revegetation studies
	11735			Harlan		British Mountains
	11737			Harlan	CAGPL	Franklin Mountains - less chance of icing; Shingle Point; British Mountains
	11742			Harlan		Franklin Mountains
	11771			Harlan		Le Crate, Alberta
	11781			Harlan		Saddlerochet Mountains
80	11862	Nov. 4		Berger		Travaillant Lake area
	11903			Williams	CAGPL	Alternate borrow source at Shingle Point
81	11958-61	Nov. 5		Minning	CAGPL	Borrow site at Shingle Point
	11975			Harlan		Flanks of Franklin Mountains - significant ground water activity
	12018-21			Bell	NWT IB/MA	Old Baldy
	12042			Bayly	NWT IB/MA	Borrow source near Travaillant Lake
	12043			Minning	CAGPL	Little Chicago
	12067			Minning		Little Chicago, Ya-Ya esker, Richards Island, Caribou Mountains
	12091			Hemstock	CAGPL	Kittigazuit
	12121			McCart	CAGPL	Firth Delta
82	12174-75	Nov. 6		Dabbs	CAGPL	Brooks, Richardson Ranges,
	12184			Dabbs		Richardson Mountains, Eagle Plains
	12192			Williams	CAGPL	LaPierre House
83	12352	Nov. 7		Scott Hemstock	MVPI CAGPL	Old Baldy as borrow and recreation sites
	12359-60			Scott Minning	CAGPL	Granular materials survey stops short of Richards Island
84	12585	Nov. 8		Bayly	COPE/ITC	Komakuk Beach compressor station, water sources
	12587			McCart	CAGPL	Volume of lake at Komakuk Beach
85	12618	Nov. 12		Bayly Williams	CAGPL	Sewage disposal, Komakuk Beach
85A	12765-66			McCart		Alaska North Slope, water shortage; Franklin Bluffs and Lisburne limestone in Brooks Range, water sources
86	12808	Nov. 13		Williams		Borrow site, Franklin Mountains alternative to site P170
	12821			Drew	Foothills	Lateral line near Redknife Hills; terrain sensitivity, Bear-Slave Upland Physiographic Province, Canadian Shield

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86	12886	Nov.13		Reeves	Foothills	Fort Alexander, archaeological site
	12988			Bayly Lawrence	COPE/ITC Foothills	Komakuk Beach camp, sewage disposal
87	13092-93	Nov. 14		Berger		Klokut, discovery of ancient fleshing tool, bulldozing of site
	13099			Bayly		Significance of Old Baldy hill, Fort Good Hope
	13116			Lawrence		Komakuk Beach, sewage treatment
88	13251	Nov.17		Lawrence		Sewage discharge, Komakuk Beach
89	13406	Nov.18		Gunn	CAGPL	Bird migration studies, Nunaluk Spit, Yukon
	13415			Gunn		Sea duck disturbance studies Herschel Island
	13425			Gunn	CAGPL	Peregrine falcon, other raptors, nesting sites, Campbell Hills, Norman Range, McConnel Range
	13430			Gunn		Raptor nests, Canning Valley
	13458			Jakimchuk	CAGPL	Interior route near Old Crow Flats, travels through Canning River Valley; coastal route near Dall sheep, Mount Goodenough
	13494-95			Jakimchuk		Caribou overwintering, Richardson Mountains; migration, Brooks Range; wintering, Chandalar; aggregations, Barter Island to Camden Bay
90	13762	Nov.19		McCart	CAGPL	Phillips Bay, sensitivity of char population
91	13776	Nov.20		McCart		Tununuk Point, new crossing of Mackenzie River, cross delta route
	13822-24			Berger Hemstock	CAGPL	Alyeska environmental inspection
	13835			Anthony	CARC	Spring in Fish Creek near Komakuk Beach
	13865-92			Dau	CAGPL	Twin crossing, pipe size, mileage, gas flow, capital costs
	13934			McCart		Barter Island domestic fisheries, aid to study
	13946-47			McCart		Nunaluk Spit, Barter Island, benthos, plankton studies, fish migration
92	14000	Nov.21		McCart		Babbage Bight; important fish area
93	14105	Dec.1		Gunn		Campbell Hills area; peregrine falcon nest sites; pipeline route
	14107			Gunn		Norman Range, compressor station and peregrine falcon nest locations
	14114-15			Gunn		Studies; application to the Aleutian Islands and to Alaska; re: disturbance to Birds
	14150-52			Gunn	CAGPL	Komakuk Beach - supply depot; Point Barrow; Camden Bay; Simpson (one - wharf site)
	14156-57			Hemstock	CAGPL	Demarcation Bay, Ptarmigan Bay, Komakuk Beach
	14161-62					Prudhoe Bay, Brooks Range, Richardson Mountains - research area of Gunn, re: Coastal Route
	14172			Gunn		North Slope, Tuk Peninsula - region of snow geese habitat
	14187			Gunn		Churchill, Manitoba, evidence of Lapland Longspurs and snow buntings habitat change
	14190			Gunn		Campbell Hills; nesting sites
94	14204-08	Dec.2		Gunn		Old Crow Flats, Yukon Flats, Prudhoe Bay, Demarcation Bay
	14212			Bayly	COPE/ITC	Shallow Bay
	14220-21			Gunn		Campbell Hills - raptor nests; Malcolm Delta goose - borrow pits and facilities
	14244			Jakimchuk		Places in Alaska - caribou important food source
	14280-82			Berger Banfield	CAGPL	Calving on the coastal plain from Shingle Point to Prudhoe Bay; calving grounds - north slopes of the Brooks Range, British Mountains
	14298-300			Banfield		Taimyr Peninsula in Siberia
	14327			Jakimchuk		Richardson Mountains; - Dempster Highway route
	14330			Banfield		Dawson City, re: Dempster Highway point of origin
	14342			McCart	CAGPL	Marsh Fork - fish overwintering, spawning area
	14356			Banfield		Richardson Mountains ; caribou incursions

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95	14389	Dec. 3	YK	Bayly	COPE/ITC	Big Eddy
	14428			Berger		Fairbanks north (all weather road)
	14491-92			Banfield	CAGPL	Kittigazuit
	14494			Banfield		Elk Island National Park
	14496-97			Bayly	COPE/ITC	Garrison Diversion in North Dakota; Scotland
	14498-99			Berger		England and Scotland; Orkney Islands; North Sea
96	14510	Dec. 4		Berger		Tuktoyaktuk Harbour
	14539			Jakimchuk	CAGPL	Nunabak Island, Barter Island; Greenland
	14541-42			Jakimchuk		Herschel Island; North Coastal Slope; Brooks Range
	14565			Jakimchuk		Alaska - Chandler River Drainage Wintering area for caribou
	14567-70			Banfield		Norway - road access to a caribou range; Arctic Village, Alaska - hunting pressure; Eagle Plains area - seismic activities, disturbance
	14586			Jakimchuk		Richardson Mts - migration route; central Yukon - migration route
	14594			Jakimchuk		Canning River Valley, Alaska
	14618-19			Marshall	CAGPL	Marsh Fork; Anchorage Skagway Valdez ports
	14623-24			Jakimchuk		Dawson City
	14627			Jakimchuk		Access between Dawson and Old Crow; Richardson Mts
	14634					Richardson Mts
	14643			Jakimchuk		Parkin camp airstrip
	14670			Jakimchuk		Herschel Island, Richardson Mts area of caribou wintering
	14673			Jakimchuk		Northern Richardson - wintering area
	14681-82			Banfield	CAGPL	White Mountains, Fairbanks
97	14711-13	Dec. 5		Banfield		40 - mile caribou herd, movements, Circle, Carcross; caribou in St. Elias mountains
	14722-26			Jakimchuk	CAGPL	Moose in Oscar Creek Valley
	14729-31			Jakimchuk		Swan Hills, Alberta, moose reactions to oil exploration
	14797			Templeton	EPB	Camsell Bend, restrictions on overflights and routing, Mackenzie River islands, recommendations
	14840-41			Gunn	CAGPL	Snow geese movements, Sacramento Valley, California, Mexico, Oregon, Peace-Athabasca Delta, Anderson Delta, Banks Island
	14853-55			Scott	MVPI	California preserving snow geese habitat
98	14857-60	Dec. 8		Scott		Importance to birds, Babbage River Delta, Phillips Bay, Demaraction Bay, Moose Channel Flats, Beaufort Lagoon, Ellis Island, Oliver Island
	14864			Scott		James Bay, report, native people hunting birds; Moose Channel Flats, Ellis Island, Oliver Island, as critical bird areas
	14876			Gunn		DEW line station populations, Cambridge Bay, Barter Island, Shingle Point, Stokes Point, Kaktovik
99	14908	Dec. 9		Gunn		Shallow Bay, bottom sampling
	15023-24			Jakimchuk	CAGPL	Overwintering caribou, Herschel Island, Shingle Point Phillips Bay
	15053-54			Scott	MVPI	Ebbutt Hills, Shallow Bay Delta, impact on wilderness values
	15063			Banfield	CAGPL	Forest fires, N.E. British Columbia, James Bay, impact on wilderness values of areas
	15077-79			Banfield		Possible park, Barrow, Alaska; terrain similar to North Slope west to Bristol Bay
15090-95	Scott Hemstock	CAGPL	Archaeological surveys, Prudhoe Bay to Caroline			

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99	15126	Dec. 9	YK	Finney	Foothills	Route conflicts with raptor nests, near Norman Range and in Bear Rock area
	15152			Bayly	COPE/ITC	Foothills will not cross Shallow Bay
	15166-68			Whitney	Foothills	McKinley Park, Alaska, Studies of impact of road
	15176			Finney		Peregrine falcon nest, Norman Range
	15182			Whitney		Wood Buffalo National Park, studies
100	15196-200	Dec. 10		Finney		Axe Point, waterfowl survey; Shallow Bay, CAGPL dredging
	15208			Whitney		Between Redknife Hills and Yellowknife, woodland caribou studies
	15261			Finney		Richards Island, springtime bird hunting
	15319			Finney		Churchill, Manitoba, breeding area for Hudsonian Godwit
	15363-65			Berger Whitney		Reindeer from Alaska or Siberia; reindeer herding, Barrow, Alaska; woodland caribou in Redknife Hills
101	15411	Dec. 11		Peterson	CARC	Personal knowledge of routes excepting Ebbutt Hills, east of Franklins route
	15426			Peterson		Campbell Lake recommended by E-S P as an exclusion area re: Guideline #4
	15431-34			Peterson		Proposed avoidance areas, Guideline #4: Campbell/Dolomite Lakes proposed IBP site; Bear Rock, Mt. Goodenough, the Ramparts, pingos of Tuktoyaktuk Peninsula, Fort Alexander; eastern fringe Mackenzie Mts, Firth River fringe, British Mts, Shoalwater Bay, Philips Bay, Ptarmigan Bay, Herschel Island; Pelly Island, Liverpool Bay, McKinley Bay; Horseshoe Bend; west Old Crow Range; Shoalwater Bay
	15444-47			Peterson		Proposed IBP sites, Caribou Hills, Old Crow Basin, South Mackenzie Delta, Ebbutt Hills, Garry and Pelly Islands, Toker Point, Herschel Island, Deep Bay Wood Bison Sanctuary
	15448			Zoltai	CARC	Terrain, vegetation, permafrost studies, Sans Sault Rapids
	15466-68			Zoltai		Ebbutt Hills, two pipeline alignments compared; terrain crossed
	15474			Zoltai		Western flank, Franklin Mountains, potentially hazardous area for construction
	15500-01			Marshall Zoltai	CAGPL	Ebbutt Hills, 90% frozen terrain; susceptibility to frost heave
	15525			Scott Zoltai	MVPI	Area on western flank, Franklin Mountains, area to be avoided or treated with special care
	15539-40			Zoltai		Ebbutt Hills, Foothillsline follows flanks, possible water runoff interference
102	15560-68	Dec. 12		Peterson	CARC	Preferable not to run pipeline through proposed IBP site, Old Crow Flats
	15585			Zoltai	CARC	Tanana Valley, Alaska, pipeline construction viewed
	15592-608			Peterson		Application for Old Crow Flats IBP site; Caribou Hills IBP site, Harrison and Williams Islands near site, interaction with pipeline; Ebbutt Hills site, CAGPL route crosses
	15619-23			Novakowski	CARC	Banks Island, fox trapping; beavers Mackenzie Mts; muskrats, Peace-Athabasca Delta, Slave River Delta
	15634-45			Novakowski		Peregrine falcon breeding, Campbell Hills, Banks Island, Ungava Bay, Coronation Gulf, Melville Sound; Eskimo curlew sightings, Anderson River Delta, Tuktoyaktuk Peninsula; whooping crane, nesting, Wood Buffalo National Park; wintering, New Mexico, stopover, Colorado; wood bison, Elk Island National Park, historic range to Mackenzie Mts, suitable habitat in Horn Plateau
	15645			Novakowski		Area from Victoria Island to Alaska border of interest re: polar bears
	15651			Novakowski		Polar bear denning areas, Banks and Victoria Islands
	15666-69			Novakowski		Impact on foxes, Tuk Peninsula, Richards Island, Banks Island

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	15705-07			Novakowski		Caribou Hills IBP site
	15708-10			Novakowski		Peregrine falcon populations in other areas of world
103	15735	Dec. 15		Stein	CARC	Richardson Mountains, Mackenzie Mountains, Franklin Mountains, Camsell Bend, Norman Wells, re: construction routing
	15754			Walker	CARC	Canning River re: conflict with Interior Route
	15766-67			Steigenberger	CARC	Shingle Point, Sabine Point, Herschel Island, King Point re: fresh water sites for overwintering species
104	15846	Dec. 16		Bayly Stein	COPE/ITC CARC	Mackenzie studies - determination of fish life histories
	15879-80			Stein		Tuk peninsula, Shingle Point re: fish utilization of coastal lagoons
	15886-87			Walker	CARC	Asiac re: grayling, white fish food selectivity
	15895			Walker		Kenai Peninsular re: grayling stocking techniques
	15896-99			Stein		Shallow Bay re: impact of proposed crossing construction on fish migration
	15903-04			Bayly Stein		Shallow Bay re: whale calving, importance as a fish migration route
	15907-12			Bayly Steigenberger Stein		Tuk peninsula, Richards Island study information re: utilization in assessment of proposed pipeline routes: Komakuk Point, Shingle Point, Herschel Island re: domestic fishing
105	16034	Dec. 17		Steigenberger		Stokes Point Lagoon
	16054			Stein		Malloch Bay
	16132-33			Lent	CARC	Alaska; Yukon Territory
	16135-36			Lent		Seward Peninsula - Lower Yukon
	16139-52			Lent		Barrow, Alaska; Prudhoe Bay; Kuparuk River; Barter Island; Sagavanirktok River; Brooks Range; Cape Beaufort; Clarence River; Canning River; Katakaturak River; Penny River
106	16168	Dec. 18		Lent		Prudhoe Bay re: construction of gravel causeway
	16172-73			Lent		Prudhoe Bay re: habitat degradation; Brooks Range re: Atigun Canyon Camp; Franklin Bluff Camp
	16176			Lent	CARC	Norilsk, Siberia re: elevated gas line, caribou crossing, facilities
	16178-79			Lent		Fairbanks, Alaska re: shooting moose or caribou on university campus
	16181			Lent		Newfoundland, Scandinavia, U.S.S.R., Alaska, United States
	16195-96			Calef	CARC	Yukon Territory, Alaska, Whitehorse, Carcross, Skagway, Fort Yukon, Ogilvie Mountains, Dawson, re: caribou population studies
	16197-201			Calef		Manitoba re: migration of Kaminuriak caribou; Scandinavia re: population of reindeer herds; University of Alaska re: Klein study, abandonment of ranges by reindeer in Norway; Labrador re: Churchill Falls Dam, effect on caribou
	16206-07			Calef		Alaska, Richardson Mountains, Central Yukon, Brooks Range, Romansov Mountains, Barn Mountains, Aklavik, Fort McPherson, Inuvik, Kaktovik
	16213			Calef		Old Crow Flats re: migration, Porcupine herd
	16231			Calef		Coppermine re: effect of snowfall on large herd of caribou
	16237			Calef		Ogilvie Mountains, Arctic Village re: caribou hunted from snowmobile
	16242-46			Lent		Cape Thompson, Nunivak Island, East Greenland, Herschel Island re: muskoxen distribution
	16252			Lent		Kaktovik re: route of travel for people
	16263			Lent		Barrow re: legal sale of caribou meat
	16267			Lent		Seward Peninsula re: Western Arctic herd
107	16290-91	Jan. 12		McT-Cowan	EPB	Mt. Goodenough, Sheep Mt.
	16297-98			McT-Cowan		Marsh Fort area of the Canning River; Eagle Plains area of the Yukon
	16312			Templeton	EPB	Ebbutt Hills

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107	16314	Jan. 12	YK	Templeton	EPB	Shallow Bay
108	16438-39	Jan. 13		McT-Cowan	EPB	Tuktoyaktuk Peninsula, Herschel Island, Prudhoe Bay, Babbage Bight; Marsh Fork of the Canning; Eagle Plains
	16459			Gourdeau	EPB	Fort Chimo, Quebec
109	16600	Jan. 14		Thomson	EPB	Shallow Bay
	16616			McT-Cowan		Great Britain - protection of rare and endangered bird species
	16625			McT-Cowan		British Columbia, Alaska - hunting regulations; wildlife refuges
	16633-34			Adam	EPB	Ebbutt Hills; route location
	16693			Wilimovsky	EPB	Research in the Soviet Union, siltation below dams
	16716			McT-Cowan		Fraser River - competition between salmon and dams
110	16757-58	Jan. 15		Bergerud	CARC	Camden Bay - post calving aggregation
	16762			Bergerud		Armstrong Ontario, relic caribou herd
	16764			Bergerud		Knob Hill, Schefferville; Churchill - Pas
	16774			Lent	CARC	Kenai Peninsula, Alaska - high concentration of moose
	16837			Lent		Seward Peninsula, the Yukon - Kuskokwin Delta, area of caribou abundance
111	16911-15	Jan. 16		Calef	CARC	Porcupine herd calving grounds, Herschel Island, Camden Bay, Mackenzie Bay
	16922-24			Calef		Wintering caribou, east side, Richardson Mountains, Mount Goodenough, northern Ogilvie Mountains
	16940			Lent		Kotzebue, Alaska, reindeer mistaken for caribou and shot
	16950-52			Lent		Area biologists, one each in Nome, Barrow; increased Dall Sheep hunting, Brooks Range
C-24	2410	Aug. 23	TL	Nahanni	NWT IB/MA	Kakisa
	2438		NB	H. Deneron	Citizen	Deadman's Valley; Southern B.C.
	2444-45			F. Vitel	Citizen	Deadman's Valley
	2458-61			Nahanni		Swan Point, Netla, Rabbit Kettle, Virginia Falls, Two Gaps, Deadman Valley, Twisted Mountain, Lower Post, B.C.
C-25	2566	Sept. 8	FS	Ivans	Citizen	Fort McMurray, Hawaii re: impact of transient population
C-26	2640	Sept. 9		Lafferty	Citizen	Chilliwach, Fort St. John, Hope re: natural gas pipeline
	2654			Villeneuve	Citizen	Rabbit Kettle
	2662			P. Nahanni	Citizen	Horn Mountain, Horn Plateau
	2701			Lamothe	Citizen	Horn Plateau re: traditional working on land
C-27	2762-63	Sept. 10		Fizer	Citizen	Swan Hills, Fort Nelson, Fort St. John re: pipeline towns
	2766			Hammond	Citizen	California re: aesthetics of paving
	2770			Berger		Kingston, Ontario re: Trans Canada Pipelines construction
	2774			Grnon	Citizen	Hawaii re: comparison of people to Eskimo; Germany re: relaxed people
C-28	2823	Sept. 10	Wr	P. Nahanni		Mackenzie Mountains
C-30	2907	Oct. 6	PP	Mirosh	Foothills	Sachs Harbour, Bathurst Inlet, Fort Chipewyan re: natives in training programs
	2927			Mirosh		Saskatchewan, Alberta re: looping methods practiced
	2929-30			Berger		Prudhoe Bay, Valdez re: Alaska Oil Pipeline project
C-31	3015	Oct. 7	FR	King	Citizen	McMurray, Waterways, oil pipeline failure, environmental impact
C-34	3260	Oct. 15	YK	Duesterhus	Citizen	Mackenzie Mountains storm in "Hydrologic Aspects of Northern Pipeline Development, 1973"
	3296			Berger		Banks Island and Victoria Island re: potential gas reserves; Hudson's Bay coast re: transportation of gas from high Arctic
C-35	3392-93	Oct. 22	LI	Littledale	Foothills	Pointed Mountain, Franklin Mountains, British Columbia, Fort Nelson re: Westcost Transmission pipeline construction, operation experience

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C-35	3412	Oct.22	LI	Berger		Alaska - measure to control outside workers from entering communities
	3415			Irwin	Citizen	Calgary - native training programs
C-36	3447-48	Jan. 28	In.	Alonik	Citizen	Inuvik District, Inuvik Delta region re: hunter, trapper numbers, camp sites
	3456A			Raddi	Citizen	Komakuk Bay, Cape Perry, Banks Island, Cape Bathurst re: trapping in the past
	3491			Adam	Citizen	Hershel Island Eskimo - fur trade with Aklavik Eskimo
	3506	Jan. 29		Workman	CAGPL	Calgary, Edmonton, Alaska - pipeline route
	3512-13			Mainland	GPC-D	Niglintgak, Taglu - plant sites, flow capacity, well drilling patterns
	3525			Sineok	Citizen	Chinatown, Vancouver, Burrard, Lebrer, St. Paul, St. Boniface, St. Charles, Quebec, Maritime Provinces re: Canada as an ethnic national heritage
	3550-52			Ellwood	Foothills	Richardson Island, Taglu, gravel removal sites
	3554-55			Binder	Citizen	Coppermine, Swimming Point re: transport of work force, native worker adaptation to wage employment
C-37	3567	Feb.10	In	Workman	CAGPL	Richards Island, Prudhoe Bay, Shallow Bay - CAGPL proposed pipeline route
C-38	3633-34	Feb.12		Hill	Citizen	Norilsk, Tyumen, Yakutsk - pipeline construction over permafrost
C-39	3757-58	Feb.18		Usher	COPE/ITC	Map of land use for Tuk, Paulatuk and Banks Island
	3760			V. Allen	Citizen	Leddy Harbour, Paulatuk, Cape Parry, Kendall Island, Shallow Bay, Herschel Island
	3766-68			C. Allen		Kendall Island, Kotaloa, Fish Hole
	3769			Alonik	Citizen	Yukon Territory, Babbage, Crow Flats
	3778			Thrasher	Citizen	Fish Hole
	3779			C. Allen		Inukkug, Frobisher Bay
	3793			Alonik		Herschel Island, King Point
	3797-98			V. Allen		Richards Island, Shallow Bay
112	17028-34	Jan.20		Horsfield Berger	GPC-D	Oil, gas exploration, Eagle Plains, Anderson Plains, Point Separation, Nicholson Point, Prudhoe Bay, Atkinson Point; oil or gas discoveries, names of wells; Taglu, Parsons, Niglintgak fields proposed for development; proved, probable reserves in Mackenzie Basin; oil, gas discoveries on Richards Island and Tuk Peninsula
	17039-51			Bliss	GPC-D	Glacial movements, Tuktoyaktuk Peninsula, Richardson Mountains; terrain, Point Separation in Peel Plain; terrain, Point Separation in Peel Plain; terrain, vegetation, Richards Island, Caribou Hills; reindeer herding, Richards Island
	17053			Bliss	GPC-D	Tuk Peninsula, reindeer range
	17058-64			Bliss		Tuk Peninsula, Duck activities; Banks Island, Richards Island, snow geese; Kugmallit Bay; Shallow Bay, Cunningham Bay, beluga whales
	17067-70			Bliss		Caribou Hills, importance of area for IBP site, also Eskimo Fingers area; Banks Island, production of foxes, musk-ox, Peary caribou
	17073-86			Bliss		Shallow Bay, productivity of aquatic systems compared to Arctic island lakes; whale use, Liverpool, Shallow Bays; whales at Point Separation, Kugmallit Bay; regeneration of water by Mackenzie in Delta; whale wintering, through Bering Strait into Pacific; increased human activity, shallow, Kugmallit, Liverpool Bays; trees, Richards Island; black spruce, Tununuk Point, sedge lands, Ellis and Langley Islands, importance to waterfowl; trees, Point Separation, good size for pilings
	17094-96			Bliss		Taglu, Yaya areas, effects on landscape not anticipated; Caribou Hills, localized, specialized plant groups; exclusion of development from Eskimo Fingers area, Caribou Hills; vegetation
	17103					Reindeer Depot 20 miles south of tree line
	17110-12			Bliss		Farewell camp would be outside Kendall Island Bird Sanctuary if boundaries redrawn; exclusion of all development activity from Caribou Hills IBP site

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112	17120	Jan. 20	In	Bliss	GPC-D	Sedge vegetation use by geese, Ellice, Tangley Islands
	17126			Berger		Visited Whitefish Station, Inuit whaling site
114	17280-83	Jan. 22		Mainland	GPC-D-I	Taglu gas field on Richards Island
	17295			Mainland		Kuluarpak Channel, Mackenzie River, Taglu gas plant water source; ocean barges will ship large items around Point Barrow into Kugmallit Bay
	17314			Mainland		Well drilling techniques in other areas of Richards Island, Tuk peninsula
	17336-56			Mainland		Ya Ya eska, borrow material; Big Horn Point borrow site; Mount Sedgewick, rip rap quarrying; Kings Point, concrete block making
	17368			Mainland		Tankers will not be brought through Bering Straits
	17399-10			Mainland		Big Horn Point use as borrow source; caribou Hills borrow site
	17423-28	Jan. 22		Faulkner	GPC-D-S	Niglintgak gas field; unloading dock in Kumak channel of Mackenzie; Farewell staging area to be used; Kumak channel separates most southerly well from rest; little known of Kumak channel crossing site
	17440			Faulkner		Niglintgak gas field, Farewell staging area airstrip will be used, no other will be built
115	17451	Jan. 23		Faulkner		Bering Strait, barging materials via Strait versus Mackenzie to Niglintgak gas field
	17459			Faulkner		Kumak channel of Mackenzie, possible flooding of Niglintgak gas field, precautions
	17468-71			Faulkner		Kumak channel, crossing difficulties of gathering line to gas plant
	17477-78			Bayly Faulkner	COPE/ITC GPC-D-S	Richards Island, possible extension of Shell exploration; Swan Hills as example of field with widely spaced wells and feeder lines
	17487-92			Faulkner		Swan Hills gas field, Niglintgak field will be better planned; no fill deposits near Niglintgak like Big Horn Point; personnel brought from Farewell camp to Niglintgak via helicopter
	17518-22			Faulkner		Kumak Channel near Niglintgak gas field, problems crossing with gathering line
	17538			Stamberg	GPC-D-G	Swimming Point base camp; Hans Bay, dock to be built, Parsons Lake gas field
	17544			Stamberg		Hans Bay as possible water source for Parsons Lake gas field
	17581-84			Stamberg		Alternative staging areas for Parsons Lake gas field at Swimming Point, Lucas Point, Hans Bay; Prudhoe Bay, modular construction system, moving modules over special road
116	17607-13	Jan. 24		Stamberg		Liverpool Bay, Point Barrow, transportation of modules to Parsons Lake, possibility of dredging or scaling; Tuktoyaktuk Harbour, dredging responsibility; environmental effects of dredging Liverpool Bay; Swimming Point, alternate site to Parsons Lake
	17619-24			Stamberg Bayly Berger		Caribou Hills gravel sources, drilling permit leases; impact on whale populations in Liverpool Bay and Shallow Bay
	17646			Rempel	GPC-D-I	Ellice-Langley, Richards Island, environmental studies by F.F. Slaney and Company, consultant
	17654			Rempel		Richards Island potential for over-fishing; possibility of archaeologist sites at Taglu and Niglintgak
	17656			Rempel	GPC-D-I	Bar C, Camp Farewell, Swimming Point, Tuktoyaktuk refuel cash points
	17661-72			Webb	GPC-D	Whitefish Station, Kendall Island, Kugmallit Bay, Shallow Bay, Garry Island, Mackenzie Bay, Tent Island, Reindeer Channel, Immerk, Liverpool Bay, Pelly Island, re whales
	17679			Wopnford	GPC-D-S	Kendall Island Bird Sanctuary
	17701			Appleton	GPC-D-G	Fuel transportation, Tuk Peninsula, Liverpool Bay, Husky Lakes
	17706-07			Appleton		Studies of whales and fish in Liverpool Bay area, dredging

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116	17721	Jan. 24	IN	Webb	GPC-D	Grizzlies in Richards Island area
	17726-30			Webb		Whales in Shallow Bay, Liverpool Bay; harvest of whales for Shallow Bay, West Mackenzie Bay, Kendall Island, Kugmallit Bay; whales in Beaufort Sea, Amundsen Gulf
117	17764	Jan. 26		Webb		Kendall Island Bird Sanctuary, disturbance from industrial activity
	17767			Appleton	GPC-D-G	Swimming Point, snowroad to Parsons Lake
	17783			Rempel	GPC-D-I	Kendall Island Bird Sanctuary, area of prohibited flying
	17790			Gouge	MVPI	Kendall Island, snow goose nesting colony, disturbance by gas plant
	17792			Webb		Banks Island, nesting of snow geese
	17794-95			Gouge		Kendall Island Bird Sanctuary, Garry Island, impact of proliferation of processing plants
	17809-10			Rempel		Gravel in Richards Island, Caribou Hills
118	17923	Jan. 27		Tod	GPC-D-I	Unsuitability of Tuk Harbour as deep water harbour; Babbage Bay, deep water harbour
	18003-04			Bayly Motyka	COPE/ITC GPC-D-G	Possible dredging of Liverpool Bay, scaling of Eskimo Fingers
	18009			Bayly Motyka		Swimming Point depot, transporting men and materials
	18015			Bayly Horsfield	GPC-D-I	Seismic program on Ellice Island and Richards Island
	18026			Horsfield		Discovery of gas and oil at Adgo
	18030			Horsfield		Drilling on islands north of Kugmallit Bay
	18036			Bayly Czaja	GPC-D-S	Eagle Plains, indication of hydrocarbon
	18060			Bayly Horsfield		Immerk Island, Issigak Island, islands built in shallow water
	18083-84			Horsfield		Tuk Peninsula, Herschel Island, depths to build artificial islands; Campbell Island, permit to take riprap
	18090-91			Gouge Horsfield	MVPI	Dome wells, relation to East Mackenzie Bay, Kugmallit Bay, Tuk Peninsula; proposed island, Kugmallit Bay, north of Hendrickson Island; structures, north of Shallow Bay, Tent Island
120	18274	Jan. 29		Pimlott	COPE	Caribou and wolves on Baffin Island
	18283			Pimlott		Sverdrup Basin, drilling in moving ice
	18299			Pimlott		King Christian Island, drilling of relief well, land operation
121	18373-74	Feb. 10		Percy	COPE/ITC	Santa Barbara - impact of oil spill on marine organisms (general)
	18387			Percy	COPE/ITC	Woods Hole oil spill - lobster chemical cue for food
	18392-93			Grainger	COPE/ITC	Tuk Peninsula - extension of Mackenzie River silt plume
	18395-96			Grainger		Baffin Island - quantity of zooplankton animals; Tuk Peninsula - quantity of heterotrophic bacteria
	18408-09			Percy		Santa Barbara - oil interaction with sediment plumes
	18428			Stein	COPE/ITC	Shingle Point - fish overwintering sites
	18434			Stein		Richards, Pullen, Hendrickson, Garry, Kendall Islands - fish populations - sensitivity to pollutant contamination
	18438-39			Barry	COPE/ITC	Northland South America, Mexico, California - source of birds nesting in Beaufort Sea, Arctic Islands; Great Plains, Mackenzie Valley, Tuktoyaktuk Peninsula, Alaska, Yukon, N.W.T. - migration routes into Beaufort Sea, Arctic Islands
	18455			Barry		Kendall, Banks Island importance as nesting ground, fall staging area sites

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121	18441-50	Feb.10	IN	Barry	COPE/ITC	Tuk Peninsula - importance re bird migration routes; Banks Island - snow geese nesting grounds; Komakuk Beach - bird migration radar studies; Cape Dalhousie, - migrant bird use of ice leads, concentration of eider ducks; Cape Parry-migrant bird use of ice leads, site of murre colony; Kendall Island - snow geese colony, dispersal; Bathurst Peninsula, Kittigazuit - snow geese migration, staging area; Alaska - snow geese feed grounds, eider migration routes; Arctic Islands - eider nesting grounds; Prince Patrick Island, Holman Island, Sachs Harbour, Point Barrow in Alaska - starvation of eider ducks due to failure of leads to open; Saunatuk - eider use of leads; Johnson Point - eider migration; Summerset Island - murre colonies
	1845-61			Barry	COPE/ITC	Moose Channel Flats, Ellice Island, Shingle Point, Tununik - location of compressor stations, Dew Line sites on Prudhoe Bay supply line; Richards Island - control area for Taglu oil well environmental study
	18463-65			Sergeant	COPE/ITC	Cape Smoking Hills, Baillie Islands - slide of whalebone whale; Tuk Peninsula - dead whales found on shore; Point Barrow - whale hunting ground, Point Hope - North Alaska - marine culture; Greenland Eastern Arctic, Victoria Island - Thule culture - hunting of caribou, housing; Spitzbergen - Dutch hunting of whale for oil; Eastern Arctic Archipelago - whalebone whale population; New England, San Francisco, Hawaii, Herschel Island - American whaling practices; Banks, Victoria Island - penetration of whales into Beaufort Sea
	18473-76			Sergeant		Kendall Island - white whale concentration related to water temperature; Eastern Arctic, Whale Cove; consumption of muktuk; Kendall Island, Tent Island - whale hunting by canoe
	18478			Sergeant		Shingle Point, Garry Island, Toker Point - zonation of delta re white whale population concentrations
122	18490-91	Feb.11		Sergeant		Santa Barbara, California oil spill - impact on whales
	18497-99			Smith	COPE/ITC	Alaskan coastal regions, Banks Island - movements of seals in offshore ice; Victoria Island - recordings of ringed seal underwater sounds; Herschel Island - capture, recapture techniques; Point Lay, Alaska, Barter Island - aerial census of ringed seals
	18502-05			Smith	COPE/ITC	Herschel, Banks, Norway Islands - population distribution of bearded seals; Cape Parry seal field lab used for oil impact studies; Browns Harbour - seal capture site for blood studies
	18509-13			Smith		Baffin, Broughton Islands - seal productivity; Herschel Island, Holman Island, Point Barrow Cape Parry - tagging studies on seal movements
	18524-25			Stirling	COPE/ITC	Banks Island, Point Barrow, Baillie Island - polar bear distribution; Cape Parry - slide - ringed seal
	18530-33			Stirling		Denmark, Norway, United States, Soviet Union - agreement on conservation of polar bears; Arctic Islands - polar bear distribution (general)
	18535-39			Stirling		Baillie, Banks, Herschel Islands, Barrow - movements of polar bear populations
	18542-50			Stirling		Baillie Island - impact of heavy ice conditions on polar bear hunting patterns; Banks Island - importance as a polar bear habitat re hunting, maternal denning; seismic testing recommendations; Victoria Island - polar bear maternal denning
	18553			Stein	COPE/ITC	Horshoe Bend - broad whitefish, humpback whitefish spawning site
	18556			Stein		Caribou Hills, Richardson Mountains - spawning potential of Holmes Creek and tributaries

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122	18564-67	Feb.11	IN	Barry	COPE/ITC	Point Barrow, Cape Dalhousie, Cape Parry, Victoria, Banks, Kendall Islands - susceptibility of colonial nesting birds to oil spills
	18571-77			Barry		Massachusetts - Buzzard Bay oil spill studies; Toker Point, Warren Point Nunak Spit, Tuktoyaktuk Peninsula - impact of oil spill on birds; Pelly, Garry, Fort Nisholson Islands, Shingle Point - gravel removal
	18581-92			Barry	COPE/ITC	Tent Island - swan nesting grounds; Shingle Point, Tununuk - compressor station locations in Delta; Kendall, Garry, Ellice, Langley, Pelly Islands - changing boundaries of Kendall Island Bird Sanctuary; Banks, Barter Islands, Bathurst Peninsula - bird populations using Delta staging sites - impact of oil spill; Atkinson, Toker Points, Baillie Island, - size of storm waves; Tent Island - 1970 flooding
	18594			Barry		Edmonton- recent pipeline failures
	18598			Barry		Ellice Island - bird reaction to aircraft activity
	18607			Grainger	COPE/ITC	Tuktoyaktuk Peninsula - studies - nutrient content in Beaufort Sea, coastal areas
	18612-13			Sergeant	COPE/ITC	Holman Island - whale feeding habits
	18616			Sergeant		Tent, Kendall Islands, Shingle Point - whale catch sites, hunting restrictions
	18623-24			Stirling	COPE/ITC	Norway, Denmark, Greenland, U.S.S.R., United States international agreement on polar bear management
	18637-38			Evans Stein Percy	CARC COPE/ITC COPE/ITC	Arctic Islands - types of oils used in impact studies
	18643-44			Stein		Horshoe Bend - whitefish spawning site; Richardson Mountains, Caribou Hills - graylings sites
	18648-49			Percy		California - "Tampic Marie" oil spill, ecosystem recovery period
	18668			Percy		St. Andrews, New Brunswick - studies on concentration of oil compounds passed up Arctic food chains
	18690			Goudge Sergeant	MVPI COPE/ITC	Yukon, Alaskan North Slopes - Gunn report recommendation - timing of construction in Delta
	18696			Stein	COPE/ITC	Shingle Point - impact of cross-Delta route construction on fish
	18702-05			Stein		Kittigazuit - Tuktoyaktuk peninsula, re critical coastal fish habitats; Baillie - seals as a source of income
	18711-26			Smith	COPE/ITC	Cape Parry, Point Barrel, Prince Patrick, Banks Island - seal movements in Beaufort Sea, Amundsen Gulf; Holman Island - mercury levels in seals; Pelly Island - extension of Kendall Island Bird Sanctuary boundaries; Richards Island, Swimming Point, Tununuk - alternate compressor station locations; Oaks Point - Barry route proposal
124	18874	Feb.13		Shearer	COPE/ITC	Herschel Island, direction of long shore current, sediment movement in southern Beaufort Sea
	18877-86			Shearer		Tuktoyaktuk Peninsula - permafrost conditions nearby subsea pingos; Tuktoyaktuk - multi-year pressure ridge; Ellesmere Island - ice islands
	18902-03			Lewis	COPE/ITC	Tuktoyaktuk - storm surges; Kay Point spit
	18905-09			Lewis		Tuktoyaktuk Peninsula - Shingle, Kay - coastal cliff composition; Babbage Bight - potential as a deep water port; Kay Spit - coastal retreat; Topkak, Warren, Atkinson Points, Tuktoyaktuk Peninsula, Herschel, Pelly, Hooper, Garry Islands - coastal spits - inundation, size composition
	18912-13			Lewis		Mississippi Delta - sediment consolidation
	18916-18			Lewis		Kay Point, Babbage Bight, Herschel Island - coastal retreat

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124	18936-54	Feb.13	IN	Milne	COPE/ITC	Herschel Island, Atkinson Point, Tuktoyaktuk Peninsula - limit of summer pack ice 1974; Richards Island, Tuktoyaktuk Peninsula, Amundsen Gulf - extension of Mackenzie River plume; Tuktoyaktuk Peninsula, Pelly Island - location of Canmar drilling sites in Beaufort Sea; Herschel Island to Cape Bathurst - storm surges
	18950-54			Milne		Sachs Harbour, Banks, Barter Islands - distribution of oil from Canmar site #1 blowout Banks Island - site #3 blowout
	18963			Milne		Sverdrup Basin - drilling in land fast ice
	18970-84			Milne		Tuktoyaktuk Peninsula, Richards Island - coastal oil deposition from Canmar oil blowout - impact on bird nesting habitats, staging areas, caribou, reindeer, recovery period for seal populations after high oil-related kill; Herschel, Banks Islands - seal utilization of active shear leads; Baillie Islands - polar bear sightings
	18997			Milne		Arctic Islands - provisions made for relief well drilling
	19002			Lewis	COPE/ITC	Babbage Bight - feasibility as a harbour, as concrete aggregate plant site
125	19059	Feb.14		Lewis		Shingle, King, Kay Points, Babbage Delta - storm surge Jan.6/74
	19098			Pettigrew	COPE/ITC	Whitefish station, Kittigazuit, Shingle Point, Kamakuk Beach - fishing sites
126	19144	Feb.16		Pettigrew		Strome, Killam oil spill
	19296-97			Snow	COPE/ITC	Kendall, Gary Islands - cumulative impact of pipeline development on fish resource
130	19737-38	Mar.16	YK	Marshall	CAGPL	Tununuk junction, new location for compressor station CD-08; Axe Point, new location for staging area
	19741-62			Engineering Panel	CAGPL	New prime route same as old west of Shingle Point; point north of Tununuk Point easterly junction of cross-Delta route; relocation to Tununuk junction, compressor station CD-08; use of DEW line sites at Komakuk, Shingle Point, Tununuk Point; Anderson Plain as Delta physiographic division; terrain in Caribou Hills, Campbell Lake Hills, under Shallow Bay; water flow, Point Separation; sediment, Shallow Bay
	19767-69			Minning Williams	CAGPL CAGPL	Borrow sources along cross-Delta route, Yaya esker, Kame Field, sources near Tununuk Junction, Swimming Point; proposed facilities at Axe Point; relocation of compressor CD-08 to Tununuk Junction, closer to Yaya esker; acreage, water, borrow requirements, Axe Point; effect of Axe Point on barge requirements; maintenance staging area for Delta at Tununuk Junction or Point
	19790			Williams		Excavation study in Shallow Bay
	19798-802			Williams		River crossings, Tununuk Point, Langley Channel, West Channel, Shallow Bay, Middle Channel
	19818-31			Williams		Dredging Shallow Bay, equipment, water depth; water crossings at Tununuk Point, Fort Simpson, Great Bear crossing near Fort Norman; East Channel, Swimming Point crossing
	19837			Williams		Summer current in Shallow Bay
131	19873-74	Mar.17		Williams	CAGPL	Tununuk Junction; extra borrow requirements due to compressor station move, new airstrip
	19883-85			Purcell	CAGPL	Valves at milepost 336; use of twin 36-inch lines
	19910			Williams		Snow fences used to accumulate snow, Barrow, Alaska
	19937			Gibbs Williams	Foothills	Changing to summer construction, gravel work pad, Richards Island
	19961-65			Williams		Gravel sources for spread B, Yaya area on Richards Island, Shingle Point, operations and maintenance equipment at Tununuk
	19976-77			Purcell		Moving compressor station CD-08 to Tununuk Junction

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132	20009-11	Mar.18	YK	Williams	CAGPL	Activity at Tununuk Junction; land nearby of historical interest for native people of Tuk
	20046			Williams		Route crosses fan of Malcolm river to avoid foothills of Richardson Mountains
	20110			Williams		Maintenance base of Tununuk Junction
	20124-35			Purcell Williams	CAGPL	Effects, cost of moving compressor station CD-08 to Tununuk Junction; new staging area at Axe Point, Enterprise still to be used; granular deposits Tununuk Junction, Yaya esker
	20140-44			Minning	CAGPL	Borrow sources, Yaya esker; completing uses for Tununuk area sources; Shingle Point deposit
133	20129-34	Mar.23		Rowe	CAGPL	Compressor station move to Tununuk Junction; Taglu to Thunder River portion of cross-Delta route like Richards Island re revegetation; Richards Island, grizzly bear impact; Mount Goodenough, Dall sheep, no impact from cross-Delta route; Rat River - MacDougall Pass IBP site also avoided
	20146-57			Environmental panel	CAGPL	Compressor station, Tununuk Junction better for birds; moose wintering, Campbell - Sitidgi Lowlands, Thunder River Valley; possible impact on domestic fishing, Herschel Island, Barter Island, whale hunting, Herschel Bay, Tent Island, Shoalwater Bay, Mackenzie Bay; recommendations re gravel barges, Shingle Point
	20173-74			Gunn	CAGPL	Snow geese nesting on Baillie Island when Banks Island not usable
	20181-82			Gunn		Preferable to have pipeline junction at Tununuk rather than Tununuk Junction
134	20220	Mar.24		Jakimchuk	CAGPL	Possible conflict with Richards Island grizzly bear population
	20231-51			Webb	CAGPL	Whale hunting at Bird Camp, Whitefish Station on Shoalwater Bay; whales in Mackenzie Bay; disturbance of barging gravel from Shingle Point; whale calving Mackenzie Bay, Kugmallit Bay; snow geese Tent Island
	20256-73			Bayly	COPE/ITC	Whale hunting, Hendrickson and Richards Islands, Kidluit Bay; effects on whales, artificial island construction, possible increase of oil, gas activity Mackenzie Bay; experiences in Churchill River estuary; use of Banks Island river estuaries by whales; whale calving, Mackenzie Bay; experiences in St. Lawrence, North Sea; ice between Pullen and Richards Islands as barrier to whale movements
	20313-15			Webb		Whale studies, Kendall Island, Banks Island areas
	20323-29			Webb Gunn	CAGPL CAGPL	Whale disturbance observations, Cunningham Inlet, Lancaster Sound; possible impact of heavy boat traffic, Mackenzie Bay gravel barging from Shingle Point, overflights of Mackenzie Bay
	20336-39			Gunn		Borrow site at Shingle Point, possible effect on birds; would prefer compressor station at Tununuk rather than Tununuk Junction for birds
	20363			Webb		Concern for gravel barging from Shingle Point
	20370			Webb		Impact of disturbance in Mackenzie Bay on whale calving
	20391-95			Jakimchuk	CAGPL	Impact of cross - Delta route on muskrat populations, Langley, Richards Islands; Mount Goodenough Dall sheep not affected by route
135	20427	Mar.25		Gunn		Moulting waterfowl concentrations, Tent Island, West Mackenzie Bay, Mallik Bay
	20445			Gunn		Area near Tent Island important for whistling swam nesting, other waterfowl, shorebirds
	20467			McCart	CAGPL	Domestic fishing sites, Big Eddy, Yaya Lake
	20524-26			Hemstock	CAGPL	Avoiding McCougall Pass IBP site; barge traffic, West Mackenzie Bay; gravel barging from Shingle Point; supply compressor station at Tununuk Junction

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135	20534-37	Mar.25	YK	Webb Hemstock	CAGPL CAGPL	Barge traffic, Mackenzie Bay, impact on whales
	20567			Webb		Ice movements, Mackenzie Bay, Richards Island
139	21085-92	Apr.7		Bayly Stephen	COPE/ITC MVPI	Gravel removal from Gary Island - granting of land use permits
	21136-40			Simmons	MVPI	Banks Island, Sachs Harbour - social impact of oil exploration on islanders
	21271			Nicol	COPE/ITC	Vancouver Island - oil spill - oil difficult to burn
140	21280-84	Apr.8		Nicol Berger		Resolute Bay - oil spill, dyke wall failure; Japan - size of Mitsubishi storage tanks - Tuktoyaktuk harbour - use by oil freighters
	21297			Nicol		Burrard Inlet - coastguard, harbour people trained for oil spill contingency operations
	21304-11			Usher	COPE/ITC	Banks Island - granting of exploration permits; Sachs Harbour - meeting between petroleum company officials, residents re exploratory work
	21356-57			Allison	COPE/ITC	Cape Parry - offshore oil spill experiments
	21417-18			Usher		Cape Bathurst - resident opposition to oil exploration, development
147	22501	Apr.28		Nahanni	NWT/MA	Dene place names recorded in study of trappers, hunters routes
	22518-19			Nahanni		Intimate knowledge by Dene of their land, have place names for all land marks and features; examples
147	22638-49	Apr.29		Rushforth	NWT IB/MA	Great Bear Lake region, place names relating to hunting and fishing
	22648-49			Rushforth		Places where camps are maintained for seasonal use, Great Bear Lake region
149	22748-59	May 3		Ritter	NWT IB/MA	Place name study conducted among the Kutchin people of the NWT and Yukon
	22759-70			Ritter		"Destruction City" an encampment of people going to the Klondike, 1890's; categories of place names studied among Kutchin people
	22770-86			Ritter Sittichinli	NWT IB/MA NWT IB/MA	History of Peel River area; traditional names; comments or place names of the area
	22787-804			Ritter Sittichinli		Place name study, collective land use through time; use of personal names for places; Athabaskan languages, words meaning "people"
151	23054-55	May 5		Irving	CYI	British, Richardson mountains
	23061			Irving		Engigtsciak, Firth River, archaeological site clusters
	23140			Johns	CYI	Names on Alaska highway came from U.S. Army officers
152	23343	May 6		Notti	CYI	Probitiof Islands, Kodisk, Kotzebue - offshore oil exploration, development
153	23426-27	May 7		Sharpe	CYI	Tintina Fault, area under extensive mineral exploration
C-41	3916-17	Mar.2	HOL	Aleekuk	Citizen	Pearce Point, Paulatuk, Lady Harbour, Cape Baring
	3928	Mar.3		Joss	Citizen	Reid Island trapping
	3938			Inuktalik	Citizen	Berkley Point, hunting bears at Nelson Head; whales at Berkley Point
	3945-50			I. Aleekuk	Citizen	Trapping on Holman Island, fishing in Fish Lake, sealing at Minto Inlet
	3953-55			Joss		Whales near Reid Island, Baillie Island, Minto Bay, Klengenber Bay
	4001-04			W. Goose	Citizen	Where people lived before moving to Holman Island; Eiluk, Kugiak, around Minto Inlet, Walker Bay

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C-42	4071	Mar. 5	SACHS	Rousselot	Citizen	Study, history of Banks Island, colonization and exploitation by man
	4073-78			Rousselot		Archaeological sites on Banks Island, Thomsen River, Shoran Lake, Nelson Head, Cape Kellett, Ballast Beach, Muskox River
C-44	4237-38	Mar. 9	TUK	C. Gruben	Citizen	Life story, Blue Fox Harbour, Banksland, Desalis Bay, Cape Parry, Booth Island, Cape Bathurst
	4241-47			Cockney	Citizen	Shingle Point, Dennis Creek, Kendall Island, Jesse Bay, Bowen Island, Roger Island, Holman Island, Desalis Bay, Banks Island
C-51	5175-83	May 12	VAN	P. Chataway	Citizen	Prince William Sound, Valdez, Colville River, Alaska
C-52	5246	May 13	CAL	M. Prior	Citizen	Old Crow Flats
	5393-94			C. Osborne	Citizen	Old Crow Flats
154	23554	June 29	YK	Puxley	NWT IB/MA	Erasure of Dene names, Mackenzie Valley
162	24941-42	July 13		Trusty	CAGPL	Katovik, Alaska, employment arrangement with Alaskan Arctic Gas
	25061-64			Trusty		Axe Point, Enterprise, staging areas for equipment, materials; staffing required
167	25866	July 21		Brody	COPE/ITC	Southhampton Island, white fox returns
168	26066	July 22		Brody		Cape Bathurst, land freeze
	26179-80			Brody		Slave Lake, Alberta; Queen Charlotte Islands, B.C.; Clyde River; Belcher Islands
193	30089	Oct 5		Hernandez	EPB	Reindeer Station - aircraft flight corridors - routing should be north of line Sitidgi Lake - Reindeer Station, May 15 - Oct. 15
	30103-07			Hernandez		Old Crow Flats - recommendations - slope stability, IBP sites, caribou Dall sheep, aircraft corridors and attitudes, garbage disposal, siltation
195	30560-61	Oct. 7		Kosten	Foothills	Swan Hills, experience with winter conditions and construction productivity
	30610-11			Dau	CAGPL	Komakuk Beach, Shingle Point, productivity losses due to wind chill
195A	30738			Dau		Komakuk Beach, methodology used in calculating winter construction period

POLITICAL CONCEPTS

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143	21791-95	Apr. 14	YK	Cardinal	IAA	Use of the words "nation", "nationhood"; Dene nation
143-A	21846-49			Russell	NWT IB/MA	Concepts of "nation", "nationality"; use in Canada
144	21886-88	Apr. 15		Sanders	NWT IB/MA	Concepts of "conquest", "discovery" "occupation"
	21895-96			Sanders		Reinterpretation of the concept of conquest, English law
	21940-41			Sanders		Use of word "sovereignty"
	21943-44			Sanders		Concept of "fee simple"
	21969-74			Saul	NWT IB/MA	Concepts of "nation", "nationalism"
	22053			Bean	NWT IB/MA	Concept of "nordicity"
	22063			Bean		Definition of political consciousness
147	22404-406	Apr. 28		Page	NWT IB/MA	Prairies, 1880's community and political organism, term "nation" used by Métis; mid 19th century, Ontario
150	22925-28	May 4		Simpson	NWT IB/MA	Terms "biculturalism" and "multiculturalism"
154	23545-61	June 29		Puxley	NWT IB/MA	Colonialism; bureaucratic relationships; decolonization; colonial false - consciousness

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171	26636-40	Aug. 17	YK	Dixon	MVPI	Fairbanks, conservative values of community, reluctance to expand local government
	26681-88			Dixon		Alaska, interest groups, affecting neutrality of Impact Information Center; change from pro to anti-development
176	27455-66	Aug. 22		Robinson	COPE/ITC	Dominance by majority or system disintegrated, education; rejection of melting pot concept in Canada
181	28160-61	Sept 8	YK	Nousiainen Berger	MVPI	Importance of defining notherner; chance of different political structure after land settlement, qualifications for voting rights
	29198-202			Breckenridge McRae	MVPI MVPI	Territories need provincial status, civil rights, control over destiny, self-governing
184	28471-72	Sept 14		Atcheson	COPE/ITC	Imposition of white philosophies on natives
	28526-27			Atcheson		Native self-government, more control
187	29101-10	Sept 17		Berger Falk Roland	NWT IB/MA	Concept of "nation"; status of "state"; definition of "peremptory norms"
192	30053-55	Oct 5		Krauss	MVPI	No nation has survived its language; no nation can die while its language is alive

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C-26	2641-42	Sept.9	FS	Lafferty	Citizen	Fort Simpson re: population increase; impact on trapping and hunting economy; arrival of non-residents of the North re: effects on natives; environmental changes re increase in population
C-31	3024-26	Oct.7	FR	Menez	Citizen	Transient population; white, native population
C-36	3490	Jan.28	In	Adam	Citizen	Data for Aklavik
C-38	3652-55	Feb.12		Allison	Citizen	Population increase and impact in Anchorage associated with Alyeska Pipeline
113	17150-56	Jan.21		Hobart	GPC-D	Mackenzie Delta Area
	17183			Hobart		Movement to communities from hinterland, population proportions, birth rates etc.
117	17834-35	Jan.26		Bell	NWT IB/MA	"Communities of the Mackenzie by Van Ginkel Associates Limited, population of Inuvik
143	21821	Apr. 14	YK	Fumoleau	NWT IB/MA	Early census figures of DIAND for NWT
	21828			Fumoleau		Size of Indian population, 1944
144	22009	Apr. 15		Barnaby	NWT IB/MA	Population, racial mixture of Fort Smith
145	22173-81	Apr. 26		Smith	NWT IB/MA	Population decline of native people in amazon region of Brazil since first contact in 1820's
148	22645	Apr. 29		Rushforth	NWT IB/MA	Population of Fort Franklin, approximately 400
150	22862-63	May 4		Hills	NWT IB/MA	Aboriginal peoples, forced migration, expulsion; extermination of aboriginal remnants; population decline in Brazil, Guyana, Australia, New Zealand
	22887			Hills		Racial groups in Brazil
	22942			Kurszewski	NWT IB/MA	Fort Smith has total population of 2,800, of which 1,600 are Dene
151	23049	May 5		Irving	CYI	Prehistoric Kutchin people, orientation to caribou corrals, communities of approximately one hundred
	23091			McClellan	CYI	Number of native people, Yukon
C-50	5058-64	May 11	VAN	Potts	Citizen	PAAG statement that native people would become minority in north
C-59	6489	May 26	TOR	D. Matthews	Citizen	Northern people - Eskimos, Indians, Metis, non-natives
C-62	6883	May 31	MTL	Poirier	Citizen	In 1950 the number of Inuits was not known
157	24072-81	July 5	YK	Hobart Berger	CAGPL	Rapid increase in Territory, native population, status and non-status Indians; birthrate statistics; length of residence in NWT by non-natives
158	24140-42			Hobart		Statistical tables for NWT

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159	24304-06	July 7	YK	Boorkman	CAGPL	Alaska, boom periods, accelerated in-migration; growth in population for the state, major communities
	24328-41			Boorkman		Pipeline boom, Alaska, accelerated patterns of in-migration; shift from majority of natives to non-natives by 1970; historical population patterns, boom-related migration
	24351-52			Trusty	CAGPL	Growth in NWT population since early 1900's; in-migration of new residents, situation different from that of pre-pipeline Alaska
	24483-86			Boorkman		Alyeska, in-migration to Alaska, 70,000 to 80,000
	24526-28			Boorkman		Alaska, in-migration, peak employment
159-A	24548-50			Boorkman		Alaska, population prior to Alyeska
	24557-69			J. Weinstein Boorkman	CAGPL	Statistics re inflow since Alyeska pipeline; Alaska, history of boom-related in-migration
	24578-89			Boorkman	CAGPL	Alaska, relationship between population growth and stages of Alyeska pipeline
162	24980-83	July 13		Reesor Trusty	NWT/AM CAGPL	Possible out-migration from communities due to employment opportunities
	24996-5000			Trusty		Elimination of in-migration, location of hiring halls outside of region
	25086-89			Trusty		Alaska, massive in-migration, impact on economy; steps to be taken by CAGPL to prevent in-migration
163	25123-25	July 14		Hobart	CAGPL	Greenland, influx of Danes; in-migration of Whites to the south
	25177-92			Trusty		Factors leading to possible in-migration
	25234-40			Trusty		Land use regulations, possible effects on in-migration
	25265-66			Hobart		"Baby boom", impact on educational system
164	25421-34			Hobart		Definition of a "northern resident"
167	25926	July 21		Usher	COPE/ITC	Influx of transients, impact on communities
168	26105-06	July 22		Brody	COPE/ITC	Very little permanent native out-migration
170	26401-11	Aug. 16		MacLeod	Foothills	No development, rate of natural increase; estimates of population projections; impact of growth on ethnic balance
	26493-510			MacLeod		Declining population in Inuvik, Fort Simpson, due to postponement of development
171	26545-47	Aug. 17		MacLeod		Estimation of migration; multiplier for growth
	26623-25			Dixon	MVPI	Alaska, suggest need for census data for impact projects; collection before start of pipeline
172	26711-17	Aug. 18		Dixon	MVPI	Distance factor of camps from communities affecting social impact, population growth; calculations of in-migrations difficult to assess Alaska
	26743-48			Dixon		Impact of growing population, Fairbanks
173	26898-903	Aug. 19		Kyllo	COPE/ITC	Alaska, influx of development, people into Anchorage area; relationship between population
	26919			Kyllo		High percentage of young people in the north as compared to the rest of Canada
	26979-82			Lainsbury	NWT/AM	Population projections for Inuvik, Fort Simpson, Hay River, under normal and accelerated growth situations
	27004-06			Dusel	NWT/AM	Planning for a population growth in Fort Simpson up to 3,000; development plateaus
174	27071	Aug. 20		Bayly Lainsbury	COPE/ITC	Native and non-native content of communities which are members of Association of Municipalities
	27105-06			Lainsbury		Average household size of employees with skilled jobs
178	27604-96	Aug. 26		Pritchard	MVPI	Possibility of out-migration in communities if construction stretched out, little effect of transients

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178	27653 27674-75 27696-716	Aug.26	YK	Pritchard Runge Runge	MVPI MVPI	Economic effect of transient work force Growth rate, NWT, affect on housing Housing crowding index, growth rates applied to stock, family formation, projections, net migration, growth of communities
179	27746-50 27759-60 27777-78 27802-03	Aug 27		Runge Runge Runge Runge	MVPI	Migration due to induced employment; growth multipliers; government in-migrants for monitoring purposes Percent of people living in communities of less than 1,000 Growth of Inuvik; increase in family formation as indicator of housing requirements Family formation rate to 1981, model used for predicting
180	27849	Sept 7		Hodson	MVPI	Transients must apply for employment through appropriate hiring hall; strict definition of bona fide Territorial resident, to control transients
181	28190	Sept 8		McRae	MVPI	Shortages of law enforcement personnel and facilities due to influx
182	28252	Sept 9		Forth	MHA/NWT	Recommended that transients be discouraged from pipeline work
183	28410	Sept 10		Clarke	COPE/ITC	Density figures, crowded living conditions
184	28463 28483 28522	Sept 14		Kehoe Kehoe Atcheson	COPE/ITC COPE/ITC	Exploitation of natives, influx of transients Difficulty in restricting transients High number of young people
189	29333-40 29352-57 29387-88 29395-401 29425-26A 29440-41	Sept 22		Hill Berger Hill Robertson Robertson Berger Robertson Harris	NWT/AM NWT/AM	Residency requirement in Inuvik before voting for mayor, councillor; population increase expected due to development; problems of short-term population growth and voting privileges Decline in Inuvik's population; numbers associated with Canadian Forces Station, Inuvik Current municipal grants based on population figures Inuvik's capacity to absorb predicted population growth, physical problems may control growth Estimated current population of Inuvik Population profile of Fort Simpson, with and without a pipeline
189A	29495-98 29554-57			R. Worl Mrs. Worl Berger Buchholdt R. Worl	COPE COPE COPE	Populations of Barrow, Wainwright, Point Hope, Barter Island; non-Eskimo population of Barrow; population of North Slope Borough White in-migration into Barrow, total population of Barrow; natives become minority because of in-migration
190	29633-35 29681-82 29687-96 29701-05	Sept 23		Roska Fogg Berger Taylor Scott Fergusson Henne	NWT/AM NWT/AM NWT/AM MVPI NWT/AM	Preventing movement into northern communities, possibility that Dempster Highway will not be completed Problems of increased census count due to development in Hay River Percentage of transients in Hay River's population; keeping people out of NWT (tactfully); Hay River's plans for induced population increase Yellowknife's population increase due to acquiring seat of Territorial government; problems of increased population, need for better services
192	29888-92 29931	Oct 4		Baring-Gould Baring-Gould	MVPI	Valdez before impact of pipeline, population trends, changes, social relationships Population projections must be more carefully scrutinized

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192	29944-49	Oct. 4	YK	Bennet Baring-Gould	MVPI MVPI	Population percentage that moved out of Valdez after earthquake; present population; transiency in community, period of transition in Valdez
200	31649	Nov. 15		Genest	CAGPL	Review of native population, age groupings
204	32256-57	Nov. 19		Hardy	NWT IB/MA	Number of Metis living in North

POPULATION - IN SCHOOL

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C-5	328-333	May 29	Hay River	Graves	Citizen	900 Students, Hay River school system
C-21	2079-82	Aug. 9	N.W.	P. Howard	Citizen	Current enrollment in Norman Wells
106	16274-75	Dec. 18	YK	Lent	CARC	Results of pipeline construction at Fairbanks re: overcrowded school system, split school shift; university re: high personnel turnover
157	24120-26	July 5		Hobart	CAGPL	Residential schools' impact on traditional ways of children; increasing educational attendance; drop-out rate
159	24320-21	July 7		Boorkman	CAGPL	Alaska, impact of Alyeska, statistics; increase in number of students not as great as projected

POPULATION - PIPELINE RELATED

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C-5	400-403	May 29	Hay River	Graves	Citizen	Effect on schools, hospitals, etc.
C-21	2152-58	Aug. 9	NW	G. Loomis	Citizen	Strain on housing, lots, services; projected increase
C-23	2315-16	Aug. 14	WH	A. Fekete	Citizen	Temporary increase
76	11232-40	Oct. 21	YK	A. Cuvret Weedon Parker	People's Land Committee CARC CARC	Cause of housing shortages in Alaska Construction workers' families; Alaskan citizens; native employment; strain on social services, tight housing market
82	12263	Nov. 6		Williams	CAGPL	Impact of permanent residents involved in operations and maintenance
90	13653	Nov. 19		Gunn	CAGPL	Danger to birds from increased population
C-25	2562-67	Sept. 8	FS	Ivans	Citizen	Transient, permanent population increase re: facilities, services, needs, cultural impact
C-33	3217	Oct. 9		Gilmore	Citizen	Decline and rise of population because of pipeline
C-39	3708	Feb. 18	In	Robertson	Citizen	Facilities to accommodate population increase in Inuvik
129	19683-86	Feb. 19		Speller	MVPI	Impact of population expansion and tourism, environmental disturbance; wildlife disturbance by rig workers to Inuvik
171	26601-603 26639-43	Aug. 17	YK	Dixon Dixon	MVPI	Effects of increase on resources Effects of trist-boom cycle, shortages and over expansion
174	27108-12	Aug. 12		Lainsbury	NWT/AM	High, low population forecasts
189	29323-32	Sept 22		Hill	NWT/AM	Fear that native residents of community will lose control to newcomers; right of person to contribute to community, does not support long period of residency before voting; projected population growth of Inuvik
190	29616-27	Sept 23		Feilden	NWT/AM	Impact of pipeline on populations of Inuvik, Hay River, Fort Simpson; preparing Inuvik for rapid growth; water supply and sewerage projects; housing, land development plans; recommends population forecasting, access to development capital, no interest payments on impact growth capital
	29628-30			Feilden		Predicted growth rate of Inuvik, if pipeline
	29684-85			Fergusson	NWT/AM	Determination of projected population increases in Hay River

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192	29896-900	Oct 4	YK	Baring-Gould	MVPI	Valdez, boom town growth after pipeline; effects on residents
	29914-15			Baring-Gould		Valdez after Alyeska Pipeline, overburdened community services due to rapid growth rate
	29956-61			Bennett Baring-Gould	MVPI	Inaccurate predictions of population growth in Valdez, lack of funds; Valdez needed more information to plan for accommodation
203	32145-47	Nov.18		Veale	CYI	In-migration, overcrowding; extent and effects of in-migration should be monitored by communities; decrease in political and economic power of residents because of in-migrants; ten-year residency rule recommended

PUBLIC OWNERSHIP - PIPELINE

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C-52	5228-29	May 14	CAL	Blair	Foothills	Northerners wanting to be included on Board of directors of pipeline companies
C-56	6042-45	May 19	REG	P. Black	Citizen	Proposed public ownership, corporation building pipelines; benefits to the north
C-60	6678-80	May 27	TOR	E. Welsh	Citizen	Nationalization of resources; protection of rights CDN consumer
157	24020-27	July 5	YK	Thompson	NWT IB/MA	Rights of people to own resource, key to financial independence
	24045-48			Bayly Thompson	COPE/ITC NWT/IB/MA	Participation in ownership, management, revenue, from oil and gas development
	24049-53			Scott Thompson	MVPI	Land owner's right to decide how the land will be used
181	28121-23	Sept 8		Reimer	MVPI	Native, control future of land, control development
28129				Reimer		Private control not serve people's interest, Canada has shown no hesitation about public ownership historically
184	28534	Sept 14		Kehoe	COPE/ITC	Natives and Government should have shares in pipeline

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44	5812-18	May 23	YK	Berger		Development of terms and conditions
45	5899-5902	May 24		Berger Bayly	COPE/ITC	Terms and conditions; community hearings
46	6031-34	June 2		Templeton	EPB	Impact predictions, role of government application and public
	6039			Templeton		Reports to define terms and conditions
	6043			Craik	EPB	Environmental protection - level of performance
	6146-47			Bliss	EPB	Protection of terrain and vegetation, fire management, need for additional research
47	6163	June 3		Wilimovsky	EPB	Speed of current through culvert to allow fish movement
	6177-93			McT-Cowan	EPB	As regards protection of birds
	6209-27			McT-Cowan		Summary page 6220
	6263-78			McT-Cowan		Impact (environmental) presently unacceptable
48	6330-53	June 4		Wilimovsky		Single authority, training program, etc.
	6354-66			Craik		Need for environmental training program
	6373-6421			Templeton		Environmental auditor group; specific code
	6437-40			Templeton		3 levels - policy, general and local (site specific)
C-5	383-395	May 29	Hay River	Tetrault		Small businessman, bonding, trade certification
C-11	991-92	July 8	F. McP.	T. Francis		Native people wish to continue way of life
C-16	1535-37	July 13	O.C.	Father Moucet		Four recommendations or guarantees
	1568			R. Charlie		Need rules to protect environment and guarantee jobs for native people
	1607-08			B. Sharpe		CAGPL should bear the costs of any increase in social costs
58	8143-46	Aug. 20	YK	Blair	Foothills	Foothills to provide recommendations as to their proposal to protect the environment; studies yet to be finalized
53A	7303-06	Aug. 13	WR	Leonard	CARC	Stipulations re: roads on prime route Comparison of alternative routes
C-20	1987-89	Aug. 7	FGH	A. Tobac	Citizen	Government programs in health, education and employment should be revamped
C-22	2252	Aug. 11	WR	T. Nairn	Citizen	Committee to supervise fire prevention building standards in camps
C-23	2340-41	Aug. 14		R. McCandless	Citizen	Wage rates, land claims, community supply and toll tariffs
	2351-52			C. Taylor	Citizen	Brief of Yukon Conservation Society
66	9682	Sept. 22	YK	Berger		Scott to investigate terms and conditions of advance clearing of sensitive areas
68	10223-28	Sept. 24		Templeton	EPB	Drafting of specific recommendations for pipeline regulations
69	10231-32	Sept. 25		Templeton		Writing the terms and conditions of Phase 1
	10460			Owen	MVPI	Regulations re: use of major transmission after installation; access
	10481-84			Owen		Pointed Mountain ; remedial steps to prevent future damage; ensurance of such steps; land use inspector; Fort Liard land use inspector
	10491			Owen		Use of the right-of-way; policing of use of the right-of-way
70	10592-93	Sept. 26		Lewis	MVPI	Incorporate the culvert into the Battelle model; drilling program to identify all streams with a significant ground water flow; input data for the Battelle model; testing of culverts
85	12682	Nov. 12		Bayly	COPE/ITC	Participants' recommendations re liquid storage near water, other than CAGPL
89	13500-01	Nov. 18		Jakimchuk	CAGPL	Controlled access to Porcupine herd via Dempster Highway
92	13980-81	Nov. 21		McCart	CAGPL	Re: Building highway adjacent to road; fishing; impact on fish population
	13996			McCart		Study of synergistic impact on fish of high silt load and methanol not to be recommended

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93	14156-60	Dec.1	YK	Hemstock	CAGPL	Recommendation as to location of dock site at Demarcation Bay, alternative to Demarcation Bay site; avoidance of Ptarmigan Bay; Komakuk Beach remains a staging area; avoidance of Escape Reef; contingency plans re: transportation of materials; work slow downs and strikes
94	14207-44	Dec.2		Environmental Panel	CAGPL	Route preference; environmental concerns; Upper Delta region; sensitive environmental areas; interior route; staging areas; compressor stations re: proximity to nest sites, mobility
95	14509-18	Dec.3		Bayly Berger		MOT aircraft flight regulations and support; enforcement
96	14536 14606-11	Dec.4		Jakimchuk Veale Jakimchuk	CYI	To produce a list of recommendations to the Inquiry Scheduling of support traffic access for the Interior route, June 1 to Sept. 1, variations due to caribou migration and utilization of winter range; speed limit precautions on the Dempster; vehicle use, convoys; further research - post calving aggregation
	14658-67			Banfield Jakimchuk Hemstock Veale	CAGPL	Posting of a security bond by CAGPL to ensure maintenance of the Porcupine Herd
	14672-73			Jakimchuk	CAGPL	Shutdown of construction if caribou survival was threatened; major winter kill
	14702-03			Gunn	CAGPL	Flight heights, sensitivity of birds; route selection
97	14724-32	Dec. 5		Bell Jakimchuk	NWT IB/MA	Mitigative measures re winter construction activity, inter-actions with moose, rescheduling, route selection
	14737-72			Berger Hemstock Templeton Scott Marshall	CAGPL EPB MVPI CAGPL	Re terms and conditions, gas and oil pipelines, highway along corridor
	14772			Hemstock		Separate impact assessment required for looping
	14774-80			Gunn Hemstock		Re cross-delta route; preference for old prime route for birds
	14794-14820			Templeton Gunn Jakimchuk McCart	CAGPL	Restricted access periods, North Slope, Mackenzie River; overflight restrictions; enforcement of recommendations
98	14914-19	Dec. 8		Scott Gunn		Increased human access to birds
	14983-15006			Jakimchuk Banfield Hemstock Gunn	CAGPL	Limiting human activity during construction periods, on highways; hunting, fishing; game management; Dempster highway
99	15034-44	Dec.9		Hemstock	CAGPL	Matching environmental, engineering recommendations; environmental manual; tradeoffs; contingency plans
	15112-13			Bouckhout	Foothills	Relocations of line and facilities; impact mitigation
	15133-34			Whitney	Foothills	Impedance of moose movements, Mackenzie River islands
	15169-77			Environmental Panel	Foothills	Recommendations from consultants to Foothills
100	15201-03	Dec.10		Bouckhout		Foothills' consideration of environmental consultants' recommendations
	15264-65			Bouckhout Finney	Foothills	Aircraft overflight, altitude, corridors
	15272			Bouckhout		Mitigative measures
	15313-18			Hayden	Foothills	Protective measures for commercial, domestic fisheries
	15325			Scott	MVPI	Asking Finney (Foothills) whether CWS should give permission to locate Taglu gas scrubbing plant in Kendall Island Bird Sanctuary
	15338-43			Whitney Bouckhout Hayden		Relocation of line along abandoned CNT line; more communication between biologists, geotechnicians

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101	15442-47	Dec.11	YK	Peterson	CARC	Proposed IBP sites; measuring impact after construction; locations; liaison between IBP representatives, industry consultants
	15461-62			Zoltai	CARC	Snow roads in hummocky terrain
	15465-66			Zoltai	CARC	Terms, conditions to restrict width of ROW on sensitive permafrost areas
	15530-31			Scott Zoltai	MVPI	Matters related to judgement
	15532-33			Zoltai		Recommendations from DOE Task Force on Pipeline Assessment
102	15543	Dec.12		Zoltai		Agrees with recommendations contained in E-SP report 73-4
	15587			Zoltai		Steel poles for pilings instead of wood
	15655-60			Novakowski	CARC	Management, preservation of rare and endangered species
103	15725	Dec.15		Stein	CARC	Re stream flow variation (fish protection); utilization of standard trenching techniques in frozen bottom streams, special sediment controls in running water streams
	15729-30			Stein		Water use from lakes and stream
	15732			Stein		Stream culvert construction guidelines
	15742-43			Stein		Aquatic ecosystem program, biological monitoring programs, fishery officers
	15797-98			Millen	CARC	Fish protection, design review process
	15760-88			Steigenberger	CARC	Further study re fish resource along Beaufort Sea - Mackenzie Delta area, toxic spills, Interior route-critical habitats; refined petroleum storage facilities, transport; gravel removal re critical areas, corridor concept, quotas, ancillary projects, monitoring; water removal re utilization extent; overwintering sites; Biological Engineering Evaluation Report recommendations; post-construction
	15817-18			Stein	CARC	Water extraction from lakes, small streams
104	15867-70	Dec.16		Stein		Further studies on sedimentation, toxicity; relate work to Northern species, organisms, environment; fish populations
	15870-70			Stein Walker Steigenberger Millen	CARC CARC CARC	Recommendations re fisheries - habitat assessments, toxicity studies, sedimentation, trench dredging, stream crossing berms, water utilization - aufeis areas, wharf and staging areas, time scale, erosion control techniques, subsurface flows past ice bulbs
	15896			Stein		Shallow Bay fish migration route re proposed crossing, dredging
	15937-41			Walker		Suggestion by Bayly re addition of a No. 5 recommendation re testing of construction monitoring methods
	15973			Walker	CARC	Construction plans and practice regulating follow-up studies
105	15985	Dec.17		Millen	CARC	Buffer strip of 300 ft. between rivers, stream and gravel removal operation sites
	16084-86			Steigenberger	CARC	Standards, operating guidelines re silt levels
	16097-100			Stein		Sedimentation control built into trenching design; river crossings re effect on fish
	16114-22			Stein		Crossing construction re monitoring to ensure manner of final design package; conflicts within recommendations must be resolved, evaluated, justified, incorporated and implemented; work of committee re assimilation of recommendations by panel, enforcement of terms and conditions
106	16239-40	Dec.18		Calef	CARC	Program re following population dynamics of caribou herd during and after project to detect changes or trends
107	16306	Jan.12		Templeton	EPB	Recognize the sensitivity of the Delta region; question the corridor concept

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107	16318-39	Jan.12	YK	Templeton Wilimovsky Craik	EPB EPB EPB	Creation of a pipeline authority - responsibilities, studies, Federal input, co-ordination of existing laws and legislation, duration; environmental standards; environmental inspectors - training of, aids and manuals; more research - methanol disposal and effects
	16350			Adam	EPB	Techniques to reduce or eliminate frost bulb require further testing
	16372-80			Wilimovsky Templeton		Fishing regulations re conflicting usage, data collection, definition of domestic fishing; Pipeline Authority - make-up, responsibilities, existing legislation
108	16410-11	Jan.13		McT-Cowan	EPB	Minimum altitude of aircraft overflight of caribou herds - CAGPL, EPB recommendations, supportable by data; precision in testing; need for more research re caribou disturbance
	16447-55			McT-Cowan		Posting of a surety bond, for construction period or for the life of the project
	16510-11			McT-Cowan		Need for project expansion re game management in the Yukon; flight altitudes and regulations
	16552-58			McT-Cowan Thomson Templeton	EPB EPB	Sequences of the pipeline - looping, oil pipeline; continuous sequence of events versus a cool down period; learning from past mistakes; reclamation of gravel; land use plans - government, corridor concept
	16561-81			Environmental Panel	EPB	Land use planning; corridor concept; development of resources; unique environmental areas; Canada Land Use Inventory - assist in planning process; wildlife - renewable biological resource; land claims; parks and wilderness areas; reporting to the public the issues of construction and input; auditor group
109	16585	Jan.14		Templeton	EPB	Need for land use planning
	16590-95			Wilimovsky	EPB	Environmental auditors; auditor in the degree to which the project is conforming to acceptable environmental protection practices; qualifications; public awareness, ombudsman mechanism
	16609			Gourdeau	EPB	Training of employees; by an outside organization re Frontier College
	16663-65			Templeton		Need for new attitude towards development, trade off areas re disturbed areas, non-disturbed areas
	1667C			Templeton		Unique areas, undisturbed areas require special attention
	16683-86			Craik Thomson Adam Bliss	EPB EPB EPB EPB	Areas of further research - bird disturbance, slope stabilization, snow roads, revegetation
	16700-01			Wilimovsky	EPB	Fish management needed; water quality standards
	16713-14			Templeton		EPB - "Towards A Code"; aircraft overflights regulations
110	16769-71	Jan.15		Bergerud	CARC	Game management; need for international agreements re caribou; hunting rights, access; studies re caribou habitat, population dynamics
	16800			Bergerud	CARC	Need for baseline data re herd population dynamics; blood chemistry
	16828-30			Lent Calef Bergerud	CARC CARC	Do not recommend an International Wildlife Service; research; international organization to manage the herd
	16894-903			Carter Berger Marshall Anthony Lent	CAGPL CARC CARC	Statement of recommendations; undertaking by Jakimchuk, McCart, Gunn
111	16930-31	Jan.16		Calef Carter		If recommendations followed, impact on Porcupine herd minimal
	16953-56			Calef		EPB, re caribou; management, monitoring of caribou; give consideration to route south of Porcupine River; further research
	16978			Davies	MVPI	Measures to minimize environmental disruption

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C-25	2567-69	Sept. 8	FS	Black	Citizen	Co-operative effort - applicant, Fort Simpson re: spur line, water line construction
	2572			Deller	Citizen	Pipeline construction as a federal government project
	2586-87			Hammond	Citizen	Pipeline construction monitoring body
C-27	2723	Sept. 10		Fizer	Citizen	Union hiring halls are situated for convenience of Northerners
	2771			Fizer		Another Inquiry if public pressure re: application for oil pipeline
C-30	2892-93	Oct. 6	PP	Osing	Citizen	Railway utilization
C-34	3266-67	Oct.15	YK	Duesterhus	Citizen	Employment re northerners only, one-year residency, hiring in south, contract, infractions of contract, unions, rules, Independent Board to settle disputes.
	3313	Oct.16		Keener	Citizen	Regulatory Board to enforce application restrictions, set regulations
	3326-27			Humphreys	Citizen	Suggestion that government collect information from those experiencing it re: weather, wildlife; radio schools for children
C-36	3465-66	Jan.28	In	Billingsley	Citizen	Need for expansion, upgrading of inspection services
	3488-90			B. Allen	Citizen	Native employment guarantee by applicant, camp site location, regulations
	3493-96			Adam	Citizen	Protection of community, trappers from unwanted guests; agreement on land claims, industrial development; raising of reindeer herd, muskrats
	3522-43	Jan.29		Sineok	Citizen	Government programs re preserving traditional lifestyles of original inhabitants, aiding of natives prepared to make transition to industrial, commercial economy; legislation re parental care of children, welfare reception, family financial administration, educational probation for young law offenders; legal protection for children
C-39	3704-14	Feb.18		Robertson	Citizen	Employment of northern workers; construction and gas plant camps near Inuvik; regular evening visits by workmen to Inuvik restricted; airstrip upgraded at Inuvik; no need for satellite town; support for Dempster Highway; portion of taxation on fixed assets reserve for use of municipality; offsetting of recreational facilities; need for Half-Way House and Impact Centre; co-ordination of government spending; funds to up-grade property and recreation facilities; interest-free gas distribution
	3721-32			Hill	Citizen	Formation of Mackenzie Valley Pipeline Authority, staff, headquarters; involvement of local businesses, resident business liaison; action before, during and after construction
112	17089	Jan.20		Bliss	GPC-D	Harvest timber for pilings upstream of Peel River, research needed on regeneration
	17094			Bayly Bliss	COPE/ITC	EPB's position re regional plan for production area
	17101			Bayly Bliss		Sulphur dioxide levels in gas plant emissions to reduce impact on plants
115	17603	Jan.23		Berger		Recommendations by members of EPB re Northern Yukon pipeline routes
121	18400-402	Feb.10		Grainger	COPE/ITC	Studies - long-term effects of crude oil on bacterial nitrogen fixation, denitrification; bacterial biodegradation under ice; baseline data on impact of oil on all parts of marine ecosystem
	18416-23			Percy	COPE/ITC	Studies required on species composition, trophic inter-relationships, interaction between spilled oil and suspended sediments, zooplankton, sub-ice communities, physiological behavioural impact studies, ecosystem cleansing capacity
	18428-31			Stein	COPE/ITC	Timing of dredging seismic operations; enforcement of waste water, drilling fluid disposal regulations
	18434-38			Stein		Mechanical clean-up techniques, plans; resource monitoring studies
	18486-87			Sergeant	COPE/ITC	Whale sanctuary proposal for Reindeer Channel

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122	18492-97	Feb.11	IN	Sergeant	COPE/ITC	Research needed - whale response to water-borne sounds from oil, gas exploration; whale reserve in western part of delta
	18513-22			Smith	COPE/ITC	Seal study recommendations
	18547-51			Stirling	COPE/ITC	Scheduling of industrial activity in key polar bear feeding areas, seismic operations in denning areas; impact of man, industrial activity on bears; Arctic fox - population baseline study; study on P.C.B. contamination in polar bears, seals
	18553-54			Stein	COPE/ITC	Definition of spawning sites on Mackenzie River
	18581-87			Barry	COPE/ITC	Kendall Island bird sanctuary boundaries, Barry cross-Delta route proposal
	18599-601			Stein	COPE/ITC	Contingency plans to deal with oil spills
	18644-45			Marshall Stein	CAGPL	Monitoring of fish movements, construction activity
124	18920-22	Feb.13		Lewis	COPE/ITC	Coastal installations siting, Delta development
125	19103-14	Feb.14		Pettigrew	COPE/ITC	On information which should be incorporated into a comprehensive contingency plan and site specific action plans for toxic material spills, on response operations - discovery notification, containment and counter-measures, clean-up and disposal, restoration and repayment of damages, clean-up costs, fines
	19140			Snow	COPE/ITC	Contingency plans, equipment, environmental monitoring
126	19222-23	Feb.16		Snow		Training program - personnel handling hazardous materials; testing of clean-up equipment
	19279-83			Snow		On-land contingency plan clean-up, monitoring programs, open ditch methanol testing, company contingency plans
132	20086	Mar. 18	YK	Lane Marshall	COPE/ITC COPE/ITC	Producing promised lists of recommendations by Jakimchuk and McCart
133	20146-47	Mar. 23		Gunn Jakimchuk	CAGPL CAGPL	Re impact on birds, mammals of cross - Delta route
	20157			Webb	CAGPL	Re impact on beluga whales by cross - Delta route
134	20214	Mar. 24		Jakimchuk		Recommendations to CAGPL re environment should be part of game management plan
	20231-33			Webb		Restricting boat,air traffic on West Mackenzie Bay to minimize whale disturbance
	20306-07			McCart	CAGPL	Studies should be done of fish populations downstream of Delta river crossings, possible changes in alignment, scheduling to minimize impact on over wintering areas
	20325-31			Webb		Recommendations re construction activities, scheduling in Shallow Bay to minimize impact on whales
	20340-44			Gunn Jakimchuk		Re personnel, aircraft movements in Delta; recommendations re Delta allow for winter construction
	20361-69			Webb		Recommendations re whales in Mackenzie Bay, Shallow Bay
	20376-82			Webb		Re whales in Mackenzie, Shallow Bays, boat, air traffic
135	20421	Mar. 25		Bayly	COPE/ITC	Usher and Cournoyea evidence could be used for recommendations
	20425			Marshall		Jakichuk's recommendations will be supplied soon
	20428-29			Webb	CAGPL	Ditch spoil material, Shallow Bay crossing, barrier to whales
	20464			McCart	CAGPL	Construction of Delta channel crossings should cease if fish migrations held up
	20505-11			Jakimchuk Gunn	CAGPL CAGPL	Recommendations re grizzly bears, birds, Niglintgak supply line
	20589-601			Sprague	MVPI	Water quality criteria, standards to protect aquatic life

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136	20643-46	Mar. 26	YK	Sprague	MVPI	Government, industry should make regulations together re water quality; inspection methods
	20694-96			Peet	MVPI	Fisheries Department's recommendations dealing with pipeline construction impact on fisheries
	20710-13			Peet		To reduce impact on fisheries
139	21160	Apr. 7		Stephen	MVPI	Notification of pilots of minimum overflight levels
	21272-76			Nicol	COPE/ITC	Stockpiling of contingency equipment, use of chemical dispersants
141	21497-504	Apr. 9		Usher	COPE/ITC	Measures to ameliorate problems re: inadequate native/industry consultation, DIAND suppression of information, terms of reference of assessment bodies, institutional framework
142	21648-53	Apr. 13		Virtue	Nortran	Recommendations on transportation, housing, employment of northerners
143	21726-27	Apr. 14		Giroux	Nortran	Hiring of northerners; training for skilled and supervisory positions
151	23170-80	May 5		Smith	CYI	Recognition of rights to land claims settlement; incorporation of a new public corporation with native shareholders, participation in decision making
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152	23347-48	May 6		Notti	CYI	Native protection, employment, hunting
	23353			Notti		Need for training program in Alaskan communities so that they can become functional in operating corporations
C-40	3853-54	Feb.23	AK	Furlong	Citizen	Ten years for native people to develop land claims, preparation for pipeline
	3862			Greenland	Citizen	Government should remember promises to native people
	3889			Thrasher	Citizen	Native representatives with Berger when presentation is made to government
C-41	3961	Mar.3	HOL	B. Goose	Citizen	Establishment of a fact - finding committee, both sides presented
C-45	4358	Mar.10	TUK	Nasogaluak	Citizen	Panel to decide about offshore drilling and pipeline; compensation for loss of renewable resources due to exploration activities and pipeline
C-48	4668-70	Apr.30	FS	W. Applewhite	Citizen	Fort Smith's potential contribution to pipeline development
C-49	4781-82	May 10	VAN	Deroo	Citizen	Urging for a moratorium until land claims settled
	4794-95			Gallon	Citizen	Adequate environmental studies, technical studies to ensure proper construction, conservation policy, DIAND divested of its dual responsibility, no construction before land claims settled
	4810-15			Rankin	Citizen	There is no energy crisis, need for national energy policy, land settlements
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C-50	4859	May 11		O'Brien	Citizen	Ten year moratorium, just land settlement
	4868-74			Gillie	Citizen	Ten year moratorium, better measure of economic impact on Canada, land claims, better understanding of the two cultures, allow time for natives to have firm control of their resources, education improvements to retain native culture
	4936-50			Moyes	Citizen	Should be public participation during construction phase
	4961-62			Obedkoff	Citizen	Desire for 10 year moratorium, recognition of land claims, native decision making, longer residency for Southerners in north, northern development should be separated for native affairs
	4998-5005			Antonides	Citizen	Ten year moratorium as set out in the Dene Declaration, determine complete effects, new energy policy
	5045-46			Paine	Citizen	Conservation, develop alternate sources of energy

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C-50	5061-62	May 11	VAN	Potts	Citizen	Applicants to bear costs of the Inquiry, should not allow pipeline construction under present proposal
	5070			Sakamoto	Citizen	Recognition of Dene, Inuit nations, granting autonomous relationship with Canada as alternative, land claim settlement, ten year moratorium
C-51	5096	May 12		W. Taylor	Citizen	Suggested moratorium on pipeline construction
	5138			L. Hurst	Citizen	Settlement of land claims, moratorium on development in Mackenzie Delta
	5166-67			G. Watts	Citizen	Need for land claims settlement, native self-determination
	5200-03			L. Berry	Citizen	Native land claims; oil and gas deposits; foreign involvement
C-52	5444-47	May 13	CAL	M. Prator	Citizen	Moratorium on pipeline construction
	5251			Father Gauthier	Citizen	Pattern, type of inquiry
	5259			E. Reid	Citizen	Moratorium on all development in the north; greater priority, research into use of renewable energy sources
	5285-90			N. Llanos	Citizen	Moratorium on development; recognition of native rights
	5297-98			M. Thiel	Citizen	Construction of the pipeline; rules for protection
	5354-64			J. Binnema	Citizen	Moratorium on all northern development
	5388			M. Serediak	Citizen	Study of ecological impacts; protection of Indian reserve, Hay River
C-53	5441	May 14		Iwaasa	Citizen	Honor native rights; support the International Economic Order Conservation
	5462			Donovan	Citizen	No pipeline before land claims settled
	5492-94			Lasty	Citizen	Settle land claims; greater environmental concern by industry; conservation; final report must not be shelved; must not overlook violence as a resort to fight unwelcomed development
	5535			Gatzke	Citizen	Moratorium; settlement of land claims; native participation in the study of development; aboriginal rights
	5557-58			Willms	Citizen	Need to research for energy supplies; drive for conservation; curtail car speeds; attention should be given to the Inquiry
C-54	5610	May 17	EDM	Rathbone	Citizen	No development before settlement of land claims
	5597-99			Leadbeater		Pressing for a moratorium; native participation in development decision making
	5622-23			Johnson	Citizen	Public discussion of proposed developments, land claim settlement, native control over their economic development, conservation of environment and non-renewable resources
	5642-44			Swift Altimen	Citizen Citizen	Higher safety standards of pipelines, warning systems, check valves, contingency plans for oil spills, prosecution plans for violations
	5649-50			Kuhn	Citizen	Energy conservation, alternate sources
	5695-99			Leeson	Citizen	Ten year moratorium to provide scientific background material
	5738-39			Stewart	Citizen	Plan for native involvement, recognition of native land claims, protection of environment, ten year moratorium
	5747			Spencer	Citizen	Settle land claims; native interest in control and decision - making of the companies; alternative energy sources should be explored
C-55	5759-63	May 18		J. Paschen	Citizen	Reasons for delaying the pipeline
	5796-97			J. Wishart	Citizen	Moratorium, settlement of land claims, safeguards for environment

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C-55	5805-08	May 18	EDM	B. Mardiros	Citizen	Need for moratorium on construction
	5809-10			E. Powell	Citizen	Delay; study of impact on northerners; cities and municipalities, Alberta
	5821-33			M. Venne	Citizen	Suggestions, Native Outreach Program
	5848-53			B. Hall-Boyer	Citizen	Need for full-scale research, alternative energy sources; moratorium on development
	5855			O.A. Wiskell	Citizen	Moratorium on development
	5875			L. Mulhall	Citizen	Moratorium; regulation of domestic consumption, exports; environmental safeguards; native decision making
	5933			B. Jahrig	Citizen	Canadian energy policy; settlement of land claims
	5941-42			B. Farrell	Citizen	Settlement of land claims; energy conservation program; study of alternative development possibilities
	5948-49			T. Turner	Citizen	Moratorium; exploitation in responsible manner, in response to genuine need
	5955			K. Vandergrift	Citizen	10 year moratorium, justice and stewardship
	5991-92			D. Leadbeater	Citizen	Settlement of land claims; further technical, environmental studies
	5998-99			L. Bujold	Citizen	Full public accountability, Canadian politicians; publication of exact figures, energy reserves; conservation of depletable resources
	6005			M. Rigney	Citizen	Creation of Citizen' Board; moratorium on construction
C-56	6049			May 19	REG	D. Logan
--	6088-89	C. Stewart	Citizen			Negotiations, self-determination for native people
C-57	6152	May 20	WINN	B. Valentine	Citizen	Synod of Diocese of Ruperts Land supports moratorium on development
	6160-61			W. Norrie	Citizen	Support for pipeline from Winnipeg City Council
	6162-65			K. Johnson	Citizen	Land use plan for development and preservation; opposed to oil pipeline following gas pipeline; strict environmental standards, if pipeline
	6169			N. Coglan	Citizen	Gas pipeline construction supported
	6176			S. Kuehn	Citizen	Land claims settled; public control of pipeline; development of alternate energy sources; energy needs assessed; protection of environment
	6187-93			A. Lansdown	Citizen	Deferral of pipeline until gas is needed, recommended by Manitoba Environmental Council; land claims settled; land use plan; environmental code; effective monitoring
	6202			J. Mackenzie	Citizen	No industrial development until land claims are settled
	6212-17			J. Ryan	Citizen	Postponement of pipeline construction, reasons
	6222			J. Ryan		Ten - year moratorium
	6227			P. Young		Support for pipeline
	6241-42			M. Haave	Citizen	Land claims settled; environment, economic and social studies; energy conservation research; moratorium; review of Indian Act
	6247			A. Rathke	Citizen	Supports CAGPL's application because it is economically and environmentally more feasible
	6251			H. Spence	Citizen	Government must recognize native rights; no development until consultation with natives involved; does not want pipeline
	6269-71			B. Teixeira	Citizen	Land settlement prior to development; establishment of permanent body to investigate projects and report to Executive Council, to ensure public participation
C-58	6333	May 25	TO	B. Massman	Citizen	Moratorium to provide time for land claims settlement

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C-58	6363-64	May 25	TOR	J. Robinson	Citizen	Further measures to involve citizens in decision-making process; will not support approval for pipeline
C-59	6423	May 26		J. Meakes	Citizen	Need for immediate commencement of project
	6441			S. Acheson	Citizen	National energy policy, settlement of native land claims
	6446-47			M. Clarke	Citizen	Moratorium; settlement of land claims; environmental safeguards; study of exports, consumption
	6452			T. Green	Citizen	System of National Parks, I.B.P. and conservation areas
	6463-64			W. Kashton	Citizen	Settlement of land claims; preferential treatment of native people; economic development based on agreement with the native people
	6517			C. Godfrey	Citizen	Assessment, possibilities, alternative energy sources
	6524-25			M. Edwards	Citizen	Use of electronic sensors, protection of wildlife, in case of oil spills; committee to co-ordinate research, special wildlife protection tactics
	6529			G. Loeb	Citizen	Need for further study; settlement of land claims
	6541			M. Abramsky	Citizen	Just, equitable land claim settlement
	6558-67			M. Gunn G. Vandezande	Citizen Citizen	Moratorium on all proposals to transport oil, gas; native control, resource development; re-evaluation, national energy policy; public disclosure, future development
	6569-70			Q. Ferri	Citizen	Moratorium; emphasis on conversation
C-60	6631-32	May 27		S. Bank	Citizen	Declaration that pipeline will be built; provisions for native people, environment; consideration of national good
	6679-80			E. Welsh	Citizen	No construction until land claims settlement; native input, pace of development; conclusive studies, environmental impact; public ownership of the pipeline
	6693-95			R. Obonsawin	Citizen	Moratorium; settlement of land claims; environmental safeguards
	6729			W. Dunning	Citizen	Moratorium until recognition of native self-determination
	6777			M. Arbour	Citizen	No pipeline until land claim settlement; settlement with no extinguishment of native ownership of traditional lands
	6786			H. Mitchell	Citizen	Need for agency to oversee construction; no construction until technology has been tested
	6800-02			M. Wilkinson	Citizen	Canadians should provide 100% equity financing; government provision of shares for native people
	6804-05			Sister Michael	Citizen	Ten-year moratorium
	6814-15			H. Fronius	Citizen	Native people, determining voice in resource development; moratorium until completion of further studies
C-63	6988-89	June 1	MTL	Schiblie	Citizen	Ten year moratorium to settle land claims, study alternate gas delivery methods, formulate national energy policy, protect ecology
	7009-10			Hayes	Citizen	Ten year moratorium
	7025-26			Mountjoy	Citizen	Settlement of land claims; minimize social, environmental impact; energy conservation; energy policy
	7083-87			Beauregard	Citizen	Ten year moratorium
	7117-28			Lafond Hubert	Citizen Citizen	Ten year moratorium to settle land claims, native rights

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C-63	7138	June 1	MTL	Mukerie	Citizen	Should be talks to ensure survival of native culture
--	7151-53			Scyner	Citizen	Delay development till land claims settled; native decision-making; time to develop environmental safeguards; energy conservation; establish royalty and tax provisions to reduce profits by corporations, government; reduce exports of energy
	7184			Edwards	Citizen	Moratorium to examine large-scale energy developments
C-64	7209-30	June 3	OTT	Hatton	Citizen	Recommendations which should be met before development begins, call for a moratorium, conclusions reached by Project North
	7265-66			Mosquin	Citizen	Allocating areas for IBP ecological sites; government should establish a Canadian Arctic Wildlife Range; stricter environmental legislation
	7293			Bregha	Citizen	Settle land claims, environmental impact studies, national energy policy, energy conservation program
	7282			Brabozon	Citizen	Moratorium, to allow: claims to be settled without pressure, reduce energy consumption; Public Board of Inquiry
	7323			Harrison	Citizen	Need for moratorium until energy conservation program is developed, land claims settled
	7340-48			Van den Heuvel Seaborn	Citizen Citizen	Moratorium on large scale developments, to seek energy alternatives
C-65	7379-80	June 4		R. Voyer	Citizen	Open technology assessment, should have monitoring bodies to consult the people
	7401			L. Newell	Citizen	Need for full public investigation, potential of renewable energy
	7405			C.J. McGee	Citizen	Supporting early approval of Mackenzie Valley Pipeline project
	7447			J. Thompson	Citizen	Land claims, rights; decision - making, native input; self-determination
	7466-67			H.L. Pottle	Citizen	Moratorium to allow time for land claim settlements, research into alternative energy sources, environmental impact studies
	7504			D.B. McLay	Citizen	Time should be given for land claim settlements, environmental impact, energy studies
	7508-09			W. Wilkinson	Citizen	Ten year moratorium to allow long-term energy policy to evolve
	7510			A. Studd B. Studd	Citizen Citizen	Native participation in development, investigate available resources, preservation of northern wilderness, settle native land claims
	7585			G. Swinton	Citizen	Government should re-examine policies and priorities re energy research
C-66	7605-06	June 7	CH	D. Coffin	Citizen	Moratorium on northern development
	7611			M. Boyd	Citizen	Moratorium on all development until definition of native rights, settlement of land claims
	7632			G. Cannon	Citizen	10 year moratorium until study of alternative energy sources; emphasis on public funding, energy development
	7634			A. Campbell	Citizen	Recognition of native land claims; development of alternate sources of energy
	7644-45			Sister P. Dalton	Citizen	Moratorium until further studies, social and environmental impact
C-67	7704	June 8	HAL	R. Rohmer	Citizen	Consideration for tundra corridor route from Yukon to Delta, Churchill, connected with Polar Gas pipeline
--	7720-22			R. Gregoire	Citizen	Native environmental inspectors/specialists; establishment of a National Regulatory Council on Natural Resources; settlement of land claims, establishment of Management Training Program

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C-67	7766-67	June 8	HAL	S. Johnson	Citizen	Aboriginal rights; compensation for loss of way of life; native involvement in development; special status through British North America Act; protection of Indian lands
	7789			P. Brodie	Citizen	Moratorium of two years
	7811			D. Pilkey	Citizen	Establish inter-action between natives and development; fair land settlement; eliminate internal conflicts in DIAND; study implications of pipeline in broader context
157	24033-34	July 5	YK	Thompson	NWT IB/MA	Mineral ownership must be given to natives
159	24371-72	July 7		Boorkman	CAGPL	Careful stipulations, guidelines in delegation of law enforcement to private companies
	24384-99			D. Weinstein Boorkman	CAGPL	Need to avoid major population in-migration; need for advance planning by governments; location of hiring halls
	24416-17			Boorkman		Stop in-migration to prevent revenue short-falls, problems with providing services
	24432-35			Boorkman		Re funding for municipalities; need for preventative action
	24486-91			Boorkman		Mechanisms necessary to establish definition of "northern residents" for local hiring
	24521-22			Boorkman		Need to avoid union clauses giving access to communities
160	24756	July 8		Rushforth Asch	NWT IB/MA NWT IB/MA	Need for native people to determine what they want re employment
161	24925	July 12		Trusty	CAGPL	Spreads, need for native interpreters
163	25125-26	July 14		Hobart	CAGPL	Native people, need for sufficient resources in order to control portion of development
C-68	7879	July 16	FP	Malewski	Citizen	Laterals to the communities, whichever applicant approved
176	27388-89	Aug. 24	YK	Button	COPE/ITC	Freeze on development, land claims settled; residency clause for work and voting rights; local control
177	27536-37	Aug. 25		Purdy	NWT/AM	Law enforcement, more public input, local officers trained by RCMP, expand role of RCMP
178	27680-85	Aug. 26		Runge	MVPI	Housing, planning, development, funding, staff accommodation, social assistance, subsidies, maximum rents, construction incentives
180	27863	Sept 7		St. Eloi	MVPI	Pipeline should be built at earliest possible date
181	28154	Sept 8		Bayly Reimer	COPE/ITC MVPI	Agrees with proposal that pipeline wait until other energy projects underway, inferred from evidence
182	28248-54	Sept. 9		Forth	MHA/NWT	Recommendations to the government: settlement of land claims; moratorium of two years on pipeline construction, transfer of health services from Health and Welfare Canada to NWT government; provision of additional mental health services and facilities; establishment of Community Mental Health Association; improved mental health services in southern centres for pipeline workers; transients discouraged; training programmes in operations phase; law enforced by RCMP in and out of camps; creation of index guaranteed income; money to ensure essential services are delivered; recommendations to companies and contractors; consultation about camp sites and staging areas with communities; screening of undesirable southern employees; local hiring in construction phase; obligation to blue ticket southern employees; orientation programme for locally hired workers; rest and recreation periods
	28256			Clayton	MHA/NWT	Southern methods of rehabilitative services must not be transplanted in North
	28289			McCombs	MHA/NWT	Establishment of clear lines of authority for all phases of pipeline construction; community mental health legalization to ensure local control; health and social services information system; collaborative planning dialogue between government, communities and companies; settlement of land claims; training mental health paraprofessionals before pipeline impact

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184	28438-40	Sept.14	YK	Atcheson	COPE/ITC	Need for carefully planned development increased control by natives, settlement of land claims; need industry based on non-depleting resources
--	28479-81			Atcheson		Permanent commission to review affect on natives; sharing of resources with natives
186	28826-27	Sept.16		Basham	MVPI	Agency should be functional 1 year prior to construction
	28851			Basham		Native training, placement in those trades most consistent with potential long-term employment
	28863-71			Basham		Legislation - regulation of unions re: hire of apprentices; authority of Agency - manpower delivery system; creation of apprenticeship, training associated with each of the project elements; CLC - universal certification in NWT
	28887			Snowden	COPE/ITC	Need for new socio-economic indicators to evaluate local resource development projects
	28901-06			Snowden		Formation of a development corporation to define resource, market studies, direct project development; make Western Northlands program available to NWT; need for a comprehensive program of resource development
	28909-10			Currie	COPE/ITC	Development of Beaufort Sea fish resource, land management
	28924			Currie		Renewable resource development project
	28945-47			Snowden		Renewable resources should not be sacrificed for non-renewable resources; projects, tourism, development should be left to local decision-making
188	29121-23	Sept.21		Searle	MVPI	Conditions for construction; employment for northerners, compensation, protection for environment; involvement in decision-making process; representation on administrative authority; evolution of provincial government; settlement of native land claims
	29191			Mrs. Worl	COPE	Land claims must be settled before construction
189	29390	Sept.22		Robertson	NWT/AM	Grants in lieu of taxes assessed same as other taxes, paid upon receipt of municipal application, notice of lands transferred from Federal to Territorial government
--						
190	29625-27	Sept.23		Feilden	NWT/AM	To meet predicted population growth because of development: population forecasting, access to development capital, freedom from interest payments on impact growth capital
192	29983-84	Oct.4		Krauss	MVPI	Specifications and working documents for construction and operation of pipeline be available in native languages, must be understood by native people
193	30071-79	Oct.5		Templeton	EPB	Regional and site specific terms and conditions, Environmental Code, Atlas
	30086-108			Hernandez	EPB	EPB Atlas (1976) - overland traffic on thawed permafrost terrain, burning of slash, cut-grading techniques, vegetation - fire susceptibility, archaeology land use, aircraft flight corridors, Kendall Island Bird Sanctuary, caribou, raptors, fuel storage, kitchen waste disposal, IBP sites, pipeline looping
	30112-14			Doyle	EPB	Agency duties, manpower requirements
	30126-59			Doyle	EPB	Measures necessary to enact effective environmental inspection; definition of time periods, reviews for schedule analysis, construction segment design; six phased approach to setting up an agency; terms of reference of agency
	30192-205			Templeton		Two stage approach to approval of pipeline project; land use plan for Mackenzie Valley, Northern Yukon; pipeline routing siting of wharves, stockpile sites in delta
	30206-25			Templeton		Federal government should undertake initial land use plan; land claims, land use plan inseparable; energy corridor concept for Yukon coastal plain reject employment of corridor concept and land freeze in Mackenzie Valley

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194	30276-84	Oct. 6	YK	Butters	AM	Digby Hunt, Commissioner Hodgson, John Parker, Ewin Cotterill should be brought before the Inquiry; northerners must be told to talk to and attempt to understand each other; definition of powers of NWT Government needed
	30315			Doyle	EPB	Doyle report - formation of regulatory agency - requires input from 6 Federal Task Forces defining Agency mandate
	30336-44			Doyle		Agency should be responsible for regulatory monitoring, receptive to ecological monitoring; separate quarters, ensurance of logistic mobility for inspectors; no third party involvement in a regulatory Agency
	30378-80			Hemstock	CAGPL	No highway construction across Yukon coastal plain; minimum distance between oil, gas pipelines in Gibson Gap - 500 feet
196	30862-68	Oct. 12		Thompson	CARC	Design review process; authority to have full jurisdiction over entire construction process; authority to represent Federal government, Territorial government, native communities; third party contractor; need for ombudsman
199	31582-84	Oct. 15		Zemansky	COPE	Establishment of data base to characterize natural resources and potential impact; environmental protection must be assured
200	31615-31	Nov. 15		Scott	MVPI	Pipeline routing across northern Yukon; establishment of a Geotechnical Review Board; manpower delivery and employment service for people living in N.W.T., Yukon; regulatory agency - powers, division of authority within agency, functions it should engage in, monitoring, public interest intervention
	31641			Genest	CAGPL	Commissioner should avoid trying to write a manual, leave detailed specifications to an agency
	31656-66-A			Genest		Consequences - economic, social - of a delay or postponement of pipeline construction must be considered; development benefits
	31683-714			Genest		Manpower delivery system should be established within Federal and Territorial Government; government involvement in impact information centre unnecessary; compensation - responsibilities of development company, government: Territorial Government - share in project related revenues; activities of domicile firms; input from northerners should be through a Northern Advisory Board; should not attempt to manual for an agency; responsibilities of agency, Territorial Governments; nucleus of agency should be the NEB; pipeline routing
201	31740	Nov. 16		Marshall	CAGPL	Reject recommendations - Fairbanks Corridor made by other Participants
	31822-24			Gibbs	Foothills	Regulatory agency
	31835-52			Templeton	EPB	Regulatory agency, ombudsman, permittee performance bond; pipeline chilling termination point; CAGPL Ebutt Hills routing; environmental atlas; terms conditions detail
	31860-67			MacQuarrie	MHA	Pre-construction monotorium, construction schedule; NWT health services: training programs; law enforcement; incomes; siting of camps; screening of personnel, native orientation; regulatory agency
202	31891-906	Nov. 17		Bayly	COPE/ITC	DIAND mistrusted - should not dominate surveillance of pipeline; Mackenzie Valley Pipeline Authority; Alcan route - environmental, social research, community hearings should be conducted; permittee must post performance bond
--	31922-48			Bayly	COPE/ITC	Recommendations of Inquiry should seek to maximize autonomy, self-development of native peoples; inflationary impacts; employment recruitment; control of pipeline workers, transients; residence requirement for voting; local, territorial government responsibilities; assessment of relevant Federal, Territorial departments, programs; social, health programs; alcohol studies, programs; law enforcement; education; recreation; manpower delivery agency, union membership, counselling, work schedules; regional, community planning, impact centre; lead time, legislation review

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202	31985-200	Nov. 17	YK	Sigler	AM	In defining conditions report should employ a community by community approach; royalties, throughput tax; length of moratorium; community impact funding; impact centres; long-term residency for voting; regulatory authority; land use permits
	32036-39			Thompson	CARC	Hearings be convened for each new major project proposed for northern Canada; research in Beaufort Sea-Delta; alternatives be investigated
	32048-64			Anthony	CARC	Frost heave, subsurface drainage, limits of chilling; snow roads, gravel pads construction scheduling on North Slope; overhead crossings; revegetation; further studies; pipeline looping
203	32067	Nov. 18		Anthony		Alternative routing options must be evaluated
	32075-76			Anthony		Creation of International Wildlife Range prior to industrial activity after settlement of land claims; protected as wilderness area; excluded from pipeline activity; support for Alaska Highway Route
--	32078			Anthony	CARC	Creation of IBP sites before pipeline route approval
	32083-84 A			Anthony		Separate inquiry to investigate impact of oil pipeline; no explicit transportation corridor concept if gas, then oil along same route to be expected; no pipeline along Yukon North Slope; should consider Fairbanks corridor
	32106			Anthony		No pipeline across Mackenzie Delta; whale sanctuary in Delta, protection of reindeer and waterfowl
	32113-15			Anthony		Establishment of land use planning procedures before pipeline route selected; wilderness area north of Porcupine River; control of access roads following pipeline construction; access to area postponed until impact is controlled
	32116			Anthony		Single regulatory authority; creation of ombudsman
	32144-48			Veale	CYI	Wage and price guidelines during construction phase; ten-year residency rule; power to levy economic rent on development; in-migration
	32158-60			Veale		Construction workers kept in construction camps; workers flown south if labour dispute; community control of in-migration; prohibited from using Old Crow Airport
	32169-70			Veale		Hunting, trapping, fishing not permitted for construction workers; hunting ban on Dempster Highway community control over hunting access; ten-year residency requirement before hunting licenses issued; gun control measures; fishing ban to construction workers; ten-year residency requirement before sports fishing licenses issued; companies not allowed to utilize local fish as food; quotas on hunting, trapping and fishing; training precondition to construction job
--	32175-78			Veale	CYI	Old Crow land claims settled; no pipeline along interior route; no compromise for Old Crow self-determination; sensitivity of Old Crow Flats preserved; implementation of Arctic International Wildlife Range principles; non-completion of Dempster Highway; no route that crosses Porcupine River; caribou migration passed by construction; reduction of access roads from Dempster Highway; site specific studies conducted; snow road construction if interior route approved
	32184-85			Veale		No pipeline until Old Crow claims settled; no pipeline along prime route, interior route; implementation of Arctic International Wildlife Range principles; Dempster Highway detrimental to caribou; snow road construction if prime route; studies to determine snow road impact on environment
	32242			Bell	NWT IB/MA	No pipeline until Dene self-determination and survival is ensured
204	32297-98	Nov. 19		Erion	NWT/CC	Supports development of pipeline approval prior to August 1977; establishment of impact fund; active local small business

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46	6075-76	June 2	YK	Craik	EPB	Exhibit 135 assessment of impact
47	6165-66	June 3		Wilimovsky	EPB	Sport fishing - management
	6173			McT-Cowan	EPB	Shooting of birds for sport
	6179			McT-Cowan		Yukon coast valuable area, disturbance critical
	6201			McT-Cowan		Reduce population, protection from overhunting
	6231-33			Templeton	EPB	North has potential for out door recreation
	6269-71			McT-Cowan		Fragile wilderness resource to be protected
48	6351-53	June 4		Bliss	EPB	Increasing demands - access, development
C-7	636-37	June 24	F.F.	Naedzo	Citizen	Tourist lodges; Great Bear Lake
C-13	1254	July 10	F. McP.	J. Itsi	Citizen	Need recreation hall in Fort McPherson
	1264			J. Charlie	Citizen	Need for more recreation facilities
60	8553	Aug. 22	YK	Bouckhout Scott	Foothills MVPI	Proposed recreation facility near Foothills line crossing at Willowlake River
53	7240-42	Aug. 13	WH	Sprecker	CYI	Impact of camp workers in local areas, Alaska
C-23	2354	Aug. 14		C. Taylor	Citizen	Study of attitudes of Yukon people
78	11515-18	Oct.23	YK	Roed	CARC	Wood Buffalo National Park; edge of the shield route going into the park
83	12351	Nov. 7		Scott Hemstock	MVPI CAGPL	Some borrow sites used by people
86	12916-18	Nov. 13		Taylor Bouckhout	Foothills Foothills	Gravel pits as recreation areas
88	13303-05	Nov. 17		Bouckhout	Foothills	Conflict of land uses, pipeline versus recreation areas
90	13582	Nov. 19		Dabbs	CAGPL	Identification of sites in vegetation survey
99	15065-83	Dec. 9		Hemstock Banfield	CAGPL CAGPL	Preserving wilderness areas on North Slope, International Wildlife Range
	15328			Hayden	Foothills	Holmes Creek as sport fishery
103	15778	Dec.15		Steigenberger	CARC	Gravel removal guidelines
	15822-23			Stein	CARC	Utilization of Big Fish River - impact on Arctic char population
104	15949			Steigenberger		Fishing - present practice, need for regulations
105	15988-91	Dec.17		Stein	CARC	Increased pressure on fishing resources by sport fisheries
	16087-91			Walker Stein	CARC	Increase in fisheries re access; conflicts between commercial and sport fishing in south Yukon; attempts to resolve conflicts; effects of increased sport and commercial fishing on domestic fishing; legislation
	16113-14			Stein		Sport fishing policy re monitoring
	16253-54			Lent	CARC	Arctic Wildlife Range re wilderness hiking
107	16291	Jan.12		McT-Cowan	EPB	Kluane National Park reserach at Sheep Mt. - Dall Sheep
	16334-35			Wilimovsky	EPB	Recreation facilities for construction workers - fishing; game management, determination of recreational pressure
	16369-75			Wilimovsky		Sport and recreation fishing by construction and camp employees, conflict with domestic fishing; over-utilization of fish resource
108	16570-75	Jan. 13		Templeton Berger McT-Cowan Marshall	EPB EPB CAGPL	National Parks in Alberta, B.C. there is to be no industrial activity; Nahanni Park; land use planning; Banff, Jasper; gradual extinguishment of resources extraction and pre-existing rights; transportation facilities; traditional hunting rights; CN mainline through Jasper
109	16671-72	Jan. 14		Templeton		Recreation land use
110	16742	Jan. 15		Calef	CARC	Wood Buffalo National Park
C-24	2438	Aug. 23	NB	H. Deneron	Citizen	Nahanni National Park re: use by native people
	2444-46			F. Vitel H. Deneron	Citizen	Wish for a boundarychange re: Nahanni National Park; use of the Park
	2447-48			Berger H. Deneron		Establishment of Nahanni Park boundaries

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173	26996-98	Aug. 19	YK	Dusel	NWT/AM	Inuvik, existing facilities; will need first class facilities to satisfy southern Canadians
	27101-11			Dusel		Fort Simpson, facilities, demands will increase
	27023-25			Dusel		Hay River, present facilities, many natural recreational features, maintenance costs
174	27081-87	Aug. 20		Dusel		Dealt with capital facilities not development of leadership or maintenance of culture; need for facilities due to pipeline activity, change in recreation need patterns; must be community participation; Inuvik's lack of waterfront for recreation
181	28050	Sept 8		McCambly	MVPI	Rotating leave; provision of facilities at job site
	28230 -31			McRae Berger	MVPI	Work long hours to get long rest, visit family
	28050			McCambly	MVPI	Rotating leave; provision of facilities at jobsite
	28230-31			McRae Berger	MVPI	Working long hours to get long rest, visit family
186	28947	Sept.16		Snowden	COPE/ITC	Tourism development - control by natives
189	29384-85	Sept.22		Robertson	NWT/AM	Grants: recreation staff level; emphasis on co-ordination of facilities; cost of utilities; Recreation Director's salary; per capita recreation grant; local parks branch; assistance for construction of recreational facilities
	29432-51			Goulet Harris Berger	NWT/AM NWT/AM	Recreation services in NWT, history recent trends, present services; development of local leisure, range of local programs, community facilities; Fort Simpson's facilities and programs, problems, solutions, fear that recreation director will stifle community involvement
--	29454-61			Bayly Goulet Harris	COPE/ITC NWT/AM NWT/AM	Arctic Winter Games; lack of funds for facilities and programs; leadership in communities
	29462-65			Harris Goulet		Funding of facilities presently in Fort Simpson, maintenance of facilities
190	29669-71	Sept.23		Fergusson	NWT/AM	Hay River facilities: parks, playgrounds
193	30093	Oct.5		Hernandez	EPB	Yaya Lake recreation area should not be altered in favour of gravel removal activities
202	31940-41	Nov. 17		Bayly		Development of community recreation programs
204	32324	Nov. 19		Parker	NWT Govt.	Physical and cultural aspects

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46	6031-32	June 2	YK	Templeton	EPB	Berger's ruling on recommendations
	6057			Templeton		Project controls, inadequate environmental protection
	6079-80			Craik	EPB	Advisory role of EPB
	6083			Craik		EPB volumes 1 - 4
	6115-18			Adam	EPB	Need for authority to curtail or delay construction
47	6277	June 3		Berger		Arctic Gas wants one governmental authority
48	6315-27	June 4		Craik		Need for specific legislation, problem of enforcement
	6346-55			Bliss		Regulations re: land use
	6354-66			Craik		Environmental Code for government supervision
	6375-6422			Templeton		Specific recommendations of performance expected
	6423-41			Templeton		Need to set up agency, personnel, update code
49	6489-90	June 5		Horte	CAGPL	Determine most equitable method of allocating rates
	6599-6613			Horte		NEB logical body, must be single agency
50	6625-36	June 6		Horte		Public participation in regulatory bodies
C-16	1497	July 13	O.C.	Rowe	CAGPL	Canadian Standards Association, Code for Northern Pipelines
56	7822	Aug. 18	YK	Horte	CAGPL	Setting of gas rates; approval of construction

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C-24	2453-54	Aug. 23	NB	Father Mary	Citizen	Nahanni Park; facilities provided for government and families
	2464-65			Nahanni	NWT IB/MA	Nahanni National Park, attraction of tourists; poaching in the park
C-32	3065	Oct. 8	FR	McConnell	Citizen	Buffalo River recreation area, overcrowding
C-33	3104-05	Oct. 9	FS	Evans	Citizen	To combat social problems resulting from pipeline construction; sports, camping, fishing, hunting, arenas; Wood Buffalo National Park and Nahanni National Park
	3159			Mercredi	Citizen	Wood Buffalo National Park re clear entitlement
C-36	3477-79	Jan. 28	In	Stewart	Citizen	Tourist utilization of Alaska, Dempster Highways - impact on hunting, trapping grounds
116	17713	Jan. 24		Appleton	GPC-D-G	Fishing governed by Canadian Wildlife Service
117	17772-73	Jan. 26		Webb	GPC-D	Fishing in Yaya Lake, over-exploitation, control by regulations
136	20695-96	Mar. 26	YK	Peet	MVPI	Criteria for sports fishing developments
	20705			Peet		Information on sport fisheries
	20712-18			Peet		Regulations; protection; possible impact from construction; development of sports fishing
	20719-20			Peet		Problems, if pipeline built, for sports fishing
	20725-29			Peet		Conflict of sports fishing with domestic fisheries; regulation
	20749-51			Peet		Consultation with natives re setting up sports fishery
	20757-60			Peet		Sports fishing, consultation with local people; ministerial powers to intervene on behalf of natives; information needed before allowing sports fishing in an area
139	20181-84	Apr. 7		Stephen	MVPI	Reduction of hunting quotas due to industrial impact on wildlife
	21181			Heacock	MVPI	Flight restrictions in National Parks
148	22555-56	Apr. 29		Nahanni	NWT IB/MA	Hunting, trapping for sport as opposed to subsistence
C-55	5997	May 18	EDM	L. Bujold	Citizen	Tourism, effects on economy, local people
163	25252-53	July 14	YK	Trusty	CAGPL	CAGPL, consultation with communities, possible funding
164	25407-13	July 15		Hobart	CAGPL	No hunting, trapping, fishing on ROW, or people in camps
165	25626-27	July 19		Reesor Jensen	NWT/AM Foothills	Tourist promotion should be discouraged during construction phase
	25626-27			Reesor Burrell	Foothills	Upgrading existing facilities in communities by company, advice and dollars
C-72	8105	Aug. 11	RE	R. Whitford	Citizen	No facilities in Rae/Edzo, such as a pool and gym
171	26669-71	Aug. 17	YK	Dixon	MVPI	Alaska, question of inverse relationship between provision of facilities and liquor and drug use by young
172	26839-46	Aug. 18		Dittrich	COPE/ITC	Northern games, need to support native cultures and customary recreational needs
	26860-65			Kyllo	COPE/ITC	Benefits of recreation, reduces social and racial tensions; funds not available for native recreation staff training
	26869-77			Kyllo		Definition of recreation, leisure; traditional cultures do not separate recreation from existence, survival or work; funds allocated to sport; women, senior citizens, children often left out of programs
173	26925-31	Aug. 19		Dittrich		Project cost of Ingamo Hall, Inuvik, grants, money raised; little waterfront available to the public
	26934-38			Dittrich Kyllo		Transportation problems of reaching Dolomite Lake from Inuvik for day trippers without their own transportation; Winter Games and Arctic Winter Games
	26957			Kyllo		Different concepts between the Northern Games (organized with assistance from Dittrich) and the Arctic Winter Games (organized by the Government)

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58	8143-44	Aug. 20	YK	Blair	Foothills	Mention made of governmental conditions which must be complied to prior to Foothills permission to commence construction; eventual Foothills recommendations
	8196-97			Blair		Foothills view on powers of regulatory agencies
59	8303-05	Aug. 21		Blair		Provincial jurisdiction over transmission of gas through provincial, various governments and agencies control gas transmission; rates
53	7242-45	Aug. 13	WH	Sprecker	CYI	Control of alcohol, drugs, guns in camps, Alaska
54	7572-74	Aug. 14		Parker	CARC	Right-of-way application to land owners (Forest Service, State of Alaska); Native lands - Northway Tetlin Indian Reservation; land holding regulations
55	7626-27	Aug. 15		Morlan	CARC	Archaeological work in the Yukon completed under scientists and explorers' permits; witnesses appearing under the regulation of Yukon Territory; Yukon Territory has jurisdiction over all Yukon archaeological sites through the Archaeological Site regulations; Yukon Act
C-19	1838	Aug. 6	FGH	S. Kakfwl	Citizen	Inability of government to ensure pipeline codes
C-22	2249-53	Aug. 11	WH	T. Nairn	Citizen	National Building Code
61	8659	Sept. 15	YK	Mirosh	Foothills	Pressure in the pipe system based on station spacing design; increased pressure would occur were Foothills and the regulatory agencies satisfied as to the ability of the line
	8963-65			Scrimes	Foothills	Department of communications setting of tariffs and approving rate increases
63	9129	Sept. 17		Wetterberg	Foothills	Specifications for pipelines dictated by the Canada Standards Association and the National Energy Board
64	9254-57	Sept. 18		Hushion	Foothills	Operation increase from 69% to 80% test pressure if regulatory approval granted
65	9506-07	Sept. 19		Berger		Permit process through DIAND and NEB
67	9872-75	Sept. 23		Templeton	EPB	Discussion of the onus of proof incumbent upon applicants to gain regulatory approvals
	9893			Bauer	Foothills	Economic aspects of regulatory delays
68	10042	Sept. 24		Hushion	Foothills	Liaison with division & district Foothills offices in NWT
	10055-57			Hushion		IRF regulations re landings by fixed wing & helicopters
	10188			Templeton		Enforcement of restrictions; performance bonds; environmental inspectors
	10209-19			Templeton		Description of jurisdiction & scope of agency recommended by EPB
	10221-29			Templeton		Reporting structure of regulatory authority recommended by EPB; set up of environmental code
69	10231-32	Sept. 25		Templeton		Writing the terms and conditions of Phase 1; code book and atlas
70	10508-16	Sept. 26		Owen	MVPI	Land use permits; opening up of borrow pits; enforcement of permit; maintenance and repair
	10524			Owen		Permit required to remove gravel from river beds re: Kotaneelee, La Biche Rivers
	10541-43			Longlitz	MVPI	Land use permits; clause preventing disturbances; disturbance of vegetation, creation of erosion
	10557-63			Longlitz		Use of snow roads; start-up; shut down dates; snow cover and depth of frost penetration; impact land use regulations
75	11075	Oct. 20		Weeden	CARC	Responsibilities for land use planning in Alaska
	11111-12			Marshall Weeden	CAGPL	Imposed by Arctic Gas on its operations and maintenance personnel re: aircraft operation, noise and animal harassment; general regulations applicable to all aircraft operators re: government personnel etc.

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80	11891 11912	Nov. 4	YK	Minning Clark	CAGPL CAGPL	Compliance with DIAND re borrow Compliance with authorities re restoration of borrow sites
81	11995-12000 12053 12088-89	Nov. 5		Williams Minning Hemstock Williams	CAGPL CAGPL	Compliance with government strictures re explosives, toxic materials and fire prevention Intention to co-operate with authorities re borrow resource use Disposal of wastes - burial of materials in gravel pits; plan to be submitted of development of pits and use for waste disposal
82	12185 12204-05 12222-23 12245-56 12292-93	Nov. 6		Williams Williams McCart Hemstock Dabbs	CAGPL CAGPL	Jurisdiction over access roads to interior route after pipe laid Responsibility for closing off access road from MP443 to Whitehorse Recommendations re regulating fish populations Responsibility for infractions of pipeline agreement; environmental disruption eg. Pointed Mountain gas pipeline Department of Agriculture standards re soil moisture and erodibility
83	12357-58 12379-83 12462-63 12516	Nov. 7		Scott Minning Scott Williams Minning Scott McCart Scott Williams	MVPI MVPI CAGPL	Approval of quarries governmental responsibility Submission of CAGPL gravel requirements; government requirements if shortages Gravel mining, North Slope rivers Disposal sites for excess spoil material
85	12683 12724-25	Nov. 12		Hemstock Scott Williams	CAGPL	DOE guidelines re liquid storage near water Territorial Water Board, environmental impact assessment, river crossings
85A	12793			Marshall	CAGPL	Clean Air Act, nitrogen dioxide concentrations
86	12803-04 12873-79 12982-87 13035	Nov. 13		Scott Lawrence Lawrence Berger	Foothills Foothills	Territorial Waters Board, river crossings Water supply, waste disposal, EPS DOE, chlorine in sewage, sewage disposal Unacceptable accident rates, using artificial lighting, construction
88	13211-19 13271 13278	Nov. 17		Bouckhout Reeves Ryder	Foothills Foothills MVPI	Consultation, preparing environmental manuals; inspection team powers Reporting archaeological discoveries Reporting archaeological discoveries to agencies
89	13569-70	Nov. 18		Dabbs	CAGPL	Licensing of seeds by Department of Agriculture
90	13589	Nov. 19		Marshall		Regulation of spring snow road use
91	13822-24	Nov. 20		Berger		Alaskan Canadian government environmental inspectors, powers
94	14209-44 14327-28	Dec. 2		Environmental Panel Jakimchuk	CAGPL CAGPL	Sensitive environmental areas; monitoring; location of compressor stations; Guidelines for Northern Pipelines Dempster Highway, caribou migration routes; uncontrolled hunting; native hunting rights; uncontrolled access; Wildlife management policies
95	14430-38 14472-74 14507-21	Dec. 3		Marshall Berger Banfield Hemstock Bayly Hemstock Berger	CAGPL CAGPL CAGPL COPE/ITC	Work stoppages, delays; mitigative measures; government ability to regulate and monitor the project Altitude of flights over the North Slope; enforcement Fishing and hunting regulations; discussions with CWS; aircraft flights - frequency, altitude; Ministry of Transport; civil liberties

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96	14628 14684-85	Dec. 4	YK	Jakimchuk Jakimchuk	CAGPL	Specific measures left for final design stage Regulations re access to caribou herds; Alyeska experiences
97	14749-71 14795-14820	Dec. 5		Berger Scott Marshall Hollingworth Bayly Templeton Bell Templeton Gunn McCart Jakimchuk	MVPI CAGPL Foothills EPB NWT IB/MA CAGPL CAGPL	Terms and conditions, recommendations from expert witnesses binding on applicants Enforcement of recommendations of witnesses
99	15147-77	Dec. 9		Environmental Panel	Foothills	Bodies regulating construction of pipeline
100	15192-94	Dec. 10		Bouchhout	Foothills	Working with agencies in reaction to mitigation situations
102	15221-22 15575-79 15616-60	Dec. 12		Hayden Peterson Novakowski	Foothills CARC CARC	Federal Fisheries Service, dead sampling restrictions Legislation could simplify regulatory control; regulation by one "super agency"; applicants' statements must be compared to what is in minds of regulators Special regulations needed for pipeline construction; Territorial Land Use Regulations; DOE migratory waterfowl regulations; International Polar Bear Agreement; Convention on International Trade in Endangered Species of Wild Fauna and Flora; NWT Game Ordinance; Yukon Territory Game Ordinance
103	15823	Dec. 15		Stein	CARC	RE: lack of fishing regulations of Big Fish River; construction timing
104	15969-70	Dec. 16		Bayly Walker	COPE/ITC CARC	Fish resource use regulation on Yukon North Slope re: permanent road construction
105	16086	Dec. 17		Steigenberger	CARC	Standards, operating guidelines re: silt levels
106	16175 16255-64	Dec. 18		Lent Lent	CARC CARC	Identification badge not required by sub-contractor JAFWAT re: prevention of terrain damage to oil field; processing, gathering and trunk pipeline regulated by same authority; falsified pipeline welds; stipulations re: feeding, attraction of wildlife
107	16318-39 163669-88 16422	Jan. 12		Craik Wilimovsky Templeton EPB Environmental Panel McTaggart Cowan	EPB EPB EPB EPB	Creation of a pipeline authority, responsibilities re: research, environmental assessment and protection, coordination of existing laws and legislation, Federal departments Control of employees; fishing - recreation, as a resource; camp and construction employees - fishing regulations; domestic fisheries; research; Pipeline Authority, government intervention; environmental monitoring, Arctic Institute of North America, Fisheries Act, Inland Waters Act; Prairie Farm Rehabilitation Act; Garrison Project Without regulations, or poor enforcement, the caribou herd would be seriously depleted
108	16453-56 16470 16474-81 16556-57	Jan. 13		McTaggart Cowan Templeton Templeton Templeton	 EPB EPB	Enforcement of regulations - aircraft overflight; posting of a surety bond, NEB Code suggests training of construction workers re: environmental impact awareness; environmental inspectors Agency or authority with power to order a shut-down of pipeline construction; organization of inspectors, head office managers; agency's environmentalists versus the pipeline's environmentalists; performance of construction Role of an agency in regional land use planning; role of government

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109	16628-29	Jan.14	YK	McTaggart Cowan	EPB	Good regulations depend on good research; development of a game management plan, enforcement
	16686-90			Berger Templeton Wilimovsky	EPB EPB	Regulations laid down, commission; union and labour interests; environmental standards, mitigation
	16701-08			Gourdeau Templeton Berger Wilimovsky	EPB	Performance code, standards, aircraft traffic restrictions - timing, frequency, user; fish
	16710-14			Templeton Wilimovsky		Fish management; noise - compressor station, specifications, code; aircraft overflights
110	16860-62	Jan.15		Berger Calef Lent	CARC CARC	Regulation of caribou hunting, native and non-native kill
111	16949-55	Jan.16		Lent Calef		Agencies in Alaska for Alyeska line, recommendations for Canada
	16969-75			Davies	MVPI	Federal, Ontario provincial environmental impact assessment and review processes
C-24	2446-48	Aug. 23	NB	H. Deneron	Citizen	Land use permits; consultation with communities re: Nahanni Park, Cadillac Mines
	2456			J. Antoine	Citizen	Land use permits; no consultation with communities
	2463-65			Nahanni	NWT IB/MA	Land use permits re: Cadillac Mines; exploration permit
C-34	3323-25	Oct.16	YK	Humphreys	Citizen	Set of rules, regulations, guidelines needed; government responsibility reinforcement
C-39	3707	Feb.18	In	Robertson	Citizen	Companies required to pay off-site charge to offset recreational facilities of community
	3728			Hill	Citizen	Improvements in NWT truck and transport licencing; regulations to determine local licencing arrangements
114	17431	Jan.22		Faulkner	GPC-D-S	Niglintgak gas well movement restricted by government regulations
115	17495	Jan.23		Faulkner		Cutting timber for pilings, environmental concerns up to contractors and agencies
	17588			Berger Scott	GPC-D-G	Parsons Lake gas field, present construction schedule relies on approval of gas pipeline in fall of 1976
116	17646	Jan.24		Rempel	GPC-D-I	Feedback with regulatory agencies established because of immature standards and guidelines for environmental impacts
	17653			Rempel		Regulatory measures needed to prevent over-exploitation of fisheries
	17713			Appleton	GPC-D-G	Fishing regulations in plant facility area
117	17763	Jan.26		Wopnford	GPC-D-S	Flying restrictions into sanctuary, altitude and track of helicopter
	17772-73			Webb	GPC-D	Fishing in Yaya Lake, over-exploitation, regulatory controls
	17779-90			Rempel Wopnford Appleton		Aircraft control, height constraint, land use regulations, enforcement, infractions; flight pathways; regulations in bird sanctuary, Canadian wildlife service constraints
119	18180-97	Jan.28		Shaw	COPE	Regulation of hydrocarbon exploration, drilling and production by Energy Resources Conservation Board of Alberta; criteria for disposal well drilling and disposal in Alberta; conditions to prevent blow-outs; bentonitic clay
--						
120	18302-05	Jan.29		Pimlott	COPE	Enforcement of anti-spill regulations; relationship between legislation and regulation
122	18693	Feb.11		Stein	COPE/ITC	Need for regulatory measures re game fishing in Delta lakes
127	19317	Feb.17		Longlitz	COPE	Territorial Land Use Regulations
	19362-65			Longlitz		Territorial Land Use Regulations, review period for application
	19420-22			Monaghan	COPE	Enforcement of flight level restrictions; cumulative impact of land use regulations
	19470-75			Trudeau	COPE	Management/enforcement role of N.W.T. Fisheries and Marine Service; violations of fisheries regulations, permits, penalties

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128	19483-88	Feb.18	IN	Trudeau	COPE	Enforcement staff, standards, number on staff, training
	19491-94			Trudeau		Enforcement officer, effective control of erosion, stream blockage, fish damage, fuel spills and waste disposal
	19505-21			Trudeau		Depth requirement for underwater blasting; regulations, specific problems; permit conditions not met; "Pollution Regulation", spills; regulation of fishing
129	19681-82	Feb.19		Speller Evans	MVPI CARC	Enforcement recommendations for R.C.M.P., Canadian Wildlife Service, Territorial Game Branch, Fisheries and Marine Service, fishing and hunting regulations:
131	19882	Mar.17	YK	Purcell	CAGPL	Pipeline Construction Code no longer requires block valves
132	20040-41	Mar.18		Purcell		Block valves no longer required
133	20166-68	Mar.23		Jakimchuk	CAGPL	Overflight regulations by MOT, Cross-Delta route
134	20216	Mar.24		Jakimchuk		Game management rules should be enforced
135	20540-42	Mar.25		Hemstock	CAGPL	Regulation of air traffic in Delta
	20583			Sprague	MVPI	Regulations for protecting natural waters; implimentation problems
	20591-600			Sprague		Regulations, standards for siltation, petroleum contamination, sewage, temperature increase, methanol in water
136	20640-44			Sprague		Regulation of construction, industry to reduce impact of effluents on fish; development of standards, regulations
	20655			Sprague		Use of biological standard for siltation in streams
	20660-64			Sprague		Regulating water quality; Ontario construction project; location of effluent discharge; special regulations needed for pipeline
	20670-75			Sprague		Benthic diversity index change as silt measure; oil concentrations, dissolved oxygen in water; setting up water quality regulations.
	20678			Sprague		Setting water quality standards, regulations before construction; sediment and turbidity tests
	20692-96	Mar. 26		Peet	MVPI	Responsibilities of Fisheries division; recommendations for dealing with aspects of pipeline construction affecting fisheries
	20705-18			Peet	MVPI	Commercial fishing regulations
	20719			Peet		Regulation of sports fishing
	20725-30			Peet		Regulation of sports fishing for construction workers; conflicts of sports, commercial with domestic fishing
	20732-37			Peet		Regulation of fisheries
	20743-50			Peet		Regulation of fisheries
	20757-58			Peet		Regulation of sports fishing
	20764-65			Peet		Size of fisheries enforcement force required
138	20954	Apr. 6		Norton	MVPI	Habitat Protection Section of Alaska Department of Fish and Games
139	21113-29	Apr. 7		Simmons Norton	MVPI	Establishment of a Mackenzie Valley Authority for surveillance, monitoring of pipeline construction
	21180-202			Heacock	MVPI	Flight restrictions re: National Parks, flight altitude frequency for aircraft, helicopters, 2,000 fast-flight regulation
140	21323-27	Apr. 8		Usher	COPE/ITC	Absence of an effective regulatory body to monitor oil exploration development
141	21477-78	Apr. 9		Usher		Failure of petroleum company to obey Territorial Land Use Regulations on Banks Island
C-50	4936-50	May 11	VAN	Moyes	Citizen	West Coast Environmental Law Association, could act as public watchdog during construction phase

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C-53	5567-69	May 14	CAL	Blair	Foothills	Regulatory, judicial and Parliamentary review is not likely to delay time of first flow of gas from north
C-59	6483	May 26	TOR	D. Mackay	Citizen	Need for independent, competent inspectorate
C-60	6636	May 27		R. Snyder	Citizen	Canadian Standards Association, construction standards
	6786-87			H. Mitchell	Citizen	Need for agency to oversee construction, throughput, tariffs
C-65	7546	June 4	OTT	S. Loewan	Citizen	Need for authorities to ensure protection of environment, social concerns if pipeline built
159	24522	July 7	YK	Trusty	CAGPL	Contractors, obliged to obey any stipulations laid down
162	25067-68	July 13		Trusty		Territorial regulations, potential use of community hospital facilities; stipulations re necessary standards, camps
165	25633-34	July 19		Reesor MacLeod	NWT/AM Foothills	Territorial regulations on amount of gravel taken from borrow pits
175	27271-72	Aug. 23		Hinchey	NWT/AM	Recommended establishment of a Mackenzie Valley Pipeline authority, organization, headquarters; Mackenzie Valley Business Association, responsibilities
	27330-33			Hinchey Berger		Mackenzie Valley pipeline authority, policy and policing function; single or multiple agency enforcement; structure of agency, location, governed from within NWT
182	28254	Sept 9		Forth	MHA/NWT	Recommended that Government establish agency to ensure agreement is honoured
--	28289-90			McCombs	MHA/NWT	Recommended that clear line of authority for all pipeline construction be established
	28254			Forth	MHA/NWT	Recommended that Government establish agency to ensure agreement is honoured
	28289-90			McCombs	MHA/NWT	Recommended that clear lines of authority for all pipeline construction be established
186	28865-68	Sept.16		Basham	MVPI	Authority of Agency - manpower delivery system
188	29138-39	Sept.21		Searle	MVPI	Creation of a Mackenzie Valley Pipeline Authority
191	29835-37	Sept.24		Hagglund	MVPI	Resupply to communities, legislation to ensure priority; community involvement on regulatory agency
193	30110-14	Oct.5		Doyle	EPB	Agency duties must include preparation of regulatory documentation in advance of company submissions, conduct preliminary and final design reviews, put a team of trained inspectors in the field; manpower requirements
	30126-59			Doyle		Definition of time periods, reviews for schedule analysis; construction segment design; six-phased approach to setting up an agency, manpower requirements and qualifications; terms of reference of Agency
	30226-34			Doyle		Agency definition, difficulties in delineation of terms of reference
	30235-40			Doyle Templeton	EPB	Measures to regulate pipeline personnel performance bonds, penalties; Agency decision-making - scheduling
	30248-55			Doyle		Relationship between Agency and terms and conditions submitted by Inquiry; NEB not included in Agency study
194	30297-26	Oct. 6		Doyle	EPB	Time requirements for Agency formation, design reviews, definition of regulations; qualifications of Agency staff; inspection staff; review period - wharves, stockpile sites
	30330-31			Doyle		Regulation of social matters by Agency - not defined
	30389-90			Hemstock	CAGPL	Monitoring should be conducted by confining department of government
196	30774-79	Oct. 12		Skinnarland	CARC	Implementation of Alaska Pipeline stipulations by U.S. Federal Government; formation of single authority; working relationship between Alaska Pipeline and third party contractor

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196	30781-89	Oct. 12	YK	Skinnarland	CARC	Procedures for implementation of stipulations, Mackenzie Valley pipeline; use of existing agencies; DIAND, NEB, DOE, DOT, DPW; suggests that NEB be assigned responsibility
	30790-807			Skinnarland		Concept of single authority with mandate based on NEB Gas Pipeline Regulations: established, staffing, funding; implementation procedures: design review, notice to proceed, field surveillance, changed conditions, appeals; functions of advisory board, meetings, reports, procedures, funding
	30858-60			Thompson	CARC	Single authority, third party contractor, independent of NEB with structure that integrates NEB's supervising function
	30863-68			Thompson		Authority to represent Federal, Territorial governments, native communities; authorizing officer, third party contractor, liaison with landowners; ombudsman
--	30899-900A			Bayly Thompson	COPE/ITC	Integration of functions by Water Boards into Mackenzie Valley Authority
	30914-26			Skinnarland Thompson	CARC CARC	Special authority proposed by DINA; Skinnarland supports authority based on Gas Pipeline Regulations; difference between authorized officer's mandate and authority; Thompson does not believe NEB should manage authority
	30928-70			Scott Skinnarland Thompson	MVPI	Options for authority proposed in discussion paper by working group on government operations; CARC's study on history of authorities, Tennessee Valley Authority; deciding type of authority, role of ombudsman
197	31036-45	Oct. 13		Norton	MVPI	Failure of JFWAT to regulate construction of Alyeska Pipeline; lack of early mobilization of JFWAT; JFWAT's dealings with existing agencies, contractors; dangers of single monolithic agency control
	31053-57			Norton		Staffing of JFWAT; envisioned functions of joint team
	31109-15			Rogol Veale Scott	MVPI CYI MVPI	Possibilities of single agency to monitor and conduct surveillance of pipeline construction and operation; difficulty of fitting public interest into process; operation of administrative agency
	31130-38			Norton	MVPI	Surveillance of stream crossings, rehabilitation and revegetation of right-of-way and ancillary facilities, oil spills, locations and maintenance of material and disposal sites; quality control; recommendation to improve in-house surveillance
	31140-46			Bayly Norton	COPE/ITC	Legal counsel for monitoring agency available; problems training enforcement personnel; Alyeska responsible for contractors
199	31502-15	Oct. 15		Beakhust	COPE	Two kinds of "regulation"; industry regulation and environmental regulation; Water Transport Committee; Territorial Land Use Regulations; Canada Oil and Gas Land Regulations; Land Use Advisory Committee
--	31515-45			Beakhust	COPE	Delta Land Use Committee; problems with regulations; inspection reports; poor communication between operators and inspectors; role of DIAND in regulatory system; criteria for effective regulations; recommendations for administration and enforcement of regulations
	31592-95			Zemansky	COPE	Must be authority to prevent recurrence of Galbraith oil spill and to clean-up initial ones
	31600-05			Scott Zemansky Beakhust	MVPI	Problems associated with regulatory agency; proposed "bureau of consumer advocacy"; formation of citizens' surveillance group; surveillance by land owners (native people)
200	31627-31	Nov. 15		Scott		Agency - powers, division of authority within agency, functions it should engage in, monitoring, public interest intervention
	31683-88			Genest		Conflicting statements in Commission Counsel Report re: reducing size of bureaucracy; formation of an agency government involvement in impact information centre

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200	31699-707	Nov. 15	YK	Genest	CAGPL	Input from northerners should be through a Northern Advisory Board; Commissioner should not write manual for an agency; division of monitoring responsibilities between agency - Territorial Governments, Northern Advisory Board, Geotechnical Review Board; nucleus of agency should be NEB
201	31821-24	Nov. 16		Gibbs	Foothills	Agency should be NEB, Geotechnical Review Board, sociological matters
	31838-41			Templeton	EPB	Single regulatory agency, staff, environmental auditor versus ombudsman
202	31891-96	Nov. 17		Bayly	COPE/ITC	DIAND should not dominate surveillance of pipeline project; Mackenzie Valley Pipeline Authority
	31903-08			Bayly		Permittee must post a performance bond determined by proposed Authority
	31941-42			Bayly		Manpower delivery agency
	31978			Bayly		NEB actions on Manitoba Hydro Project
203	32115-16	Nov. 18		Anthony	CARC	Regulatory functions performed by single authority; creation of ombudsman
	32173			Veale	CYI	Funds to communities for monitoring agency
	32197-99			Veale		Establishment of single monitoring agency, ombudsman; performance bonds; financing, timing; NEB not appropriate agency to monitor development
204	32291-93	Nov. 19		Ballem	GPC-D	Monolithic structure is a larger bureaucratic system, financed by industry
	32309-12			Parker	NWT Govt.	Recognizes need for authority but in not in best interest of NWT people as proposed

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XVI	1745-47	Mar.12		Genest	CAGPL	CAGPL, Drainage and Erosion Control; Frost Effects; Supplemental Hydrology
	1817-18			Anthony	CARC	E-S P Reports, CAGPL documents
	1832			Marshall	CAGPL	Terrain classification material for routes other than prime and interior
	1842-43			Anthony		Cross-delta route, environmental data
XVII	1960-62	Mar.13		Bayly	COPE/ITC	Evaluation of River Crossing Sites, R.M. Hardy
	1970-72			Bayly		EPB, Environmental Impact Assessment V.4
	1975-77			Bayly		Gravel & Bedrock Borrow Prospects, Nov.72, Mollard
	1991-92			Bayly		EPB Report V.4
	1993-94			Bayly		Water Availability, T. Blench & Associates
	1997-98			Bayly		Great Bear River Hydro Project, Crippen Associates
XVIII	2027-29	Mar.14		Bayly		Water Bottom Survey, Kenting
	2040-42			Bayly Watson	CAGPL	DPW Mackenzie Highway alignment sheets
	2081			Scott	MVPI	EPB document list, transcript of April 1973 meeting
XIX	2133-36	Mar.17		Genest		Drainage & Erosion Control; Frost Effects; Supplemental Hydrology; Foundation Design; Reconnaissance of the Alyeska Pipeline Availability of Report
	2193-94			Clark	CAGPL	Field, office & test site studies carried out for CAGPL
	2219-24			Clark Hardy Morgenstern	CAGPL CAGPL	Field programs - drilling; thermal; river; ice break-up; Chick Lake; environmental hydrologic - Expenditures on programs
XX	2341	Mar.18		Slusarchuk	CAGPL	Calgary test facility frost heave study: Frost Effect Study, May 1974; Results from Frost Effect Study, March 1975
	2362-63			Morgenstern		Report on Slope Stability and Permafrost Terrain
	2366-71			Clark		Slope Stability in Permafrost Terrain, Dec. 1974
	2371			Clark		Pufahl, et al; Observations on Recent Cuts in Permafrost, 1974

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	2399			Clark	CAGPL	Water crossings, Blench Report
XXI	2412-14	Mar.19		Scott Anthony	MVPI CARC	Availability of CAGPL reports; availability of federal government reports
	2469			Cooper	CAGPL	Design of Pipeline Crossings at Braided Rivers, T. Blench & Ass. 1975; River Crossing Design, NES, 1974; 1974 River Break up and Ice Study,.,, T. Blench ... 1974 Data Report & Engineering Report Breakup observations on Northern Rivers, T. Blench ... 1973 Criteria for River Engineering ... T. Blench ... 1973 River Engineering Aspects ... T. Blench ... 1973
	2474-75			Clark		Convective Model for Sub-Surface Flow Around a Chilled Pipe, Bettelle, 1974
	2480			Clark		Drainage & Erosion Control Measures, Description & Proposed Design Principles
	2519-24			Mercredi	Citizen	Government sponsored research & reports, financing
XXII	2623-24	Mar.20		Clark		Biological Report Series, Fish
	2643-46			Clark		River Break Up and Ice Study, 1974
	2659			Hollingshead	CAGPL	Preliminary study of overhead crossings
XXIII	2671	Mar.21		Anthony		1974 River Break up and Ice Study then filed as Exhibit 82
	2679-80			Clark		Pipeline Related Borrow Studies
	2695-96			Templeton	EPB	Interdisciplinary studies
	2734-35			Clark		Movement of sub-surface water, Chick Lake
	2743-44			Clark Hollingshead		Government report, Pointed Mountain Line CAGPL Report
	2761-62			Genest	CAGPL	Cross Delta Route Alternative
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	2764			Lane	COPE/ITC	CAGPL reports of June 1974, released March 1975
	2866-71			Clark		Environmental consultants - design manual
XXIV-A	2897-2902 2944			Scott	MVPI	Casagrande - calculated risk NES report July, 1974 - dual crossings
XXV	2948-49	Apr.8		Genest	CAGPL	Pointed Mountain line, report 104
	2964			Scott		Blench Associates, July, 1974 - scour problem
	2975-78			Hardy	CAGPL	Dual river crossings, July, 1974; suspended river crossings
	2984-85 3006-07 3008-10			Scott		Preliminary design, August, 1974 Crossings failure due to environmental damage Pointed Mountain, February, 1975 - reparation of erosion
	3025-30			Cooper	CAGPL	Neil - Guide to Bridge Hydraulics
	3031-32			Hollingshead	CAGPL	Preliminary design, August, 1974
	3032-34			Morgenstern	CAGPL	Slope stability, May, 1973
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	3072-74			Scott		Shawinigan Engineering Co. - design flood estimates
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	3186-93			Scott		Frost effects study P. 56
	3201-03			Scott		McKay - Segregated ground ice
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	3237			Slusarchuk		Results from frost effect study
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	3276			Slusarchuk		Report on driving gradients, continuous/discontinuous permafrost, (to be prepared)

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	3284			Williams	CAGPL	Klohn - Leonoff Report, drill hole information
	3292			Scott	MVPI	Arctic Test Facility, Mountain River, N.W.T. P.10-2
	3296-3305			Williams		Dr. Mollard, selection of test site location, terrain types, Sans Sault escarpment, sub-surface conditions, Mountain River area, R.M.Hardy and Associates
	3298			Williams		Dr. Mollard, report for Mackenzie Valley Oil Pipeline, Northwest project
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	3348			Williams		Engineering, botany reports, Sans Sault reports
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	3373			Williams		Biological report series
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	3394-98			Slusarchuk	CAGPL	Applications of Geothermal Analysis, N.E.S.
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	3433			McRoberts		Proceedings of the Symposium on Cold Region Engineering, George Knight
XXVIII	3446-51	Apr. 11		Scott	MVPI	Battell report, October, 1974
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	3466			Clark	CAGPL	Report on icings, river crossings, pipeline integrity (to be prepared)
	3466			Scott		Environmental Protection Board - Volume IV
	3471			Scott		Report by Checko Teoh, 1960
	3476-80			Scott		Report for National Research Council Workshop Seminar on permafrost hydrology, 1974 - Van Everdingen
	3480-81			Clark		Report on pingoes (to be prepared)
	3482			Clark		Reports on literature available on insulated pipes in frozen ground
	3488			Hardy	CAGPL	Charlie Neal, books on culverts, culvert design
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	3494			Scott		Water Availability Study, May, 1973
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XXIX	3565	Apr.14		Marshall	CAGPL	Sub-surface flow around chilled pipe, Battell, 1974
	3568			Scott		Canadian Geotechnical Journal, November, 1974
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	3597			Scott		N.R.C. Technical Memo - ground ice designations
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	3941			Koskimaki	CAGPL	Preliminary Station Design Report
	3953-60			Anthony	CARC	"Interprovincial Calls 7 Pipeline Breaks Random and Infrequent", Globe and Mail, April 10, 1975
	3982-83			Anthony		CN/CP, Logistics Planning, Gas Pipeline
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XXXII	4113-14	Apr. 18		Purcell	CAGPL	Alternative power sources, electricity - Great Bear Dam
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	7010			Banfield		Water supplies available in winter along prime route Aquatic Environments
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	7426-27			Geist		Biological Report Series, Vol. 7; Caribou herds in Alaska
	7440			Banfield	CAGPL	EPB report as used by Dr. McTaggart - Cowen
	7458-61			Weedon	CARC	Regional atlas of Alaska; Joint Federal State Land Use Planning Commission in Alaska; map showing the major ecosystems of Alaska; Land Status map; Environmental Assessment of the proposed Beaufort Sea Near Shore Petroleum Leasing Report

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C-22	2238	Aug. 11	WH	A. Wright	Citizen	Engineering study Alaska Highway by D.P.W., 1964
	2241			D. Lloyd	Citizen	F.F. Slaney Revegetation studies of Mackenzie Highway and Arctic Railroad
	2280-81			R. McRobb	Citizen	Request for funding to study gas supply to Whitehorse
C-23	2353-54	Aug. 14		C. Taylor	Citizen	Yukon Conservation Society Study re: attitudes to development and recreation
	2366			C. Taylor		People's Land Committee Community Workshops
	2374			R. Genelli	Citizen	NCPC - Sigma consultants' report on dams in the Yukon
	2384			B. Cooper	Citizen	Club of Rome report on energy situation
61	8676	Sept. 15	YK	Lazerte Marshall	Foothills CAGPL	Internal Foothills report pertaining to the location of compressor station number one; Parsons Lake lateral junction
62	8770	Sept. 16		Mirosh	Foothills	Brooker model; interim reports made to Foothills
	8772			Mirosh		National Research Council, CAGSL have done work on frost anchors
	8786-86b			Marshall Gibbs	CAGPL Foothills	Consultants' report; stress design
	8798-8808			Gibbs Berger Marshall		Submission of tentative reports to the Inquiry; alternative routes; Prudhoe Bay Supply Line
	8818			Mirosh		Foothills general reports as to meetings with DPW as to use of existing bridges; haul load which would be placed on existing structures
	8820	Sept. 16		Walker	Foothills	Consultants; river crossings; final design stage
	8934			Scrimmes	Foothills	Communication research
63	9008	Sept. 17		Beer	Foothills	Ground level concentrations from compressor station exhaust
	9030-31			Lazerte	Foothills	Detailed sound surveys on compressor noise in Alberta; tests conducted on stations with similar horsepower and condensing types
	9031-32			Beer		TransCanada Pipeline Co-report to Canadian Gas Association re: noise level at emergency station blow downs
	9043-44			Bayly	COPE/ITC	Waste facilities at Camps, Grange report for DOE
	9074			Marshall	CAGPL	Unsure of progress of environmental studies of Cross Delta route
	9085			Lazerte		Foothills' consultant report on Mackenzie Valley sewage treatment
	9087			Mirosh	Foothills	Associated Engineering Services Ltd., report on disposal of treated effluent in swampland
	9101			Beer		Foothills Will study distance sound is carried from each compressor station
	9103			Beer		American Environmental Impact Statement - Alaska Arctic Gas application section on noise
	9109	Sept. 17		Beer	Foothills	Areas to be identified as noise sensitive for environmental or social reasons
	9157-71			Hushion	Foothills	Batelle studies of design criteria for arresting ductile fractures
	9161			Hushion		U.S. Steel report for American Iron and Steel Institute - tests in crack arrestors
	9165			Wetterberg	Foothills	Burst tests on steel of specifications for north
	9167-71			Wetterberg		Fracture Initiation Propagation and Arrest by W.A. Waxey, Nov. 1974

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64	9207-08	Sept.18	YK	Wetterberg	Foothills	Battelle report. Fracture Initiation Propagation and Arrest
	9240			Hushion		AGTL tests on coatings; data available after winter 1976
	9300			Spafford	Foothills	Stream flow characteristics, sediment loads studied in Environmental Impact Assessment, Water, Mackenzie Gas Pipeline, Feb. 1975
	9301			Spafford		Scour in the East Channel of the Mackenzie River below Tununuk Point Feb. 1,1975; Scour in the Mackenzie River near Naylor's Landing Feb. 1975 Scour, East Channel of Mackenzie
	9323			Yip	Foothills	Environmental Social Committee Task Force Report No. 73-28. Regional impact of a Northern Gas Pipeline. EPB Hydrology and related physical analysis. Environmental Impact Assessment Section 7. Water
	9345			Yip Mirosh	Foothills	Results of newly modified computer program on frost heave No work done on geotechnical assessment of Cross-Delta route
	9410-13					Assessment of stream and river flow - extension of EPB study done for Foothills name of document to be provided
	9431-32			Mirosh Hwang	Foothills	Geothermal model determining berm composition in streams; study of moisture migration
	9437					Klohn Leonoff studies on Float Stability Analysis
	9439-40			Marshall	CAGPL	An analysis of the performance of a warm oil pipeline in permafrost Inuvik,N.W.T. by Morgenstern and Nixon . Thaw consolidation tests on undisturbed fine grain permafrost by Nixon and Morgenstern
65	9463	Sept. 19		Spafford	Foothills	(a) Department of Transport soundings for Naylor's Landing; (b) soundings of Swimming Point (author's name to be submitted)
	9468			Mirosh		UNIES Report on scour in the East Channel of the Mackenzie River below Tununuk Point. February 1975
	9471			Marshall	CAGPL	T.Blench and Associates: "River Morphology Data and River Engineering Design, Major River Crossings North of 60th Parallel"
	9566			Claridge	Foothills	Studies underway re Sheet Flow; travel through established drainage channels with breaks
	9577-78			Claridge		Construction safeguards to be presented to NEB
	9588			Yip	Foothills	No studies carried out on Cross-Delta alternative
	9588-89			Claridge		Northern Engineering Services, "Some Aspects of Natural Slope Stability in Permafrost". Canadian Geotechnical Journal, Vol. XI, No. 4, Nov. 1974 - paper by McRoberts and Morgenstern
	9637-38			Jarvis	Foothills	Studies of winter roads ongoing, no reports to submit to Inquiry
66	9704-05	Sept. 22		Jarvis		Duration of snow and ice load availability - repor in preparatory stage.
	9800			Mirosh	Foothills	Operations and training manual
67	9850	Sept.23		Jarvis		National Research Council data in publication 12881 - correlation between degree days & frost penetration
	9950			Bauer	Foothills	Klohn Leonoff report on slope stability - sidehill cuts along right-of-way
	9969-70			Mirosh		Associated Engineering Services Ltd.-studies of sewage & incineration

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69	10249-51	Sept.25	YK	Williams	MVPI	Northern Engineering Services; frost heave experiments
	10965			Williams		Northern Engineering Services re: berm size, maximum shut-off pressures
	10270-74			Williams	MVPI	Canadian Geotechnical Journal re: frost heave; Cornell University by Dr. R. D. Miller; Carleton University studies and experiments; Dr. Williams' thesis; Dr. Hoekstra's work
	10297-303			Williams		Frost Effect Study of Northern Engineering of May 1974; Results from frost Effects Study of Northern Engineering, March 1975; Hoekstra's experiment
	10329-30			Williams		Substantial body of research re: frost heave; Hoekstra's work; Northern Engineering
	10355			Williams		Report on slope stability
	10361-62			Williams		Dr. Harlan-rates of water movement through frozen soil; Ice distribution in permafrost profiles; Hoekstra papers 1966,1969
	10454			Owen	MVPI	Case history of the Pointed Mountain Gas Pipeline by Northern Assessment Group
	10486-89			Owen		Report by E.B. Owen to DIAND; St. Lawrence Seaway paper
	10494			Owen		Gravel inventory from Fort Simpson to Tuk and over to Arctic Red; Fort McPherson to the Arctic Coastal plain
	10500			Owen		Report by Northern Engineering Services re: removal of gravel from inactive flood plains
70	10506-07	Sept.26		Owen		Observation on the right-of-way of the Pointed Mountain Line
	10527-28			Owen		Study commissioned by Westcoast completed by Schultz re: environmental survey of Pointed Mountain
	10577-78			Lewis	MVPI	1973 report to Environmental-Social Committee Northern Pipelines; re: extreme discharge and backfill; Yukon North Slope rivers
	10585			Lewis	MVPI	Alyeska pipeline; Material Source Borrow Methods, an Evaluation of these methods with respect to Aquatic Habitats re: sources of borrow on river bars of braided streams
	10592-93			Lewis		Recommendations for future study, drilling program to identify all streams with significant ground water flow; impact data into the Battelle Model; testing of culverts
	10594			Goudge Marshall	MVPI CAGPL	Availability of reports by Dr. Lewis
71	10599-600	Oct.14		Genest	CAGPL	Report by Carleton University which comments on CAGPL application
	10614-15			Bayly Longlitz	COPE/ITC MVPI	Section 24 of land use regulations re: filing of reports or final plan on the completion of the work
	10641-42			Bayly Longlitz		Section 23 of land use regulations re: provision for progress reports; guidelines to permit holders; status and activities of the operation
	10659-61			Bayly Longlitz		Developing of new plans and studies to monitor the pipeline; functioning of land use regulation personnel
72	10699	Oct.15		Bayly Longlitz		Upon inspection a report is completed; a copied report is left with the operator re: land use regulations
	10707-08			Bayly Longlitz		Resource management officers re: inspection procedures; reports written on inspection of operators and land use permit holders; legal requirements
	10728			Marshall		To provide to D. Longlitz a copy of Inuvik snow road test report
	10762			Lewis		McDonald and Lewis; DPW report

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72	10770 10771-73	Oct.15	YK	Lewis Lewis	CAGPL	McDonald and Lewis; pages 3 and 4, 1973 Geological survey of Canada information on Blow River by Dr. J. Hunter in 1973; Geological Survey Report of Activities re: Malcolm River; University of B.C., PHD student re: river discharges, water levels of Babbage River, Deep Creek
	10776			Marshall	CAGPL	Volumes 5 and 6 of the reference book on water crossings; data on northern rivers obtained for Alyeska pipeline; North Slope rivers
	10777-82			Adam	EPB	Interim report No. 2 of the EPB re: frost heave problems; exhibit 135, chapter 1 of volume 4; Strang paper of 1937; Appendix IV of Interim Report III of EPB
	10793-97			Adam		Frost Heave report done at Calgary site; Hoekstra's paper; Calgary Frost Heave Report;
	10804			Adam		Volume 4 of EPB Impact statement; re snow roads
73	10834 10868-69	Oct.16		Genest Hoekstra	CAGPL CAGPL	Dr. Hoekstra's paper Freezing in construction soils by Dr. Ducker, published by Springer Verlag, Vienna
	10894-98			Slusarchuk	CAGPL	Frost heave research by Penner and Gold from National Research Council of Canada; research done by those at Cornell, Cold Regions Research and Engineering laboratories; Universities of Alberta and Carleton
	10932			Slusarchuk		Research by McRoberts, Nixon; Besco; Lenel and Kappler of Cold Regions Research; Aiken tests in Alaska; Russian literature re: frost heave
	10956-58			Morgenstern	CAGPL	Measured high pore pressures by McRoberts and Morgenstern; Chandler re: Fort Norman land slide; Environmental-Social Committee, Northern Pipelines Task Force on Northern Oil Development Report No. 73-35
74	10971 10977-78 11008 10983-85 11000	Oct. 17		Genest Williams Williams Williams Genest	CAGPL CAGPL	EPB Report, Environmental Impact Assessment Volume 4, Research Reports, Section 2 R.S.E. Brown, G.P. Williams, Freezing of Peatland; NRC Publication No. 12881; Muskeg Engineering Handbook Shutdown of Winter Travel; Exhibit "D" Trout Lake NRC Publication No. 12881 re: frost penetrations Tables showing the available working light in Inuvik, Norman Wells, Fort Simpson; duration of daylight
	11012			Williams		Report by the land use District Officer in Inuvik frost penetration and snow cover depths; use of rologons; Gulf project; snow making and repair of roads
	11025-26			Parker	CARC	Northern Engineering Services Reports re snow roads; test in Inuvik; Northern snow road report
	11035			Weedon		North slope studies; Prudhoe Bay - Colville River delta area re: waterfowl, black brant
	11038-49			Weedon Anthony	CARC	Bureau of Land Management Report, Bureau of Land Management's Environmental Impact Statement, Volumes 1 and 2; Gas Pipeline Study Group, Biological Report Services
75	11064 11066-67	Oct. 20		Weedon Weedon	CARC	State of Alaska Department of National Resources Open File Report No. 50 from the Division of Geological and Geophysical Surveys Studies on caribou; Bureau of Land Management; Joint Fish and Wildlife Team; Trans Alaska Oil Pipeline Surveillance Team; University of Alaska in the Co-operative Wildlife Research Unit; Polar Record, Biological Conservation; Lapland and Northern Norway reindeer herds; impact studies re Soviet pipelines on reindeer migration; Northern Slope polar bear research
	11083			Marshall Anthony	CAGPL CARC	Environmental Impact Statement
	11088			Weedon		Environmental Impact Statement, Volume 1

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75	11099 11104	Oct. 20	YK	Marshall Weeden	CAGPL CARC	Water availability studies; Dr. McHart and U.S. G.S. Environmental Impact Statement re effects of stream crossings
	11107			Marshall	CAGPL	Aircraft disturbance and compressor station noise, impact studies re caribou
76	11146-51	Oct. 21		Parker Weeden	CARC	Studies of soil, river hydrology along Alyeska route; list of documents
	11164-66			Parker		Draft Environmental Impact Statement, Volume 1, re gravel
	11171-79			Parker Weeden		Research conducted by Wildlife Management Institute at the University of Alaska; Wildlife Management Co-operative Institute
	11201			Weeden		Doctorate thesis by Ronald Stoog re Steese 40 Mile Caribou Herd
	11213			Parker		Field committee, Alaska Natives and the Land; Alaska Native Claim Settlement
	11224			Berger		Book re: Alaskan Native Claims settlement, and the pipeline, Ross
	11226			Parker	CARC	B.L.M. Environmental Impact Statement
	11308			Hughes	CARC	Dr. Mollard's maps and terrain types; Mackenzie Valley Pipeline Assessment re: characterization of soil types
77	11346-49	Oct. 22		Rutter	CARC	Preliminary terrain evaluation of the Mackenzie Transportation Corridor published as part of the Environmental Social Program Volume 73-36
	11369-70			Rutter		E.S.P. study areas of further research
	11386-87			Rutter		Study re: east of the Franklins route, socio-economic aspects; Geological Surveys of Canada research, mapping
	11402-06			Rutter		Geological Survey of Canada open file report, maps, drill hole data for the E.S.P.;
	11410-11			Rutter		Drill hole-data and number; airphoto interpretation; field checking of surficial deposits; Wrigley Area; peat plateaus; soil/vegetation relationships
	11416-17			Rutter		Geological Survey of Canada re: availability of information, air photos interpretation reports and open file reports
	11418-25			Rutter		Staff and researchers involved in mapping and studies; terrain analysis; reports by Dr. Hughes, Dr. Rampton; Mackenzie Transportation Corridor; E.S.P. study
	11443-45			Anthony		Reports, in-house studies; Terrain Analysis Study Study by Dr. Roed
	11457-87			Roed		Model terrain situation report re: fluted moraines
78	11489-504	Oct. 23		Roed		Terrain analysis; study of river crossings; North Sea operation, Santa Fe; North Sea B.P. operation; Tyrrhenia Sea operation; Y pipeline - Northern Miner; Polar Gas route
	11496-504			Roed	CARC	Polar Gas Y pipeline; Northern Miner article
	11510			Roed		Photo interpretation; ERTS imagery and published information; sand and gravel deposits analysis by Janet Drysdale of Geoconsult
	11524-25			Anthony Hollingworth	CARC	Reports, studies re: logistic studies, edge of the shield route
	11540-48			Hollingworth	Foothills	Yorath, 1969 re: ice content soils; Craig's report; Glacial Map of Canada; Dr. Rampton's report done for the Environmental Social Program; North Sea underwater crossings
	11565-66			Hollingworth		Report by Pipeline Assessment Group
	11580			Gouge	MVPI	Report by Dr. Rampton, Terrain Evaluation, Mackenzie Transportation Corridor
	11585			Roed	CARC	Northern Assessment Group inhouse study by Mr. J. Shear re: location of potential gas bearing bodies

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78	11611-74	Oct. 23	YK	Minning	CAGPL	Phase 2 evidence; studies in a general nature which CAGPL has undertaken to support application re: non-living environments; borrow resources, terrain sensitivity, geological and soil studies, permafrost, ground ice; frost heave and frost bulb research; river crossings; climatic data; Davies, K.F. 1974, Hydrometric data summary Mackenzie River Basin, 1973, Environmental - Social Oil Development Report No. 74-
	11670			Minning		Report by Sidey, Peter, 1975, Discussion of the Response of Lichens to Atmospheric Sulphur Dioxide with special reference to those of the Mackenzie Valley, Canada
	11674			Minning		Energy Resources Conservation Board of the Province of Alberta re: noise levels; report and guidelines set by Dr. W. W. H. Gunn re: noise levels
79	11681	Nov. 3		Marshall	CAGPL	Report on station emissions, NES Preliminary Design Mechanical Electrical Local Control, Chap. 6
	11692-93			Bayly	COPE/ITC	Request to have updates of studies of borrow sites
	11694			Minning	CAGPL	Development plans for borrow pits in Pipeline Related Borrow Studies
	11712-16			Dabbs	CAGPL	Preliminary Pipeline Revegetation Specifications for areas north of 60° (by Dr. Younkin)
	11720			Dabbs		Biological Report Series Vol. 2
	11737			Harlan	CAGPL	NES studies of icings
	11739			Harlan		Combined drilling and geophysical program planned for Firth River area and Alaska
	11743			Minning		"Pipeline Related Borrow Studies" exact location of borrow pits
	11753			Dabbs		Progress report under way on revegetation at Sans Sault
	11755			Hollingworth	Foothills	Mitchell and Kendrick Report of February 10, 1975
	11762			Dabbs		"Native Species, Success in Field Trials at Inuvik and Tuktoyaktuk, N.W.T."
80	11772	Nov. 4		Dabbs		Progress Report, CAGPL, Revegetation Studies North of 60°, September, 1974
	11779			Dabbs		Studies by Mitchell of native and agronomic species, Progress Report, 1974, Tundra Rehabilitation Research, Prudhoe Bay and Palmer Research Centre
	11790			Dabbs	CAGPL	Environmental Reports on the Canadian and American lines; Appendix C - seed mixes
	11802-04			Clark	CAGPL	Strang, R. M. "Studies of Vegetation, Land Form and Permafrost in the Mackenzie Valley"
	11811			Clark Dabbs		NES Report on Drainage and Erosion Control Measures, March 1975
	11826			Clark		GSC studies of slope creep along Great Bear River; cooperative program funded by CAGPL, GSC and University of Alberta
	11841			Clark Harlan	CAGPL	Flood data on rivers included in studies of river crossing design
	11864-65			Scott	MVPI	Request for reports that CAGPL said were underway when Fort Simpson route relocated
	11868-69			Hemstock	CAGPL	Studies carried out on Cross-Delta route; alternate modes
	11877-80			Minning	CAGPL	Research on borrow; guidelines for developing sites to be submitted to Inquiry
	11889			Hollingworth	Foothills	Recommendations of Klohn, Leonoff and Lombard North re adjustments to route
	11920			Hemstock		Belief in soundness environmentally of snow roads on North Slope based on NES reports and studies, Battelle reports on Prudhoe Bay area snow roads
	11921			Dabbs		Hobble - studies of lakes, snow cover, ice
	11936			Dabbs		No hydrologic studies of snow road runoff

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81	11962-63	Nov. 5	YK	Anthony	CARC	Articles and papers referred to by Dr. Roed filed as exhibits - re alternative routes and pipe laying in deep water bodies
	11975-76			Harlan	CAGPL	Source of springs and ground water activities to be further identified
	11986			Anthony		Environmental-Social Committee Report #7337 by Dr. Hughes and Mr. Van Everdingen
	12002			Williams	CAGPL	Report by Hart and Roe re sewage disposal
	12004			Williams	CAGPL	Associated Engineering Services - studies on sewage disposal
	12012			Hemstock	CAGPL	No studies of combined effect of gas and oil pipelines
	12081			Minning	CAGPL	Preferred and alternate sites for borrow to be produced
	12091-92			Hemstock		Copies of recommendations at seminar on waste disposal in Ottawa
	12108			McCart		Biological Report Series Vol. 15
	12114-15			Minning McCart		Report on reconnaissance of borrow operations in Alyeska line
82	12146-47	Nov. 6		Dabbs	CAGPL	Disturbance studies on birds carried out by Williams Bros. Results reported in Biological Report Series
	12154			Dabbs		Strang, Fernandez - Studies on effects if right-of-way not reseeded
	12157-62			Veale	CYI	Request to read report by George W. Miller on Ross River, "The Economic Acculturation of an Indian Band"
	12246			Hemstock	CAGPL	E. B. Owen report on Pointed Mountain Gas Pipeline
	12290-91			Veale Scott	MVPI	Debate over release of Miller report on Ross River "The Economic Acculturation of an Indian Band"
	12308			Scott		Photos and reports requested by NEB on Prudhoe Bay test site - cracks in berm
	12316			Dabbs	CAGPL	Revegetation studies at Tuk - tundra mat removal project
83	12331	Nov. 7		Genest	CAGPL	Geotechnical, Environmental reports, Cross-Delta route change to be filed soon
	12336			Dabbs		Studies of revegetation in mineral soils are underway
	12358-60			Scott Minning	CAGPL	Mackenzie Valley granular materials inventory incomplete
	12371-72			Scott Minning		CAGPL's process of review of borrow site locations, completion date
	12443			Scott McCart	CAGPL	Steigenberger's report, Malcolm River and others, summer flooding
	12471-75			Scott McCart Harlan Marshall	CAGPL CAGPL	DOE's guidelines, gravel mining river beds
84	12523-24	Nov. 8		Anthony	CARC	NAG reports
	12535			McCart		CAGPL studies, insulated culvert and pipe, frost bulb, ground water flow
	12552			Anthony		Request for CAGPL's report on ice bridges
	12562			Anthony	CARC	Brunskill, location of campsites near water sources
	12566			Anthony McCart Hemstock	CAGPL CAGPL	CAGPL reports, compressor station sites
85	12617	Nov. 12		Marshall	CAGPL	"Strength of Ice Covers", "Ice engineering pertinent to the oil industry"
	12635			Bayly	COPE/ITC	Steigenberger, North Slope rivers, fish
	12658			Bayly		EPB report; river channel stability
	12672			Bayly		EPB, Vol. 4, gravel mining, North Slope rivers
	12695			Bayly		Creighton Report, hydro-electric dams
85A	12744			McCart		Fishery service studies, Oscar Creek
	12761			Scott	MVPI	Wesch and Richard, trout-eggs

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86	12891 12973 12992-93 13034	Nov. 13	YK	Bouckhout Bayly Gibbs Williams	Foothills Foothills CAGPL	Studies, borrow material requirements Gamble "Land for Waste Management...", waste disposal "Productivity Comparison in Inuvik Area", "Working Light at Inuvik" Battelle, weather conditions, Prudhoe Bay, Barter Island
87	13086 13106 13119-21 13147-48A 13183-85	Nov. 14		Bayly Taylor Lawrence Cartei Vaartnow Marshall	 Foothills CAGPL CAGPL Foothills	"Arctic Alternatives", secret burial grounds, Delta Very little done in studying natives' aesthetic attitudes Water supply studies, Blench; sewage treatment, Assoc. Engineering Services Ltd. Revegetation seed supplies, Mitchell and MacHendrick, Pringle and Ellis Strang, DOE, "Inappropriateness of Terrain Sensitivity"
88	13268	Nov. 17		Ryder	MVPI	"Preliminary Archaeological Study, Mackenzie Corridor, 2nd Report"
88A	13359 13378 13382			Hemstock Dabbs McCart	CAGPL CAGPL CAGPL	Studies undertaken by CAGPL re impact on living environment Studies, effects of methanol spilled on vegetation; report by Younkin CAGPL Biological Report Series Volumes 15, 16, 19, 33, fish
89	13399-13410 13411 13450-56 13484 13536	Nov. 18		Gunn Gunn Jakimchuk Jakimchuk Dabbs	CAGPL CAGPL CAGPL	Studies for CAGPL, impact on birds, Biological Report Series, vols. 10, 11, 12, 13, 14, 26, 27, 28, 29, 30, 31 Disturbance studies, Biological Report Series, Vol. 14 Mammals studies, reports, Biological Report Series Klein, effects of development on reindeer, Scandinavia; Bergerud, "The Role of the Environment in the Aggregation Movement and Disturbance of Caribou" Environmental monitoring, Chick Lake Basin - Donnelly River system
90	13606-12 13665 13676-78 13693 13715	Nov. 19		Dabbs Berger Bayly Bayly	 COPE/ITC	Effects of methanol, oil etc. on vegetation, E-SP, Bliss and Wein Railroad studies; try DPW and DOE for highway impact studies Gill, "Forestry Operation in the Canadian Sub-Arctic and Ecological Argument Against Clear-Cutting" Zoltai and Tarnocai, study of effects of fire on perma-frost table Aldo Leopold, "Sand County Almanac"
91	13773 13834 13839-43 13864-65 13953	Nov. 20		McCart Marshall McCart Berger Hemstock Berger	CAGPL CAGPL CAGPL CAGPL	Traditional fishing areas, Fish swimming performance, Journal of Fisheries Research Board; Brian, ESP article 73.6 CAGPL summary of ornithological recommendations Methanol effects on fish egg fertilization, on benthos, on fish; effects of warm water testing fluid Winter construction, Canol pipeline Obtaining government reports on impact of Dempster Highway
92	13956 13972-74 13987	Nov. 21		McCart McCart Bayly		Extent of fisheries studies Studying fish populations, methodology Steigenberger report, fish populations

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92	14005-06	Nov. 21	YK	McCart	CAGPL	Fish baseline data; extrapolation from one area to another
	14014-16			Berger		"Super Ship" by N. Mostoert
	14021-22			Hemstock	CAGPL	Establishing methodology
	14042-44			McCart		Biological Report Series, Vol. 15, EPB atlas
	14047			McCart	CAGPL	Biological Report Series, Vol. 15
	14054			McCart		Biological Report Series, Vol. 15
93	14066	Dec. 1		McCart		CAGPL report, Vol. 15 re abandonment of snow roads in the spring, impact on fish
	14068			McCart		Reference to Biological Report Series, Vol. 15, Chapter 5, experiments done by McMann and Caetier
	14073			Ryder McCart	MVPI	Report by J. B. Sprague, "Measurement of Pollutant Toxicity to Fish", 1970
	14079			Banfield	CAGPL	Report by Dunbar, M. J., 1973; "Stability and Fragility in Arctic Ecosystems", <u>Journal Arctic</u> , Vol. 26, pages 179-185
	14093			McCart		Paper by Craig and McCart which appears in <u>Arctic and Alpine Research</u> , 1975
	14096-14100			McCart		Baseline information re water quality, fish sensitivity, habitat change
	14102			Gunn	CAGPL	Studies by Canadian Wildlife Service re nesting sites of peregrine falcons
	14110-12			Gunn		Biological Report Series, Vol. 14 re disturbance from aircraft; Black Brant, Arctic Terns, eider ducks
	14114			Gunn		Work by White and Sherrod, 1973, "Advantages and Disadvantages of Rotor Winged Aircraft in Raptor Studies"
	14116-17			Gunn		Vol. 27 of the Biological Report Series re impact of helicopters and fixed wing aircraft on snow geese
	14122			Marshall	CAGPL	Report made available by CAGPL re servicing of compressor stations, inspection of the line completed by Avcon, information on the Inuvik district
	14125-29			Gunn	CAGPL	Study re population studies; nesting densities; sample size
	14130-31			Gunn		Vol. 29 of Biological Report Series; comparative studies
	14152			Gunn		Summary of "Ornithological Recommendations in Regard to the Proposed Gas Pipeline Route", March 1975
	14169-70			Gunn		Paper by E. Godfrey of the National Museum, in the <u>Canadian Field Naturalist</u> re Canada's endangered birds
	14175-80			Gunn		Noise experiments; harrassment of snow geese, nesting and staging birds
94	14213-14	Dec. 2		Marshall Scott	MVPI	Reports - availability; Cross-Delta Route Change
	14217-18			Gunn McCart	CAGPL	Need for more research re Delta area
	14235			Jakimchuk	CAGPL	Research proposals, initial study
	14245-46			Jakimchuk		Initial caribou research, data collection, review of sources, winter range, calving range
	14285-88			Jakimchuk		Mammal disturbance studies; "The Behaviour of Ungulates and Its Relation to Management", edited by Geist and Walther, University of Calgary, Vol. 2; "The Behaviour of Ungulates", Paper No. 29 by A. J. Bergerud; Kelsall, 1968; Biological Report Series re response to airships and seismic camps Mar. 1970
	14296-14300			Banfield	CAGPL	EPB Environmental Impact Assessment, Vol. 4, Research Report - Chapters 3 and 5 by Dr. Calef, other Caribou Herds
	14308			Bayly	COPE/ITC	Banfield, Environmental Review Meeting, April 12, 1973, - route selection, caribou migration
	14314			Jakimchuk	CAGPL	Biological Report Series, dates of caribou migration arrivals

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94	14327	Dec. 2	YK	Jakimchuk	CAGPL	Need for study by Yukon Territorial Game Branch re impact of the Dempster
	14331-35			Banfield	CAGPL	Environmental Impact Assessment, a report by Shultz International Consulting Company, 1972; EARP - in house environmental review of the Dempster Highway; Mackenzie Valley assessment
	14356-57			Banfield		Porsild, "The Mammals of the Mackenzie Delta", 1945, in <u>The Canadian Field Naturalist</u> ; Kevan, "The Caribou of the Northern Yukon Territory", 1970, The Canadian Wildlife Service
95	14364	Dec. 3		Jakimchuk		Environmental Protection Board, pg. 79, Chap. 4 of Vol. 4 - re foxes, adaption to man, garbage, nuisance
	14367			Bayly		EPB report, pg. 85 re grizzly bears
	14371-74			Banfield		EPB approach re matrix; environmental research and assessment methodologies; National Environmental Policy Act discussion of, by Mr. W. T. Lake
	14380-81			Banfield		Mr. Lake's paper re environmental assessment
	14383-14451			Environmental Panel	CAGPL	Environmental research and assessment; route selection data; internal discussions; interdisciplinary/multi-disciplinary approaches; recommendations; terrain typing; Journal of the Fisheries Research Board, January to April 1975, by C. Walters (pg. 14424)
	14458			Banfield	CAGPL	Collection of base line data; cumulative impact - CNT Lines, highways, barge traffic
	14476-95			Banfield Jakimchuk	CAGPL	"The Scientific Management of Animals and Plant Communities for Conservation", the 11th Symposium of the British Ecological Society, University of East Anglia, Norwich 7th to 9th of July, 1970, Edited by E. Duffey, A. S. Watt; article by Dr. Geist, "Behavioural Approach to the Management of Wild Ungulates"
	14496			Bayly	COPE/ITC	Environmental assessment, the Garrison Diversion in North Dakota
	14498-14504			Banfield		Scotland - Regional plans, Alaska land use; environment assessment work; J. H. Ross, 1974, Nanaimo Environmental Assessment Methodology, DOE publication.
	14521-22			Hemstock Veale	CAGPL CYI	Alaskan experience re training programs
	14532-34			Scott	MVPI	Miller Report on the Ross River
96	14536-37	Dec. 4		Jakimchuk		December 1971 Report of the Northwest Study project Wildlife Series; Biological Report Series, Vol. 4
	14545			Jakimchuk		Specific disturbance studies on musk-oxen have not been conducted
	14550			Jakimchuk		Dr. Calef, EPB research reports - caribou population
	14551			Jakimchuk		CWS study on the Kaminuriak herd - population
	14560-61			Jakimchuk	CAGPL	Vol. 4, Biological Research Series - wintering grounds
	14567-70			Banfield Jakimchuk	CAGPL	Dr. Kline - study of the abandonment of a caribou range in Norway due to a road access
	14573-82			Banfield		Paper given at 1971 Seminar in Europe; renewable resources research; research by Jakimchuk; caribou populations and migratory routes
	14584-86			Jakimchuk		Snow depth and conditions - Vol. 5, 1972 studies
	14592			Jakimchuk		1971, 1972 studies re caribou activities, movements
	14595-14606			Jakimchuk		Survey work 1971: caribou migration; Dempster Highway - need for research into caribou/highway interaction
	14610-16			Jakimchuk		Further research warranted as to post-calving aggregation; abandonment - impacts on the Porcupine herd; Dempster Highway interaction
	14626-28			Jakimchuk		Baseline information as to the Dempster Highway impact on caribou incomplete

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96	14636-58	Dec. 4	YK	Jakimchuk	CAGPL	Need for more study re use of Dempster Highway for transport of construction materials etc; impact on caribou migrations
	14666-67			Banfield Hemstock	CAGPL CAGPL	Research responsibility of a government agency; herd management; future developments are unpredictable - need for research
	14669-78			Jakimchuk		Caribou on the coast - McEwen 1952; caribou wintering areas; snow fence research; additional research required
	14680-83			Jakimchuk	CAGPL	Research as to calving area shifts; 40-Mile Herd - decline, reasons; Alaskan studies - duplicating of research; access
	14690-14704			Gunn	CAGPL	Biological Report Series, 1972, Vol. 14 - harassment of birds; Vol. 29 - helicopter overflights; long-term disturbance studies; bird counts; flight height; Northwest Project Study Report - Vol. 1 - 1971
97	14710-15	Dec. 5		Banfield	CAGPL	Hemming, "The Distribution Movement Patterns of Caribou in Alaska"; Skoog, Curatols, studies of 40-Mile Caribou Herd
	14717-20			Hollingsworth Marshall	Foothills CAGPL	FPC report on Fairbanks corridor
	14722-32			Bell Jakimchuk	NWT IB/MA	CWS survey, moose, Mackenzie Valley; CAGPL survey, sensitive moose areas; ESP Report 73-27, "Inventory of Wildlife Habitat of the Mackenzie Valley and Northern Yukon"; application environmental statement, "Protection Measures - Mammals"
	14734-35			Templeton Hemstock	EPB CAGPL	Research to meet government requirements
	14772-94			Templeton Hemstock Banfield Scott	MVPI	Cross-delta, Fort Simpson route changes; EPB environmental impact matrix; Sorensen, "Some Procedures and Programs for Environmental Impact Assessment"; Ross, "The Nanaimo Environmental Assessment Methodology"
	14794			Templeton Gunn		CAGPL studies of Yukon coast spits, barrier beaches
	14800			Templeton Gunn		Biological Report Series, Vol. 14, Chap. 7
	14806			McCart	CAGPL	Report on cross-delta route
	14826-31			Jakimchuk	CAGPL	CAGPL impact assessment doesn't contain impact of completed Dempster highway
	14833-34			Scott	MVPI	Brooks, number of bird species, North Slope; CAGPL bird reports
	14856-60			Gunn	CAGPL	CAGPL report giving critical bird areas, Delta and Arctic Coast
98	14892-94	Dec. 8		Scott Hemstock	CAGPL	Siltation studies, North Slope ponds, lakes
	14897-904			Gunn		Noise disturbance studies, Lapland longspur, snow geese, compressors, aircraft
	14906-11			Gunn		CWS studies, peregrine falcons, Mackenzie Delta; CAGPL bottom sampling, Shallow Bay
	14912-19			Scott Gunn		Goose grazing, McConnell River; CAGPL revegetation studies; increased human access to birds, recommendations
	14920-25			Jakimchuk		Bluenose caribou herd not studied; Kelsall, Bluenose herd wintering ground; CWS surveys; Bluenose population
	14941-45			Jakimchuk		Caribou herds, post-development, pre-development; study duration
	14958			Jakimchuk		Child, caribou perception of simulated above-ground pipeline
	14969-71			Scott Marshall	CAGPL	McEwan, Porcupine calving herd appearing on North Slope March 25th
	14973			Jakimchuk		Biological Report Series, recommendations re: work curtailment to minimize caribou disturbance

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98	14979-82	Dec. 8	YK	Scott Jakimchuk	MVPI CAGPL	Caribou reactions to stimuli; future study areas
	14991-15006			Scott Berger Marshall Hemstock Banfield	CAGPL CAGPL CAGPL	Studies needed for game management programme; studies of other developments; restriction of CAGPL studies to pipeline impact; continuation of Biological Report Series for government; E-SP studies
99	15007-22	Dec. 9		Marshall Scott		Request for Foothills reports - "Assessment of chilled versus Non-Chilled Pipeline", "Mackenzie Valley Gas Pipeline Right-of-Way Drainage and Erosion-Hydrology", "River Crossings Preliminary Design Data", "Thaw Consolidation Tests"; Geist's report for Inquiry counsel; CARC reports not all produced - "Production, Transportation and On Shore Activities of Off Shore Oil and Gas Development in the Beaufort Sea", "Some Anticipated Effects of a Buried Chilled Gas Pipeline", "Some Conflict between the Scheduling of Pipeline Construction and Environmental Phenomena", "An Overview of the Status of Enforcement of Environmental Legislation in the Northwest Territories", "A North Slope Off Shore Corridor for a Gas Pipeline, an Aspect of Alternative Routing Consideration", "Annotated List of Environmental Issues of Relevance in the Mackenzie Valley Pipeline Inquiry", "The Mackenzie Valley Transportation Corridor Study," "Case History of the Pointed Mountain Gas Pipeline", "Studies Which Estimate the Number of Southern Transients that Can Be Expected in the Delta, 1975-85"; CAGPL Biological Report series available for inspection
	15026			Jakimchuk	CAGPL	McEwen's survey, overwintering caribou, North Slope; Biological Report series, vol. 5
	15057			Hollingworth	Foothills	List of Foothills documents has arrived
	15064			Hemstock Scott	CAGPL MVPI	Hemstock, paper to Royal Society, parks, game preserves, development lands
	15080			Banfield	CAGPL	Pearse, "some economic and social implications of the proposed Arctic International Wildlife Range."
	15082-83			Scott		Hemstock's Royal Society paper; Assessment Group report, p. 378
	15085-104			Hemstock Scott		Application, 7.5 p. 9; 14, 6. 39 Aesthetics, visual impact of pipeline; PAAG, p. 339, local people's views p. 382, archaeological salvage; Cinq-Mars', Reeve's and Miller's reports, archaeological salvage
	15106-15			Bouckhout	Foothills	Foothills environmental statement and map series, information sources; Lombard North's studies
	15136-85			Environmental panel		By Foothills consultants for environmental statement
100	15192	Dec. 10		Bouckhout		Decision-making process, mitigative measures
	15203-27			Bouckhout		Biological field studies; fish population studies by Aquatic Environment and Fisheries and Marine Service; Gunn, snow goose population, North Slope, Calef, Mackenzie Buffalo Sanctuary; CWS, Bluenose herd; planned studies, Foothills
	15233-58			Kondla Whitney	Foothills Foothills	Chant and Cloutier, "Parameters for Ecosystem Evaluation" ("Planning and Finance Service, Occasional Paper No. 1") evaluation through objective criteria; Stardom, woodland caribou, Lake Winnipeg area; Freddi, Selkirk caribou herd;
	15233-58			Kondla Whitney	Foothills Foothills	Dr. Fruit's student, woodland caribou; woodland caribou information in other CWS reports, e.g. "Migratory Waterfowl Surveys in the Area of Mills Lake"; "Objective and Subjective Judgements in Environmental Impact Analysis"; collecting data from other reports on wood bison; Application, part 5, section D, "Environmental Statement".
	15260			Hayden	Foothills	Review of culvert studies by Fisheries and Marine Service

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100	15274-83	Dec. 10	YK	Bouckhout Whitney	Foothills Foothills	Environmental studies by CAGPL available to Foothills; Foothills concentrates studies on non-common route areas, report completion scheduling
	15283-85			Scott Hayden	MVPI Foothills	Foothills consultants have read CAGPL studies; gaps in CAGPL studies; studies required before making recommendations about river crossings
	15317-18			Scott Hayden		More information required on commercial, domestic fisheries; request for research program on community laterals
	15354-59			Marshall	CAGPL	CWS report, Bluenose herd; permission to release required from author; Geist's report on caribou Bluenose herd - for cross-examination use; DeBach's report; Hawley surveys, CWS; reports, Hawley 1966, Thomas 1967, DOE
	15361-63			Whitney		His own article in <u>Science</u> re reindeer herding; reference to article by Klein
	15374			Scott		Fyfe, moving eagle nests
	15380			Whitney		Deficiencies in Arctic Gas environmental studies
101	15383-89	Dec. 11		Anthony	CARC	Reply to Marshall re: obtaining CARC reports; what CARC list comprises; "The Annotated List of Environmental Issues of Relevance to the Inquiry"
	15390-402			Scott Whitney Hayden Kondla Finney	MVPI Foothills Foothills Foothills Foothills	Deficiencies in research; future research needs; deficiencies in CAGPL application; winter ecology; winter siltation study; permanent roads in fens and swamps; rare vegetation; biophysical land classification; raptor nesting; biological variability impact of barging on waterfowl; native civilization
	15409-33			Peterson	CARC	DOE research programs; Land Use Information Map Series; Environmental - Social Program; Rept. 74-17; "Pipeline North: The Challenge of Arctic Oil and Gas"; "1972 Expanded Guidelines for Northern Pipelines"; scope of E.S.P. research projects and PAAG report, general compared with more specific; geographic coverage of E-S P reports; "Mackenzie Valley and Northern Pipelines, Regional Analysis; E-S P Open File 106 PAAG Report; P. 377-383, 312,310; Janes, E-S P open File 106
	15435			Peterson		Nature Canada
	15436			Peterson		UNESCO "Guidelines for the Selection of Biosphere Reserves in Canada"; Ecological Reserves in Canada; Ecological Sites in Northern Canada; Ecological Sites in Subarctic Canada
	15438			Peterson		Canadian Man and the Biosphere Rept. No. 6
	15439			Peterson		CAGPL Phase III evidence, Chick Lake Study
	15445			Peterson		"IBP Ecological Sites in Subarctic Canada"; "Ecological Sites in Northern Canada"
	15447-48			Zoltai	CARC	Studies on vegetation, land form, permafrost, E-S P volumes 73-4, 74-5, 74-44
	15457-60			Scott Anthony	MVPI CARC	Geist, "Harassment of Large Mammals and Birds with a Critique of the Research Submitted by Arctic Gas Study Ltd., on this subject;" DeBock and Surrendi Porcupine caribou herd; production of CARC reports
	15478			Marshall	CAGPL	Batelle, "A Convective Model for Subsurface Flow Around a chilled Pipeline".
	15492-501			Marshall		NES report on fenland area along route
	15521			Zoltai		Experiments, prevention of artificial palsa formation in wet fens
102	15543	Dec. 12		Zoltai		E-S P 73-4, recommendations
	15595-604			Peterson	CARC	Harrison Island, Williams Island, long-term studies; "I.B.P. Ecological Sites in Sub-Arctic Canada"; Hart Lake, long-term studies; hydrological studies Peter Lake, gravel removal studies, Caribou Hills I.B.P. site
	15646			Novakowski	CARC	Dagg and Campbell, wolverine pelt counts

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103	15712-13	Dec.15	YK	Marshall	CAGPL	NES report, "Pipeline related borrow studies, Cross delta alternative route, east of Fort Simpson re-alignment"; Avcon Consultants Ltd, "Aviation Weather Study, Prudhoe Bay to Shingle Point
				Ryder	MVPI	Surrendi, DeBock and Dennington report; draft format
	15720-22			Stein	CARC	Impact studies conducted by Fisheries and Marine Service; "Guidelines for the protection of fish resources of N.W.T. during highway construction and operation"
	15734-35			Stein	CARC	ESP 73-1 Stein et al, ESP 74-7 Jessop et al, Jessop and Lilley, 1975
	15742-43			Stein		Recommended establishment of an aquatic ecosystem program, biological monitoring programs
	15745			Walker	CARC	Evaluation of coastal route re: government/industry data exchange
	15755-67			Anthony	CARC	North Yukon freshwater fisheries studies. 1973, 73-21; Freshwater aquatic ecology in North Yukon, October 1973, 17-21; Freshwater fishery resources of North Yukon 73-6; Biological Report Series Vol. 15, Chapters II, III; Environmental Social Committee Reports No. 73-6, 74-20; Biological Engineering Evaluation, Volume I; ESP; Beaufort Sea Project
	15770-73			Steigenberger	CARC	Overwintering sites re: Porcupine, Bell Rivers cited; McCart Report, 1973 cited
	15796-97			Millen	CARC	Pipeline construction guide, central and southern British Columbia, July 1974 re: gravel removal
	15800-06			Stein		Summary - studies of speaker, Dr. McCart; Beaufort Sea Program, overview report re: fish resources - pipeline impact
	15808-10			Stein		Highway construction monitoring - Smith Creek; Great Bear River hydro development; domestic fishing and spawning areas (general)
	15812			Millen		Ochre River - winter flow variation at crossings
	15822			Stein		Stein Report re: Artic charremoval from Big Fish River
	15828			Stein Marshall	CARC CAGPL	Biological Report Series re: methanol toxicity
	15838			Stein Marshall		Reference to Dr. McCart's studies
104	15841-49	Dec.16		Bayly Stein	COPE/ITC	Synoptic helicopter surveys, intensive stream studies on Mackenzie re: aquatic resource - fish habitats, food habits, migrations and migratory routes
	15850-61			Stein Bayly		References to: Beaufort Sea Project; Mann et al, 1974; Stein et al, 1973; Jessop and Lilley Report; Craig and Mann 1974. re: spawning, movement, habits of Arctic cisco, humpback whitefish
	15867-70			Stein		Recommendation - further studies on sedimentation, toxicity; relate work to Northern species, organisms, environment, fish populations
	15886			Steigenberger	CARC	Beaufort Sea study re: inconnu feeding habits
	15896-99			Stein		Fish migration studies at Shallow Bay
	15903			Stein		Logging of Arctic char catch at Cache River; siltation impact studies by Drs. N. Snow, D. Rosenberg cited
	15908-12			Steigenberger Marshall		Fisheries Service, Vancouver - Yukon studies terminated March 31, 1975, Stein et al; tagging program, Shingle Point in Mackenzie Delta; Craig and McCart Report
	15913-41			Stein Steinberger Walker Millen	CARC CARC CARC CARC	Arctic Gas fisheries studies in Yukon: Fisheries Department study on the Mackenzie; river crossing studies - Rengleng, Rock, LaBiche, Martin Rivers; rivers in need of further study
	15942-43			Steigenberger		"Northern Yukon Fisheries Studies," Volume I, Technical Report, PAC-T75-19
	15949-52			Steigenberger		"Northern Yukon Fisheries Studies, 1973" 74-20

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104	15966	Dec. 16	YK	Bayly	COPE/ITC	"The past five years, lessons learned and their effects on the Mackenzie Delta Planning"
	15973-75			Walker	CARC	Enforcement proposals re: construction practices, (directed to Mr. Goudge)
105	15976	Dec.17		Goudge	MVPI	Fyles - list of reports requested by Banfield Reports - clearance by D.O.E.
	15983			Hollingworth	Foothills	Studies of streams in southern Canada as suggested for Mackenzie region
	15996			Marshall	CAGPL	Re: Bissett's letter to Dr. Fyles - request for reports not listed
	15998-16010			Anthony Walker Stein Millen	CARC	Panelists' information base re: reading of all evidence; objectives of Fisheries Service Program; programs underway re: fish habitat; highway monitoring study; protection of slopes from erosion; passage of sub-surface flows
	16014-77			Walker		Research cost re: pipeline, incomplete to date
	16024-30			Stein	CARC	Aquatic Environments Volume 15 of Biological Report series, Chapter 4 re: sedimentation; Doctors Snow and Rosenberg, Freshwater Institute re: sedimentation; request for copy of recommendations re: stream crossings affected by highway
	16032			Walker	CARC	Unpublished reports re: impact of highway on aquatic resources in Yukon
	16035-36			Steigenberger Marshall	CARC CAGPL	Beaufort Sea program re: critical overwintering areas for fish; Aquatic Environments re: water availability studies on the North Slope
	16037-43			Steigenberger		Amount of water required for testing pipe re: McCart's study; measurement of springs discharge; water availability re: North Slope; fish in critical habitat
	16054-56			Stein		Beaufort Sea studies re: overwintering site, Malloch Bay; Dr. McCart's study re: spawning and overwintering sites
	16061-64			Marshall Steigenberger		Byron Report re: river engineering and hydrological matters, recommendations; fish re: sedimentation; extent of pipe burial, length of crossing, protection against erosion
	16074			Marshall		"Terrestrial Mammal Studies Along Cross-Delta Pipeline Route", Renewable Resources Consulting Services Limited, December, 1975
	16075-80			Ryder Stein Walker Steigenberger	MVPI CARC CARC CARC	Tolerance levels of species to environmental damage; mitigation and engineering techniques; winter studies re: every tributary; reaction of methanol in Arctic; overwintering areas; gravel resources; water quantities; effect of sedimentation on overwintering areas
	16083			Steigenberger		"Impacts of forest harvesting on streams in the Slim Creek Watershed in the Central Interior of B.C.", B.C. Fish and Wildlife Branch, presented at a Forest Soils and Stream Ecology Program, May 1975
	16092-96			Ryder		Dr. McCart's stream catalogue
	16117-18			Ryder		Report Series, volumes 16 and 34
	16134-52			Lent	CARC	Skoog, caribou centres of habitation, disappearance of caribou from Seward Peninsula, location of calving grounds; wintering grounds, Child, Collins, biological reports of Arctic Gas and Renewable Resources; energy loss from insect harassment, Geist; use of coastal zone, Child, LeResche; calving concentration, Skoog, early spring movement, Munro; movement in insect season, Bergerud; protein in vegetation; behavioral responses of caribou, structures; contract effect, Geist
106	16154-55	Dec. 18		Father Fumoleau	NWT IB/MA	History of Indian people of the N.W.T. re: discovery of oil in Mackenzie Basin, Klondike Gold Rush, Norman Wells oil discovery
	16159-68			Lent		Charles Champion, "Assessment of Project Status: Trans-Alaska Pipeline", February 6, 1975; Allen Carson, "An Analysis of Environmental Stipulation Compliance on the Trans-Alaska Pipeline", September 10, 1975 construction scheduling delays, environmental consequences
	16169			Lent		Preference for open ditching; areas used by muskoxen crossed by pipeline; seasonal and sex differentials re: animals encounter to pipe

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106	16180-81	Dec. 18	YK	Lent	CARC	Bergerud, Klein, Millen, Jonkel re: disturbance and barrier effects
	16187-88			Anthony	CARC	Two Arctic Gas reports re: graph, locations of Alaska herd
	16191-94			Calef	CARC	Caribou population studies, Banfield, Kelsall, Thomas, Parker, Murie, Skoog
	16196-203			Calef		Skoog, population of Steese 40-Mile caribou herd; Banfield, Kaminuriak caribou crossing Hudson Bay Railroad; Parker, population of Kaminuriak herd; Klein study, abandonment of ranges by reindeer in Norway; Whetmore study re: caribou in Labrador
	16214			Calef		Caribou sensitivity re: disturbance on calving grounds, Lent, Bergerud, DeBock
	16218-23			Calef		Calef and Grant Lorty study, caribou calving; Biological Report series, Jakimchuk's map of migratory movements; Jakimchuk's study re: summer energy in caribou; Renewable Resources Consulting Company, caribou calves mortality
	16232-40			Calef		Calef and Grant Lorty study, distribution of caribou; Jakimchuk's study, caribou migratory periods; DeBock, - caribou reaction to humans; unknown information re: caribou winter ranges, migration routes, population balance
	16558-59			Lent		Research re: pipeline effect on caribou and moose, Alaska Department of Fish and Game; foxes, North Slope
	16265-67			Lent Marshall	CARC	Dr. Banfield, comparison of environmental and natural effects; CWS, mortality on calving grounds; Lent's study on western Arctic sub-population; Alaska Department of Fish and Game, caribou population; Murie's study, population estimates of caribou; EPB reports re: table of population size and densities of various North American caribou herds
	16277-79			Marshall	CARC	LGL report "Ornithological Studies, Cross-Delta Route", December, 1975, snow goose surveys, ground transect report, aerial survey report, comparison report with recommendations, concern for Mackenzie Delta
107	16281-82	Jan. 12		Anthony	CARC	Papers presented at the December CARC conference filed; available - three reports not previously completed
	16314			Templeton	EPB	Arctic Gas Environmental Assessment of the Cross Delta Route Change - December 19, 1975
	16338-39			McT-Cowan	EPB	Wildlife and bird disturbance studies; aircraft altitudes, frequency; implanting of radiosonde
	16352-59			McT-Cowan Wilimovsky Templeton	EPB	Environmental assessment methods and techniques; impact matrix interaction matrix Nanaimo Environmental Assessment methodology; KSIM computer model; Garrison River diversion; Bureau of Reclamation analysis
	16364-65			Templeton		Updating of studies re: Arctic Gas route change
	16371			Wilimovsky	EPB	Use of the construction team to collect data on their day off when they are recreation fishing
	16373			Wilimovsky		No systematic attempt to study trends of domestic fisheries
	16388-95			McT-Cowan Templeton		Data and study sufficient enough to assess environmental impact; overflight and disturbance studies by Dr. Gunn; animal disturbance studies; stress-physiological, behavioural
	16399-406			Berger McT-Cowan		Route preference re: differing opinion as to caribou sensitivity, pipeline interaction; coastal wintering of caribou; population and herd composition
108	16407	Jan. 13		McT-Cowan		Caribou issues - difference of opinions among experts; data gaps
	16410			McT-Cowan		Zhigunov - Russian reindeer, collapse due to exhaustion; Dr. Bannikoff, reindeer studies, damaged lungs of Saiga antelope due to over-exertion
	16415-16			Gourdeau	EPB	The Regional Impact of a Northern Gas Pipeline, vol.5 - E-S P Report; hunting and trapping statistics
	16424-25			McT-Cowan	EPB	Research has been massive yet predictive value is low; single studies integration required; need to test hypothesis of flies on the coast

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108	16460-64	Jan. 13	YK	Wilimovsky Templeton McT-Cowan	EPB EPB EPB	Study assessing the effects of construction on stream environments in north-western Canada; three to four studies done for government; quantity of gravel available from outwash plains; blasting - distances from caribou, Offshore Seismic Seminar, 1974, published by DOE, Fisheries and Marine Service; the Defence Research Agency experimented as to effects of blasts on underwater organisms
	16467			Templeton		Guidelines for environmental training of pipeline construction workers', July 1973, Oetting & Doyle
	16503			Adam	EPB	Strang study in 1973, erosion, disturbance
	16512-13			McT-Cowan		Studies re: Grizzly bears; Biological Report Series, vol. 32
109	16585	Jan. 14		McT-Cowan		Need for a land capability study
	16602			Thomson	EPB	Impact studies
	16674-84			Craik Bliss Wilimovsky Adam	EPB EPB	Environmental work by CAGSL; revegetation, money invested in research; subjective conclusions; directions of research, slope stability, bird disturbances, experimentation re: winter roads
	16690-701			Wilimovsky		Value of research, need for continuing research; siltation; fish and game management
	16708-10			Wilimovsky		Fish management; need for an inventory of fish stocks
	16714-17			Berger McT-Cowan		Attempts to establish quantification for living resources
	16735			Berger		Environmental impact statement of FPC
110	16737-39	Jan. 15		Scott	MVPI	Reports by the Beaufort Sea Project, availability
	16747-49			Bergerud	CARC	Arctic Gas studies - need for uniform data collection, short-term impacts studies; corridors
	16756			Bergerud		Jakimchuk's studies; Child's studies in Alaska re: caribou birth rates, mortalities
	16760			Bergerud		Child's studies re: snow fences, migratory crossings
	16767-68			Bergerud		Geist-harassment of caribou, adaptation; Murie - caribou population in Alaska; wolf/caribou relationship - use by wolves of trails
	16777-80			Lent	CARC	Reindeer studies in Norway, Soviet Union, Seward Peninsula Alaska; caribou harassment
	16782-84			Calef	CARC	Bergerud's study in Newfoundland; Skoog's work in Alaska, re: caribou decline
	16789-90			Calef		Route preference - theory, research; Bergerud's work in Newfoundland; insect harassment
	16797-817			Calef Bergerud		Need for detailed demographic studies; jaw bone samples; CWS population data; need for information on disease; Kelsall's study re: Kaminuriak herd; predation monitoring of harvests; A. DeBock - Dempster Highway; disturbance studies; other herds
	16817			Calef		Dr. Kalen's studies of the impact of snow vehicles on wildlife
	16830-33			Bergerud Lent		Population studies, Nelchina herd by Leopold, Darling (1953); Elton, "Mice, Voles and Lemmings" - study of Newfoundland caribou herd
	16858-59			Bergerud Lent		Skoog's work re: Nelchina herd; Arctic herd, Mealy Mountain herd
	16861			Calef	CARC	Studies by DeBock, Dr. Klein, re: reaction of caribou to aircraft, altitude of aircraft
	16869-70			Calef		Population declines in various herds - Bluenose, 40-Mile herd; Skoog's thesis, 'The Biology of Caribou in Alaska'
	16872			Lent		Doyle, an early explorer, visiting a village noticed a vast number of skins
	16883-85			Calef Lent	CARC	Nelchina herd, study by G. Boss; 40-Mile herd; paper by Skoog
	16891-94			Lent		Study on calving areas of the Porcupine, Arctic, Prudhoe Bay caribou herds; Skoog's work

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111	16907-08	Jan. 16	IN	Calef Carter	CARC CAGPL	Data on Porcupine caribou herd by Renewable Resources, Biological Report Series
	16914-23			Calef Lent Bergerud	CARC	Calef, Skoog, studies of Porcupine herd calving grounds; Bergerud, Newfoundland herd; Surrendi and DeBock, wintering Porcupine herd
	16930			Calef Carter		Calef to EPB, impact on Porcupine herd
	16950-58			Lent Calef Bergerud		Only one biologist studying Alaskan caribou herds north of Yukon River; Calef's report to EPB re: protecting caribou; further studies of caribou to be done; more work done on grizzlies than wolves
	16975-85			Davies	MVPI	Problems with environmental impact statements, in appendix "A" of Davies' evidence; impact studies tell little of system sensitivities, siltation in streams as example; some social environmental studies done to justify route selection based on economic criteria; corridor, route selection study methods; on-site reconnaissance of possible corridors; selecting routes requires more detailed data, analysis
C-24	2425-26	Aug. 23	TL	Hushion	Foothills	Studies re: damage, contamination, restoration
C-25	2484-85	Sept. 8	FS	Dixon	NWT CC	Regional impact studies in Alaska, Fort Simpson re: impact multiplier
	2487-89			Dixon		Work force required during peak construction periods
	2565			Ivans	Citizen	1971 Financial Statement of Government of NWT
C-27	2752-53	Sept. 10		Erion	Citizen	Gemini North re: CAGPL's major economic consultant; Van Ginkle
C-28	2822-23	Sept. 10	Wr	P. Nahanni	Citizen	Rufus Moses research re: map of Fort Wrigley trappers, routes, animals trapped, mammals hunted, permanent and temporary camps
C-31	3029-30	Oct. 7	FR	Menez	Citizen	Sawmill study Fort Resolution
C-32	3070-71	Oct. 8		M. Beaulieu	Citizen	Pine Point Mines licence for pit de-watering re environmental study on effects of water, forestation deterioration
C-33	3123-24	Oct. 9	FS	Berger		Northwest Territories Association of Municipalities study re impact of pipeline on Northern municipalities
C-34	3256	Oct. 15	YK	Duesterhus	Citizen	Transcript, Volume 47, page 6232 re Templeton's definition of "impact"
	3258-62			Duesterhus		Department of the Environment reports re erosion in the Mackenzie Valley and on the North Slope; Report 74-29 re Yukon-Beaufort Sea Coast; Biological Report Volume 17 re braided streams and tundra, Volume 3 re Mackenzie Valley
				Deusterhus		Pipeline Development, 1973" re storm in the Mackenzie Mountains; "Hydrometric Data Collection in the Mackenzie River Basin" re erosion in Mackenzie Mountains
	3362	Oct. 16		Watson	Citizen	"The Fifth Disaster" from "National Indian Law Library Journal Announcements", January to March, 1975, Volume 3, No. 1
C-35	3400	Oct. 22	LI	Wheeler	Citizen	Frobisher Bay study on outside worker abuse of Native women
	3421			O'Connor	Citizen	Task Force Report on Business - Problems encountered by northern business men in obtaining contracts
C-36	3487	Jan. 28	In	B. Allen	Citizen	Regional Planning Committee re community development
	3527-28	Jan. 29		Sineok	Citizen	Hobart report - cultural replacement policy by churches
	3532-33			Sineok		Data shortcomings in Hobart Report
	3555			Binder	Citizen	Pimlott report on Beaufort Sea drilling
C-38	3628-30	Feb. 12		Berger		Brief summary of environmental studies evidence given at formal hearings
	3652-55			Allison	Citizen	"Pipeline Impact Anchorage" study on social impact of Alyeska Pipeline
	3667-69	Feb. 15		Berger		Beaufort Study Project re: potential for, impact of an oil well blowout

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C-39	3708	Feb.18	In	Robertson	Citizen	Studies on Impact Centre in Alaska, possibility in Inuvik
	3756-58			Usher	COPE/ITC	Map series showing maximum extent of hunting, fishing, trapping; land use; "Eskimo land use and occupancy in the Western Arctic"
112	17045	Jan.20		Bliss	GPC-D	Helios Hernandez, forest fires, Inuvik area
	17051			Bliss		Dr. G. Scotter 1970, reindeer herd range
	17064			Bliss		Slaney Reports, '72-'74 beluga whales arrival in Delta
	17078			Ballem	GPC-D	Slaney report, beluga whales in Delta area
	17082-94			Bliss		Sergeant, beluga studies, Somerset Island, Hudson Bay; studies needed re beluga in Delta area; Taglu gas development volume "Information in support of Land Tenure Agreement Application"; Gill, spruce regeneration after large number taken for pilings, research needed; University of Alberta, artificial green-house heating; University of Saskatchewan, compressor station exhaust to heat greenhouses; Helios Hernandez, assessment of landscape units, vegetation types
	17104-08			Bayly	COPE/ITC	Taglu gas development volume; research needed on horsetail in Delta, possible impact from toxic chemical spills
	17114-22			Bliss		E-SP report no. 74-42, D. Bissett, "Resource harvest - hunter-trapper in the Mackenzie Valley, 1974"; research to be done, impact of disturbance to calving caribou, reindeer; Russian studies, sedge-moss vegetation converted to moss by geese over-grazing; impact of toxic spills on vegetation
113	17130	Jan.21		Hobart	GPC-D	Research done by Hobart in north
	17139-43			Hobart		Honigman, "Arctic Townsman", 1967, study of Inuvik
	17159-72			Hobart		Claremont, 1963, "Deviance among Indians and Eskimos in Aklavik, Northwest Territories"; Parsons, study for DIAND, white attitudes towards natives; C.Y. Kus, '69-'70, Canada Manpower study, family income figures, NWT; Petroleum Industry Committee on Employment of Northern Residents, native employment figures, '71-'75
	17179-80			Hobart		Honigman, report on Inuvik, 1967, native children, school enrolment, dropout; Derek Smith, 1967, employment interests, occupational aspirations of Delta school children
	17186-87			Hobart		Study models; Hobart's research interests in north
	17245			Hobart		Hobart, "Inuit Employment, 1973-74, Coppermine, NWT"
	17253-65			Hobart		Hobart, second report to Gulf, native-employees for exploration work; evaluation of Nortran program; native school children occupational aspirations
	17267-75			Hobart		Study for Gulf on reactions of Coppermine workers to exploration employment; applicability to study impact of pipeline on Delta communities
114	17335-44	Jan.22		Bayly Mainland	COPE/ITC GPC-D-I	Borrow material inventory, Delta area by Arctic Petroleum Operations Association and DIAND; fish studies, Big Horn Point borrow site
	17377			Bayly		"Oilweek", 4/12/72, geopressure zones in relation to blowouts in gas wells
	17383-84			Bayly Mainland		"Interim Guidelines for the Disposal of Waste Fluids from Petroleum Exploration Drilling in the Canadian North"
	17410			Mainland	GPC-D-I	Mollard and Associates, gravel reserves in Delta area
115	17565	Jan.23		Guyn	GPC-D-S	Ice fog studies by Slaney
	17572-73			Stamberg	GPC-D-S	"Mackenzie Delta Gas Development System" by Delta Producers, 1975
	17591-92			Ballem	GPC-D	1974, Van Ginkel and Associates, socio-economic report on 16 Mackenzie communities; CAGPL will produce report in phase 4
116	17611	Jan.24		Scott	GPC-D-G	Environmental studies on ability of Liverpool Bay and Husky Lakes to accommodate traffic of module barges to Parsons Lake
	17617-18			Stamberg		Letter of application for land use permit to back-fill sumps

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	17630			Bayly Stamberg		Micro-wave system or Anik Satellite study
	17631-35			Scott Stamberg Scott	MVPI GPC-D-G	Joint air strip between GULF and CAGSL, necessity of permanent road, possible locations of airstrip and permanent road
	17645-55			Rempel	GPC-D-I	Environmental studies to assess effects of development by consultant, F.F. Slaney and Company
	17651			Rempel		Aerial and ground surveys, maps outlining areas of bird use
	17654			Rempel		Archaeological investigation by Fedirchuk, Millar
	17659-72			Webb	GPC-D	Effects of off-shore construction on whale distribution and behaviour, harvest rates of whales by natives, distribution and movement patterns, response to disturbance
	17675			Webb		Environmental Studies on reactions of grizzly bear to aircraft and people
	17704			Appleton	GPC-D-G	Studies planned to establish guidelines for chemical storage; surveys of barging effects on fish
	17731			Ballem Appleton	GPC-D	Slaney and Associates report on whales; Gulf's proposed study on barge activity and whales in Liverpool Bay
117	17757-58	Jan. 26		Ballem		Whale studies, white whale study, environmental impact assessment; summer environmental programs
	17761			Webb		Environmental study, fish in Harry Channel
	17764			Webb		Studies of sites within critical bird areas, Kendall Island bird sanctuary
	17768			Appleton		Arctic land use research program report on snowroad damage to vegetation
	17772			Appleton		Site-specific environmental program, inter-relationship between reindeer overwintering and drilling activities
	17773			Rempel Webb	GPC-D-I	Environmental statement of Arctic Gas's supplement to application, fishery area of Delta
	17776-78			Webb Rempel Wopnford Appleton	GPC-D-S	Fishery studies in Big Horn Point area
	17793			Goudge	MVPI	"The Study of the Distribution and Movements of Snow Geese, Other Geese and Whistling Swans on the Mackenzie Delta, Yukon North Slope and Alaskan North Slope in August and September, 1975"
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	17807-09			Rempel Appleton	GPC-D-I GPC-D-G	Studies on under-ice spills, Delta environmental protection unit, Beaufort Sea Environmental program; "Arctic Oil Contingency Plans for Gulf Oil Canada Ecological Evaluation"; Alaskan studies on spillage
	17810			Rempel		A.P.O.A. report on granular material in the Richards Island area
	17833-46			Bell	NWT-IB/MA	"Communities of the Mackenzie", Van Ginkel and Associates Limited; "Response to Information Request for Socio-Economic Supplementary Concerns"
	17846-48			Berger		Mainland's letter to Hancock, employment opportunities after construction
	17875-76			Wopnford	GPC-D-S	Study of impact of industrialization on health, mental health
	17879-80			Bayly	COPE/ITC	Carney-Gemini reports
	17884			Bayly		Hobart's study of Coppermine; Van Ginkel studies
	17887-88			Bayly		Report of Gemini-North, Social and Economic Impact of the Proposed Arctic Gas Pipeline in Northern Canada
	17894			Bayly	COPE/ITC	Gemini-North socio-economic assessment of Gulf, Imperial, Shell
	17904			Marshall	CAGPL	Report by acres of skill categories, availability of workers

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118	17918-19	Jan.27	IN	Bayly	COPE/ITC	Hobart studies; letters to and from R.C.M.P. "G" Division
	17931			Sider	GPC-D-G	Study on three main communities, emphasis on Inuvik, by Van Ginkel Associates
	17937			Bayly		Gemini North's report of social and economic impacts of proposed Arctic Gas Pipeline in Northern Canada re: impact of oil boom on Inuvik
	17945-46			Bayly		Gemini North report on Delta trappers
	17954-55			Goudge Sider	MVPI	Hobart's work, Gulf's approach to local labour markets in Coppermine
	17985-86			Wopnford	GPC-D-S	Van Ginkel's study of physical loading on communities; R.C.M.P. study of problems of proposed pipeline
	18031			Bayly Czaja	GPC-D-S	Mackenzie Delta development system brochure by producers
	18049-51			Bayly		Letter from Horsfield to Sam at Northern Assessment Group; reply to request for information on offshore drilling in Beaufort Sea
	18062			Bayly Horsfield	GPC-D-I	Emmerk contingency plan, "Preplanning for Emergencies", report by Daw of Imperial, overpressure; "Diary of a Dry Hole", Imperial Oil review
119	18177-78	Jan.28		Bayly Shaw	COPE	Forestry report by Northern Forest Research Centre, surface disturbances in Swan Hills oil field
--	18179			Shaw		Imperial table of breakdown of components of raw gas stream
	18204			Pimlott	COPE	Research by Arctic Biological Station of Fisheries Research Board of Canada on Arctic marine environments
	18208-33			Pimlott		"Oil Under the Ice", offshore drilling in the Arctic; paper by Yates "Industry - Government Co-ordination with Northern Communities"; "How Imperial Built the First Arctic Island" by J.G. Riley; report by Imperial "Offshore and Tidal Flat Artificial Island Construction, Mackenzie Delta-Beaufort Sea"; study by F.F. Slaney and Webb on environmental impact of Immerk Island construction; "Geopressure zones Throw Challenge to Drillers in Three Canadian Plays", geological formation pressures; "Mud, Weight Control in the Delta" by Daw;
	18248-53			Pimlott		"Energy Under the Seas"; Outer Continental Shelf Oil and Gans and Environmental Assessment publication, oil spills; "Environmental Effects of Petroleum Development in the Cook Inlet Area" by Evans, pipeline pollution
120	18260-308	Jan.29		Pimlott		Beaufort Sea program; "Arctic Poses Extreme Technical Challenges", by Jones in Petroleum Engineer, January 1975; research programs on seals, polar bears, snow geese, murre; Beaufort Sea study on phyto and zoo plankton; reports by Grainger and Percy, Arctic Biological Station; paper by Sprague for CARC workshop; cost of Beaufort Sea program; paper by Thornberg called "Global Marine's Drilling System for the Arctic Offshore"; publications on spill frequency, "Energy Under the Oceans", "Storms are a Major Cause of Mobile Rig Mishaps Offshore" in "Offshore" magazine; paper by Deju called "A World-wide look at the Occurrence of High Pressure, High Fluid Pressures in Petro-liferous Basins"
--	18313-38			Martell	COPE	Evidence-in-chief called "The Mackenzie Delta Wildlife - An Historical Review of Man's Impact"
	18347			Martell		Caribou studies by Calef
121	18360	Feb.10		Goudge	MVPI	Reports from Beaufort Sea Environ. Program: Near Bottom Currents and Offshore Tides, Huggett et al; Hydrodynamics of an Oil Well Blowout, Topham; Climate in the Beaufort Sea, Walker; Movement and Deformation of Land-Fast Ice in the Southern Beaufort Sea, Cooper

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121	18360-61	Feb.10	IN	Bayly	COPE/ITC	Evaluating Country Food in the Northern Native Economy, Dr. P. Usher; Oil Exploration and The Banks Landers, N. Simmons, T. Barry; The Application for Drilling Authority, Dome Gulf et al, Tingmiaik, K-91 and Dome Hunt Kopanoar, D-14, Vol. 2; Oil Spill Contingency Plan, Dome Petroleum Limited; Offshore Drilling For Oil in the Beaufort Sea, Nov. 27, 1975
	18369-87			Percy	COPE/ITC	Need for pre-spill baseline data, post-spill impact data on Arctic marine ecosystems; temperate sea oil spill studies; Blumer, Kittredge - impact (physiological, behavioural) of spilled oil in Arctic marine ecosystems
	18390-402			Grainger	COPE/ITC	Beaufort Sea Project - baseline aquatic ecosystem studies; plant, zooplankton quantities and distribution in southern Beaufort Sea; crude oil re impact on rates of nitrogen fixation of bacteria, denitrification, bacterial biodegradation potential, phytoplankton seaweed productivity
	18410-24-A			Percy	COPE/ITC	Benthic organisms - impact of exposures to oil contaminated sediments; Blumer - lobsters re attraction to oil; degradation of oil trapped in sediments; Freearde & Conover - redeposition of oil contaminated sediments; marine organisms - tolerance to short-term lethal oil exposure, sub-lethal oil exposure and associated physiological disorder; responses; need for further oil impact on Arctic marine ecosystems studies; American, Russian marine research programs
	18424-B-25			Stein	COPE/ITC	Main objectives of Environmental-Social Committee's Delta fish resource studies; results from Beaufort Sea study; Beaufort Sea Project B-2, Percy et al; Beaufort Sea Technical Report no. 8, Percy; Beaufort Sea Project Technical Report No. 6, Kendel et al, 1976; Beaufort Sea Technical Report No. 7, Galbraith, Hunter
	18435			Stein		Resource monitoring studies to identify environmental problems, oil persistence in organisms, water
	18439-44			Barry	COPE/ITC	Studies - bird populations, nesting, molting sites, migration routes used in the Beaufort Sea and littoral zone, Arctic Islands; survey methods used to determine migrant populations, pollution sensitive areas - ice leads, nesting, staging areas
	18450			Barry		Clean-up, rehabilitation of oiled seabirds
	18458-61			Barry		Taglu oil well study - effects of noise levels on wildlife
	18466-87			Sergeant	COPE/ITC	Beaufort Sea Inquiry - white whale migration route, herding behaviour; Cunningham: Inlet whale population aerial survey photography; migration in leads to Delta calving sites; Slaney studies - correlation white whale calving site, warm water sources; whale sensitivity, behaviour re human noise, activity
--	18482			Sergeant	COPE/ITC	Impact on whales and whale hunting, Slaney 1975
122	18489-94	Feb.11		Sergeant		Slaney studies - whale behaviour in Mackenzie Bay; Smith, Geraci - impact of oil intake on whales, seals (general); research recommendations re impact of water-borne sounds on whales
	18498-518			Smith	COPE/ITC	Summary of studies on ringed bearded seals - movements, population, Inuit community utilization, underwater sound recordings, role in marine ecosystem, mercury levels in marine mammals, breeding habitats, effect of contact with oil; summary of studies 1971-74 on seals in Beaufort Sea area - blood studies, effects of immersion in, ingestion of crude oil, population fluctuation, further study recommendations
	18521			Sergeant		Slaney report - Inuit whale hunting in Kugmallit Bay
	18530-47			Stirling	COPE/ITC	Summary of studies on polar bears - population dynamics, areal fidelity and population exchange, winter migration habits, methods of hunting seals, research recommendations - polar bears, seals, Arctic fox

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	18565			Barry	COPE/ITC	Bird utilization of ice leads
	18583			Barry	COPE/ITC	Kendall Island bird sanctuary boundary studies, 1958
	18592-94			Evans Barry	CARC	"Likely Effects of Oil in the Canadian Arctic", 1970, Barry - oil leakage into major Mackenzie Valley river systems - impact on waterfowl
	18597-99			Barry		Bird reaction to aircraft activity
	18601-02			Stein	COPE/ITC	Seismic techniques used in Beaufort Sea - impact on fish
	18606-11			Grainger	COPE/ITC	Nutrient content sampling in Beaufort Sea, coastal areas; lack of research - inhibition of plant production in oil covered sea
	18614-18			Sergeant	COPE/ITC	Stephansson - whale feeding in leads; development of an international co-operative research program; Slaney reports 1955, 1975 - distribution of whale catch in Delta region; Beaufort Sea oil impact on whales studies
	18633-41			Stirling Percy Smith	COPE/ITC COPE/ITC COPE/ITC	Value of DOE studies - Arctic fox in Banks Island; types of oil used in impact studies; impact of oil on seal birth lairs
	18642			Marshall	CAGPL	Slaney report, 1975; "1975 Summary Report on Greenhouse Experimentation and Seed Increase Projects" by Northern Engineering Services; "A Report on a Shallow Seismic Survey in Three Areas of the Mackenzie Delta", 1975, by Kenting
	18654-56			Percy		Beaufort Sea Program - failure to conduct oil under ice bio-degradation studies; Balaena Bay study
	18662-70			Grainger Percy		Time required for further oil impact studies in Beaufort Sea; American Beaufort Sea Program; bio-degradation of oil under ice studies; oil compounds - passage in food chains, pollution biology - sublethal effects and behavioural responses
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	18690-91			Sergeant	COPE/ITC	Gunn Report, 1975, - scheduling of summer construction in Delta
	18695-718			Smith Stein Stirling	COPE/ITC COPE/ITC COPE/ITC	Site-specific study - impact of delta feederline system on fish stocks; "Environmental Assessment of Cross-Delta Route", CAGPL - impact on fish; "Acute Toxicity of Petrochemical Drilling Fluids, Components And Wastes on Fish", by Dr. Falk; Beaufort Sea Program - study critical coastal fish habitats, containment of oil spills in lagoons; "Offshore Drilling For Oil in the Beaufort Sea; a Preliminary Environmental Assessment", Dec.19, 1975, Dr. Millen - economic value, quantity of seal, polar bear catch; seal tagging program - movements in Beaufort Sea, Amundsen Gulf; mercury levels in seals in Holman Island area; Leffingwell - number of female polar bears killed in annual hunt
123	18744-48	Feb.12		Yates Elkin	MVPI MVPI	Studies conducted for regional planning in Delta
	18753-59			Yates Elkin		Completion dates of regional planning studies, reports; "Energy in Canada's North, the search for Oil and Gas", in Nature, July/September, 1972 - offshore drilling in the Arctic - issuance of permits
	18814-19			Elkin		Community planning options report - sources of background data
	18841-44			Yates Elkin		Studies - enactment of Federal northern development policy; bodies involved in studies on northern oil development
	18851-53			Yates		"Regional Impact of a Northern Gas Pipeline", Vol. 6, E-SP - preferential employment policy for native Northerners

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	18922-9018			Milne	COPE/ITC	Beaufort Sea project - summary, of preliminary environmental assessment published in technical report #39 - oil well blowout scenarios for 3 sites in Beaufort Sea
	19005-16			Evans Milne	CARC	"Beaufort Sea and Mackenzie River Delta Environmental Studies", Beaufort S a Technical Reports - information gaps, identification of areas requiring further study; impact of marine oil spillage on climate - Campbell and Martin paper
125	19026-29	Feb.14		Shearer Lewis	COPE/ITC	Beaufort Sea projects, Northern Engineering report - gross characteristics of sediment in Shallow Bay
	19036-53			Shearer Lewis		Equipment used in scour definition studies; "A Report on a Shallow Seismic Survey in Three Areas of the Mackenzie Delta" - ice scour, scour holes in Shallow Bay
	19070			Lewis		Need for studies on Delta sediment compaction
	19120-22			Snow	COPE/ITC	Studies on impact oil on benthic communities in lakes, rivers
	19087-118			Pettigrew	COPE/ITC	"Oilspills and Spills of Hazardous Substances," by Water Programs, U.S. Environmental Protection Agency, Washington D.C., 20360; "Departmental Contingency Plan, Environmental Emergency" by E.P.S. June 15, 1973; "Review of Petroleum Spill Containment Dykes In the North" by Environmental Emergency Branch Edmonton, September, 1974; "Guidelines on The Use and Acceptibility of Oil Spill Dispersants", by Environmental Emergency Branch, Ottawa, August 1973- material employed in submission
	19129			Snow	COPE/ITC	Whale skin sensitivity to oil
126	19148-50	Feb.16		Pettigrew	COPE/ITC	Report on interprovincial pipeline failure
	19164-76			Snow Logan Pettigrew	COPE/ITC	Canmar contingency plan - feasibility, effectiveness of plan
	19211			Pettigrew	COPE/ITC	Balaena Bay, experiment - migration of oil through brine channels in ice; present research - dispersant toxicity
	19233-35			Pettigrew		Design of dykes - containment of spills from storage tanks
	19246-52			Snow		Effects of suspended sediment on fish food organisms in Harris, Rengleng Rivers
	19270-93			Snow Logan		"Review of Petroleum spill containment dykes in the North"; A.P.O.E. report on permeability problems in sumps; study on ice deflecting barrier which is permeable to oil; use of underwater domes oil containment; eutrophication related to addition of crude to water; rates of oil weathering; Caribou Bar Creek experiment - influence of river bed substrates on benthic organism recovery from oil exposure; "The Design for Environmental Impact Studies With Special Reference to Sedimentation of Aquatic Systems in the Mackenzie And Porcupine Drainages" - potential for use of annual maximum discharge being able to remove added sediment from river substrates as a criterion for protecting fish - habitats, food supply
127	19356-62	Feb.17		Longlitz	CARC	Multiplicity seismic program, research to approve, proposed study; Environmental Assessment Group; Arctic Land Use Research program, seismic report
	19379-80			Longlitz	CARC	Caribou Hills Summer Seismic Program, experimental
	19391-410			Monaghan	COPE	Urquhart, NWT Fish and Wildlife Service, study of impact of oil exploration on Banks Island; Martin, Fish and Wildlife Service, impact of pushups on muskrats; McCourt, Surrendi, DeBock, studies of grizzly bears and aircraft disturbance; Slaney, Peary caribou and vehicles; Urquhart, Slaney, Beak, musk-ox and seismic, camps and aircraft;
	19411-13			Monaghan		Banks Island study, Rat study, funded by C.W.S. and NWT Fish and Wildlife
	19418			Monaghan		Study of muskrat disturbance, impact of seismic activity

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127	19435-40	Feb. 17	IN	Monaghan	COPE	Seismic and muskrat reproductive rates, Martin's study; Slaney report on Peary caribou; Urquhart's work on response of caribou to seismic on Banks Island; Hoffman, disturbance to caribou
	19455-70			Trudeau	COPE	Explosives and fish, report by Seismic Seminar; "The Effects of Dynamite Explosions on Fish", by Knight; "The Effects of Underwater Explosions on Swimbladder Fish" by Christian; Falk's study re detonation speed; effects of explosives on sea mammals
128	19520	Feb.18		Trudeau		"Guideline for the Protection of the Fish Resources of Northwest Territories During Highway Construction and Operation" by Dryden and Stein
	19532			Milne	COPE	"Oil, Ice and Climate in the Beaufort Sea" by Walker
	19559-63			Goudge Milne	MVPI	Article by Campbell and Martin, impact of oil spills on climate
	19564-66			Milne	COPE	Brackell's study of Arctic wildlife value to humans
	19570-88			Milne		Comments of Canmar on Milne's paper
129	19633	Feb.19		Goudge	MVPI	"Impressions on the Construction of the Pointed Mountain Gas Pipeline" by Land, Dean, Brant; "Northern Yukon Fisheries Study - 1971 to 1974" Vol. 2, compiled by Steingenberger, Elsen, Bruce and Yole; "Effects of Changing the Duration of Pipeline Construction on Selected Variables" by M.P.S. Associates of Winnipeg
	19656			Gibbs	Foothills	"Consolidated Filing, and Third Amendment to Applications", Arctic Gas Exhibit 452, granular material in Mackenzie Delta
	19673-75			Speller	MVPI	Arctic Land Use research program
	19697-704			Inglis	MVPI	Ripley, Klohn and Leonoff study, Kind and amount of resource material available
	19722-30			Marshall Inglis	CAGPL	"Gravel Inventory Survey, Richards Island and Adjacent Areas" by Mollard and Associates Ltd., Exhibit 437
130	19740	Mar.16	YK	Marshall		Hemstock, "Corridor Concept for Parallel Transportation and Communication Modes"; Avcon Aviation Consultants "Historical Activity Data, Mackenzie Valley Corridor"
	19745			Williams	CAGPL	NES study of cross-Delta routing, 1973
	19758-59 19763-67			Hollingshead Minning	CAGPL CAGPL	Field investigations along cross-Delta route Corrections to tables on cross-Delta route borrow sources
	19776-77			Williams		Snow and ice road construction, less water required
	19783-95			Williams		Initial study of cross-Delta route as an alternate, volume filed describing cross-Delta route; "Supplement to Applications" by Hurd, uniqueness of route; site specific studies, borrow study, excavation study, ice breakup, completion of studies
131	19842-46	Mar.17		Williams Clark	CAGPL CAGPL	Test pit in Shallow Bay to determine soil conditions for ditching
	19867-70			Williams		Rymes' report on ditcher machine teeth; producing privileged reports
	19886			Clark		Tests to show pipe burial depth at river crossings done in lab
	19901-10			Williams		Inuvik snow road study shows water requirements reduced; water availability studies, North Slope, now being done; snow fence tests at Barrow
	19920-26			Williams		Snow making machinery tests; use of rologons, early movements in North, report by Muskeg Research Institute
	19932-34			Williams		Snow making machine tests; wind-chill studies
	19959-60			Williams		Test show gravel use unlikely for backfilling Delta river crossing trenches
	19976			Hollingshead	CAGPL	NES, Oct. 1975, "The Preliminary Design of Four Major Water Crossings on the Cross-Delta Pipeline Route."
	19998-99			Berger		Brown and Co., feasibility study for APOA, pipelines from deep water wells, Beaufort Sea

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132	20011-14	Mar. 18	YK	Williams	CAGPL	No CAGPL study done on noise emission of all terrain vehicles; studying potential water sources on Delta for fish use
	20016-17			Williams		Studies done in choosing cross-Delta route
	20035			Clark		Frost heave tests, cross-Delta route
	20058-64			Cooper	CAGPL	Kenting sounding study of bottom of Shallow Bay
	20069			Cooper		Study for Alyeska, effects of exposure of pipe on river bottom
	20077-78			Hollingshead		Prof. Mackay's analysis of Shallow Bay bottom soil
	20086-91			Goudge Hollingshead	MVPI CAGPL	"Preliminary Design of Four Major Water Crossings on the Cross-Delta Route", Sept. 74; soundings done in Aug. 75
	20128-33			Williams Minning	CAGPL CAGPL	Study of Axe Point as staging area; borrow material studies by Mollard; Ripley, Klohn Leonoff; cross-Delta route
	20138-40			Minning		Ripley, Klohn, Leonoff study of borrow sources, Delta; other studies
133	20118	Mar. 23		Marshall	CAGPL	Availability of report on oil spill contingency plans
	20127-58			Environmental Panel	CAGPL	On cross-Delta route
	20188			McCart	CAGPL	Little fish information available on Barry route
134	20220-22	Mar. 24		Jakimchuk	CAGPL	Slavey report, grizzly bears on Richards Island Hawley, muskrats in Delta
	20236-42			Webb	CAGPL	Whale calving, West Mackenzie Bay, movements into Shallow Bay
	20253-55			Webb		Brodie, 1972, whale behaviour; Webb, 1975, whale reactions to disturbances
	20261			Webb		CAGPL studies take into account cumulative impact on whales of various activities
	20267-74			Webb		CAGPL studies of whales in Delta area do not follow late summer dispersals; Dr. Sergeant's whale studies; Doan, whales in Churchill River estuary; artificial islands, 1972 report; Brodie report
	20280-320			Environmental Panel	CAGPL	Reports relied on for evidence of panel - "The Vegetation of Mackenzie Delta Area", Reid and Calder, Dec. 1975; "Site Seeding Tests in the Mackenzie Delta Region; reports on birds, fish and mammals done in 1975; "Whale Studies in the Mackenzie Estuary 1972-1975" (paraphrase of titles); studies by CAGPL and Brunskill, benthic organism distribution in Delta channels; studies to be done on fish in Delta; studying lake crossed by cross-Delta route; whale studies by Slaney, Sergeant, McEwen, Manning and MacPherson
	20357-60			Environmental Panel		Studies of cross-Delta route
	20375-78			Webb	CAGPL	Disturbance of whales, behaviour
	20385-90			Webb Jakimchuk	CAGPL CAGPL	Disturbance of whales; alignment surveys, July 1975 re: mammal impact, cross-Delta route
135	20425-26	Mar. 25		Marshall	CAGPL	Aquatic Environments Ltd., "Water Availability Along the Arctic Gas Pipeline Route, Prudhoe Bay to Mackenzie Delta", "Aquatic Monitoring of Shallow Bay Trenching Experiment"; Sidey, Sept. 26, 1975, "Report on Pipeline Noise Studies"
	20434-41			Jakimchuk Gunn	CAGPL	Studies of traditionally used land cross-Delta route; Biological Report Series, vol. 30
	20469-70			McCart	CAGPL	CAGPL environmental assessment, Dec. 1975, fish overwintering sites; work to be done
	20476-79			McCart		Recommended studies of possible fish habitats, cross-Delta route
	20501-08			McCart Jakimchuk Gunn	CAGPL	Information on Niglingak supply lateral in Slaney reports; studies to be done

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	20574-82			Sprague	MVPI	Water quality studies for pipeline; case study in Ontario; Water Quality Criteria 1972; pollution effects on fish
	20597-601			Sprague		Impact of oil on lobster larvae; EBP report on sewage disposal; "Water Quality Criteria, 1972"
136	20612	Mar. 26		Jakimchuk	CAGPL	CAGPL Biological Report series vol. 9, fox dens, North Slope
	20618-22			Dabbs Marshall	CAGPL CAGPL	Biological Report Series, vol. 1; work to be done if assessments of "DEW line" and Barry routes are to be made
	20630-35			Sprague	MVPI	Studies of effects of oil refinery wastes on aquatic life
	20635-50			Sprague		Effects on aquatic life of oil refinery wastes; study of construction of stream crossing in Ontario; "Water Quality Criteria, 1972"; Biological Report series vol. 15; Sprague's aquatic studies, toxicity of mining wastes, drilling fluids in NWT
	20672			Sprague		"Water Quality Criteria, 1972"
	20678			Sprague		"Water Quality Criteria, 1972" guidelines appropriate for setting up standards, regulations
	20699-711			Peet	MVPI	Studies done of NWT native domestic fisheries by Bond '73, Bissett '74, Withler '75, Abrahamson, Bissett, Higgins, Hunt et. al., Stein, Villeir; Barlishen and Webber, Holmes Creek fishery; McLeod, commercial fishery marketing
	20709-10			Peet	MVPI	Effects of construction on fisheries, Bissett; Stein; Gemini North
	20721			Peet		Evidence based partly on information from Stein's fishery report
	20735-45			Peet		Studies of fisheries by Slaney; Jessop and Stein; Bissett; others
137	20791-92	Apr. 5		Marshall	CAGPL	Report by Aquatic Environments Limited, "Effects of Methanol on the Fertilization Process of Chum Salmon"; progress report on effects of Methanol on the microflora of Arctic Soils by Bryant; progress report by University of Alaska, "Tundra Rehabilitation research, Prudhoe Bay and Palmer Research Centre"; report of Aquatic Environments Limited, "Water Availability along the proposed Arctic Gas Pipeline Route from Prudhoe Bay, Alaska to the Mackenzie Delta, NWT"
	20820-24			Davies	MVPI	Funding of environmental studies; deciding what to study
	20840			Goudge	MVPI	"North of 60, Mackenzie Valley Pipeline Inquiry, Summary of Proceedings, Vol. 1, Construction and Engineering", DIAND
	20842-53			Davies		Northern Ontario Studies, Lively to Whitefish section of Highway 17, mining study; field and laboratory experiments, impact of siltation on fish; cost of environmental studies
	20863			Marshall Davies		Biological Report series
138	20925	Apr. 6		Stephen	MVPI	James Bay Hydro Commission study on snow goose harvest by Indian hunters
	20931			Stephen	MVPI	Migratory Birds Research and Surveys, program of Migratory Birds Division
	20943-44			Norton	MVPI	"Pipeline surveillance from the inside: Fish and Wildlife Perspectives"; speech by Moolin, Alyeska Pipeline Service Company; Associated Press wire story on Moolin's speech; articles in "Anchorage Sunday Times" on pipeline welds and haul roads
	20973			Norton		Speech by Moolin, senior Alyeska project engineer re oil spills; article in Alaskan magazine by Cross on driving a fuel truck

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	21026			Mossop	MVPI	Ecological study of Old Crow Flats, census data on Waterfowl population, moose and fur bearers
	21034-35			Stephen		DeBock, Surrendi research on Porcupine herd
139	21115-43	Apr. 7		Simmons Norton	MVPI	Report on formation of a Mackenzie Valley Authority; report by B.Yates "A report on the Trans-Alaska Pipeline as it relates to planning for a regulation of construction on a Mackenzie Valley gas pipeline"; "Oil exploration and the Bankslander, a lesson in national priorities" - social impact - Bankslanders' mistrust of DIAND officials, report recommendations
	21173-74			Goudge	MVPI	Dr. Lewis's study - coastal erosion, sedimentation at Kay Point
	21187-88			Heacock	MVPI	MacPlan study - impact of oil industry on Transport Canada commitments in the north
	21213-31			Nicol	COPE/ITC	Official Japanese Government report "General investigation into the environmental influence of the Mizushima Oil Spill of 1974" - controversy over report - accumulated environmental impact data
	21239			Nicol		Figures from Mizushima Oil Spill report - oil recovery, equipment, ships, aircraft used
	21266-67			Nicol		Research in Canada re oil recovery devices
140	21277	Apr. 8		Goudge	MVPI	Author correction - Exhibit #547 report by Gee
	21284-85			Nicol Hollingwoth	Foothills	Nicol report - role of Environmental Emergency branch of DOE in contingency planning
	21289-90			Nicol		Report by DOE listing oil removal devices
	21312-A			Usher	COPE/ITC	"The Banks Island Conflict" prepared by DIAND
	21327-36			Usher		Studies conducted by CWS - impact of exploration on Banks Island wildlife nature of tests conducted by oil companies; report in "Globe and Mail" Oct. 13/1970 - attitude of DIAND re Banks Island conflict, agreement signed with oil companies; gravity surveys - late consultation of Bankslanders; letter - S. Hodgson to D. Hunt, agreements between oil companies Bankslanders broken; letter - Hunt to Yates; speech by Hunt - understanding between oil companies, Bankslanders
	21346-55			Usher	COPE/ITC	"Oil Exploration and the Bankslanders" by N. Simmons, T.W. Barry; "Preliminary Report on the apparent impact of seismic exploration on Arctic fox trapping on Banks Island, NWT" by P.J. Usher; letter from R.G.S. Currie to Sachs Harbour Settlement Council, memorandum - Dr. Pimlott to Sachs Council, Beaks reports re Panartic desire to schedule year-round exploration activities
	21356-68			Allison	COPE/ITC	Cape Parry, Balaena Bay oil spill experiments; Environmental Protection Service - proposal to conduct oil spill studies beyond landfast ice
	21369-88			Usher		GPC-D reports, proposal re gas gathering and processing facilities in delta, press release concerning proposal, internal memorandums - terms of reference legitimacy of MDDGAG
	21389-402			Noble	COPE/ITC	Letter - J. Vick to Territorial Government - MDDGAG report - misinterpretation of statements made by Alaskan informants; documents prepared for communities "Mackenzie Delta Regional Plan and Hydrocarbon Resource Development; A scenario for the Mackenzie Delta; letter from superintendent of Inuvik local government to Director of local government at Yellowknife and reply; MDDGAG-Alaska report - failure to include full range of potential impacts

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	21432-38			Usher		Nature of social impact studies conducted by government, industry; static dynamic socio-economic impact studies
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	21446-51			Allison Cournoyea Usher	COPE/ITC COPE/ITC COPE/ITC	Independent assessments of environmental research proposals; Usher report on Banks Island
	21456-57			Usher		Confidential research papers given to industry by numbers of government
141	21478-79	Apr. 9		Usher		Similarities between ESP-73-33 report by Usher and section 14-C of the regional socio-economic statement of CAGPL
	21485-92			Usher		Need for impact assessments at project proposal stage; bias in impact assessments, individual party assessments
	21511-13			Allison		Conducting of impact research by independent consultants
142	21560-93	Apr. 13		Bayly Virtue Giroux	COPE/ITC Nortran Nortran	Dr. Hobart's evaluation of the Nortran training program
143	21812-14	Apr. 14		Fumoleau	NWT IB/MA	Report of a Select Committee of the Senate as the Mackenzie District, 1888; a Privy Council Report of 1891
	21822			Fumoleau		Memorandum from the Commissioner of the Northwest Territories; excerpts from Hansard on oil discovery NWT
143-A	21854			Russell	NWT IB/MA	Laskin's text - Canadian Constitutional Law
144	21886-90	Apr. 15		Sanders	NWT IB/MA	Blackstone, Commentaries on the Law of England 1765; Sir George Cornwall's legal text, 1841
	21919-21			Sanders		Report of Select Committee on Aborigines of the British House of Commons, 1937; Merivale's "Lectures On Colonialism and the Colonies"; Dr. Anthony Hooper's study, Indian land titles and the Hudson's Bay Company
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	2128-30			Sanders	NWT IB/MA	Carrothers Commission of 1966, review of government in NWT
	21937			Sigler Sanders	NWT CC	Carrothers Commission of 1966, review of government in NWT
	21972			Saul	NWT IB/MA	Poem by poet of Mozambique
	21979-88			Saul		Franz Fanon "The Wretched of the Earth"; J. Nyerere, "Economic Nationalism"; Richard Barnet and Muller, Global Reach
	21993-99			Saul		Barraclough, article in the New York Review of Books; writings of J. Nyerere
	22039-42			Bean	NWT IB/MA	Commissioner's Annual Report, NWT 1972; Hugh Brody "The People's Land"
	22045-49			Bean		Letter from NWT Commissioner to Minister, DIAND, October 1971
	22059			Bean		Van Ginkel Report
145	22095-96	Apr. 26		Brownstone	NWT IB/MA	Oxfam Policy Paper on International Development, 1972
	22102			Brownstone		Report of Janet Mondlane of the Mozambique Institute to Oxfam, 1973
	22119-20			Clarke	NWT IB/MA	Quote from Chief Tururin of the Pataxo Nation, Brazil; Article in "Engineering and Mining Journal" February, 1972; Article in "Metals Week", Dec. 16, 1974
	22126-30			Clarke		Article in "Financial Times of London" Sept. 23, 1975; quote from Governor of Roraima Territory, Brazil; quote from Brazilian Minister of the Interior; quote from Villasboas, Director of Xerger National Park, Brazil; quote from Deputy Santana;
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	22147-48			Clarke		Professor Larry Pratt, background study done for the Churches
	22154-55			Clarke		Study done by Larry Pratt; government guarantees on pipeline project
	22198			Clarke		1973 Policy Report of the Department of Energy, Mines and Resources
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	22250			McCullum		"Lime Green Brochures" issued by Premier's Office, Manitoba
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	2269			Jones	NWT IB/MA	Quotation from Chief Seattle of Duwamish League, 1854
	22278			Jones		Quotation from Chief Seattle
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	22340-41			Page		Petition of grievances sent by Riel to federal government in 1885
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	22423			Richardson	NWT IB/MA	Reporting figures on hunting, Harvey Feit, James Bay
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	22492-504			Nahanni		Land Use and Occupancy Research, study made on traditional and present land use, NWT hunting trapping, DIAND, NWT IB/MA
	22498-504			Nahanni		Response to interviews for the Land Use and Occupancy Research recorded on maps, hunting and trapping travel routes
	22504-22			Nahanni		Study on Land Use and Occupancy Research, Dene NWT, hunting, trapping
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	22606			Nahanni		Land Use and Occupancy Research, Dene hunting and trapping land use
	22625-26			Berger		Maps relating to land use for hunting, fishing, from community hearings will be taken into account
	22632-69			Rushforth	NWT IB/MA	"Recent Land Use by the Great Bear Lake Indians" by S. Rushforth
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	22760			Ritter		"The Golden Grindstone", by Graham
	22770-73			Ritter		Slobodin's study, Peel River history
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	22826-29			Simpson		Quotation from anthropologist, Melville Herskovits; article by historian Hugh Trevor-Roper
	22830-31			Simpson		"Northern Realities" by Jim Latz
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	23055-61			Irving		Jacques Cinq-Mars, "Preliminary Archaeological Study of the Mackenzie Corridor," Final Report 1976
	23065-68			Irving		Cinq-Mars, identification of archaeological sites
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	23305			Jacquot	CYI	"Together today, for our children tomorrow", outline of Yukon Indian land claim position
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	23458-62			Sharp		"Regional Impact of a Northern Gas Pipeline" by the Economic Staff Group
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	4210-14			Schwartz	Citizen	Brodie's report on whale movement in Beaufort Sea shelved by Slaney Research Associates, Quote from "Tuktoyaktuk History"
	4231	Mar. 9		Usher		"Eskimo Land Use and Occupancy in the Western Arctic" by Usher
	4285			Berger		Reference to Dr. Schwartz's submission re Brodie's study of whales shelved by Slaney Associates, validity of allegation
	4290-92			Norberg Berger	Citizen	Studies on bowhead whales in Beaufort Sea by Sergeant, Webb, Brodie
	4327			V. Steen Hnatiuk	Citizen GPC-D-G	Studies on burying the pipeline
	4332			V. Steen Horsfield	GPC-D-I	Exploration work on underwater pipeline
	4337-39			Hnatiuk	GPC-D-G	Feasibility studies on monopods; study on burying pipeline by R.J. Brown for members of Arctic Petroleum Operators Association
C-45	4353	Mar. 10		Carter	CAGPL	Slaney and Company's report (including Brodie's study) entitled "Environmental Impact Assessment, Immerk Artificial Island Construction Mackenzie Bay, N.W.T."
	4416			Berger		Quotes from Slaney's report re whale sightings
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C-48	4701-02	Apr. 30	FS	Berger		Letter from Bob Stevenson re what he will say at hearing in Fort Providence
	4704-05			R. Brunt	Citizen	Letter from Hodgson to Parker, from Symonds to Brunt re wolf-bison study
	4722			R. Brunt		CWS Report on buffalo killed by government to stop spread of anthrax
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	4794-96			Gallon	Citizen	Studies on the north; "National Analysis of Trends and Emergencies", government statistics on oil spills
	4804-05			Spong	Citizen	Technical Report No. 39 of the Beaufort Sea Project
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	25937-40			Usher		Statement, Deputy Minister of Northern Affairs, 1963; quotation from Professor J.R. Mallory
	25944-48			Beakhust	COPE/ITC	Advisory Commission on the Development of Government in the NWT headed by A.W.R. Carrothers
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	27401			Robinson		"Survey of Indians in Canada", Hawthorne, 1969; "First International Conference on Cross-Cultural Education in the Circumpolar Regions", 1961; "Report of the International Commission of the Development of Education" or "Learning to Be", UNESCO; The Survey of Education, Department of Education Study of Northern Education, 1972; "The Northwest Territories May Lead the Nation, University of Saskatchewan"; "Northian" magazine: "Time" magazine, Feb. 4, 1974; Letter by Button about education in north signed by director of Education, March 17, 1972; Jean Chretien, statements to standing Committee of the House of Commons on Indian Affairs and Northern Development, March 1973
	27413			Robinson		"The Poverty Wall"; "The Real Poverty Report"
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C-7	649	June 24	F.F.	Nahanni		Field work, land use research program
C-10	894	June 26		R. Clement	Citizen	Government programs; housing grants
C-12	1067-77	July 9	F. McP.	N. Colin	Citizen	Land use maps research
C-13	1245-47	July 10		J. Martin	Citizen	Recommendations of residents of Fort McPherson to Gemini North
C-14	1288	July 11	O.C.	P. Lord	Citizen	Research on caribou, Old Crow area
C-16	1573-74	July 13		H. Richter	Citizen	Some researchers have little consideration for people in communities
	1603-06			B. Sharpe	Citizen	Local people did survey on opinions on impact of the pipeline on Old Crow
C-17	1704-14	July 16	F.L.	P. Gardner	Citizen	Linguistic anthropological study
	1741-49	July 17		J. Christian	Citizen	Linguistic anthropological study
C-19	1861-70	Aug. 6	FGH	J. Louison	Citizen	Klohn Leonoff consultants to Foothills; application for land use permit for work at Fort Good Hope
117	17879-80 17887-88	Jan.26	IN	Bayly Bayly.	COPE/ITC	Carney - Gemini reports, social and economic impacts Report by Gemini North, Social and Economic Impact of the Proposed Arctic Gas Pipeline in Northern Canada, unemployment
	17894			Bayly		Gemini North, socio-economic assessment of Gulf, Imperial and Shell
118	17937			Bayly		Gemini North Report of social and economic impacts of proposed Arctic Gas Pipeline in Northern Canada, oil boom in Inuvik
	17945-46	Jan.27		Bayly		Gemini North Report on Delta trappers
157	24086	July 5	YK	Hobart	CAGPL	Gemini North, studies of family and per capita income in region
	24136			Berger		Resentment of Fort Franklin towards report
158	24241-71	July 6		Trusty	CAGPL	Boreal Institute, study on Socio-economic impact; Van Ginkel study, "Communities in the Mackenzie: Effects of the Hydrocarbon Industry"
	24272-91			Trusty		Gemini North research, current value of alternate fuels
168	26106-07 26190-92	July 22		Brody Brody	COPE/ITC	Kinds of sociological investigations Permission needed from territorial government; very helpful to have permission from community
171	26582-90	Aug. 17		Dixon	MVPI	Fairbanks North Star Borough Assembly, meeting to establish Impact Information Center; description of methods of gathering data
	26595-600			Dixon		Suggestions for establishment of an Impact Information Center
	26608-619			Dixon		Alaska, problems of getting information from pipeline and government; suggestions to improve data gathering and information flows
	26619-29			Dixon		Fairbanks, Information Impact Center, funding; local hire, minority hire; community planning
	26673-96			Dixon		Alaska, need for comparative information, need for baseline data; problem of bias of sponsor, problem of social indicators
172	26698-703	Aug. 18		Dixon		Tanana Chiefs Association could collect data re social impact in communities
174	27105	Aug. 20		Goudge Lainsbury	MVPI NWT/AM	Gemini North figure of average household size of employees with skilled jobs
176	27372-77	Aug. 24		Button	COPE/ITC	Gemini North, "Social and Economic Impact of Proposed Arctic Gas Pipeline in Northern Canada", "Socio-Economic Overview of the Mackenzie River Corridor, education system

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178	27612-13 27707 08	Aug. 26	YK	Pritchard Runge	MVPI MVPI	Use of Gemini North material for study Gemini North, population growth projections
179	27746-51	Aug 27		Runge		Gemini North, employment and population multipliers
180	28035	Sept 7		Goudge	MVPI	Gemini North report, "Trade Unions in Canada and the Northern Resident"
181	28077 28090 28098-99 28103	Sept 8		McCambly McCambly McCambly Goudge	MVPI	Gemini North, possibility of local residents stay at home for hiring and working Gemini North, agree with step procedure in training program Gemini North, pretraining counselling program Gemini North, agree with Gemini North recommendations for dispatch system
182	28366-67	Sept 9		Clarke	COPE/ITC	Gemini North's report on certified tradesmen in Inuvik, Tuktoyaktuk, and Fort Simpson
179	27746-51	Aug. 27		Runge	MVPI	Gemini North, employment and population multipliers
180	28035	Sept. 7		Goudge	MVPI	Gemini North report "Trade Unions in Canada and the Northern Residents."
181	28077 28090 28098-99 28103	Sept. 8		McCambly McCambly McCambly Goudge McCambly	MVPI	Gemini North, possibility of local residents stay at home for hiring and working Gemini North, agree with step procedure in training program Gemini North, pre-training counselling program Gemini North, agree with Gemini North recommendations for dispatch system
182	28366-67	Sept. 9		Clarke	COPE	Gemini North's report on certified tradesmen in Inuvik, Tuktoyaktuk, and Fort Simpson

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XXI	25	Mar. 19	YK	Mercredi	Citizen	Use of resources from perspective of northern native needs
XXIII	2681-83	Mar. 21		Clark	CAGPL	Granular deposits - depends on use, economics
45	5960	May 24		Bayly	COPE/ITC	Coal deposits in southeastern B.C.
48	6348-51	June 4		Bliss	EPB	Need for land use planning
C-1	50	Apr. 2	Aklavik	Ross	Citizen	Many resources in area of proposed pipeline route
C-4	212	May 28	Hay River	Dean	Citizen	Exploitation by the rest of Canada
C-7	633-34 661-62	June 24	F.F.	Modeste J. Cleary	Citizen Citizen	Discovery of radium, oil, gold Radium mine, Echo Bay
C-8	710	June 25		C. Nielly	Citizen	Radium, oil
C-11	1005	July 8	F. McP.	M. Kunnizzi	Citizen	Water resources officials burning more wood than needed, Fort McPherson area
53	7069-70 7189	Aug. 13	WH	Trusty Joe	CAGPL CYI	North as a resource-extractive economy Social impact; incompatibility of mining with Indian values
55	7620	Aug. 15		Hughes	CARC	Placer mining involves man induced erosion and transportation of soils
C-18	1782	Aug. 5	FGH	G. Barnaby	Citizen	Alternatives to a gas pipeline
C-21	2160	Aug. 9	NW	P. Tourangeau	Citizen	Discovery of gold
C-22	2272-80	Aug. 11	WH	V. Jutronich	Citizen	Policy of northern mining re pipeline
C-23	2309 2312 2327 2337-41 2343-50	Aug. 14		R. McKaymie G. Bryce B. Bachelor R. McCandless I. Warner	Citizen Citizen Citizen Citizen Citizen	Phasing out of companies; ore Reducing energy use Change in cultural attitudes Marketing of minerals; coal Mineral policy; resource use

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C-23	2351-52	Aug. 14	WR	Taylor	Yukon Conservation Society	Urge long term energy policies
	2355-56			Taylor		Ordered extraction and development
	2383-84			B. Cooper	Citizen	Safeguarding energy resources
61	8601-14	Sept. 15	YK	Stevens Garlick Cook	U.S.W.A. U.S.W.A. U.S.W.A.	U.S.W.A. involvement in Canadian mining and manufacturing industries; Canadian energy policy, reliance on a depletable resource
75	11120	Oct.20		Weeden	CARC	Opening up of the Arctic National Wildlife Range for mineral, oil and gas exploration leads to loss of wilderness character; triggering effect
76	11206	Oct.21		Weeden		Extraction of non-renewable resources; effects on wild country species
77	11458-88	Oct.22		Roed	CARC	Oil and gas reserves, exploration, discovery areas of minerals - coals, uranium, base and precious metals, industrial minerals
78	11504-23	Oct.23		Roed		Consideration of minerals, potential coal resources along the edge of the shield, in-shield terrain
	11534			Roed		Availability of resources along Mackenzie River Valley
	11573-75			Roed		Echo Bay and Great Bear Lake Silver Mines, Terra Mines; copper mines
81	12083	Nov. 5		Williams	CAGPL	Royalty payments for gravel removal
82	12213	Nov. 6		Hemstock	CAGPL	Agrees that resources to be used prudently and conservatively
88	13201	Nov.17		Ryder Bouckhout	MVPI Foothills	Competition with other users
96	14570	Dec.4		Berger Jakimchuk	CAGPL	Gold mining operation in a tributary of Firth River - Sheep Creek
99	15055	Dec. 9		Hemstock		Mining, Firth River, impact on wilderness values
	15059-60			Scott Jakimchuk	MVPI	Mining, Firth River, personnel, operations
105	16105	Dec.17		Millien	CARC	Placer mining re gravel removal
108	16570-75	Jan.13		Templeton Berger Marshall	EPB CAGPL	National Parks; mining allowed in Nahanni Park; regulations re commercial and extractive activities; gradual extinguishment of pre-existing rights
C-24	2444-45	Aug. 23	NB	A. Consenta	Citizen	Cadillac Mines; land use permits
	2447-48			H. Deneron Berger	Citizen	Land use permits re: Cadillac Mines, community feeling and input
	2453-54			Father Mary	Citizen	Cadillac Mines, community feelings
	2458			Nahanni	NWT IB/MA	Prairie Creek where the Cadillac Mine has its trenching camp re: land use maps
	2463-65			Nahanni		Cadillac Mines re: job opportunities, exploration permits
C-25	2564	Sept. 8	FS	Ivans	Citizen	NWT Heritage Fund
C-26	2706	Sept. 9		Lamothe	Citizen	Gold re: Yellowknife; gas re: Liard, re: little return benefit
C-27	2775	Sept. 10		Grnon	Citizen	Northern development of resources re: trade for commodities not produced; extraction from North, put something in
C-29	2866	Sept. 12	JMR	Kazon	Citizen	Shortage of gas, oil
	2872-78			Lafferty	Citizen	Harnessing of energy resources re: natural gas, fuel potential; royalties negotiated
C-30	2888-93	Oct. 6	PP	Osing	Citizen	Mining history, railway transport; feeder line
	2902-05			Osing McConnell	Citizen	Ore production, mining training program
	2921-31			Berger Mirosh	Foothills	Potential resource development re: post-pipeline construction; energy corridor concept
	2948-50			Milan	Citizen	Resource utilization re: greatest benefit to NWT

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C-31	2995	Oct. 7	FR	M. Beaulieu	Citizen	Discrimination at, pollution from gold, ore mines
C-32	3055	Oct. 8		Lockhart	Citizen	Pine Point re traditional hunting and trapping area
	3060			McConnell	Citizen	Pine Point employment from Fort Resolution
	3064			McConnell		Pine Point's contamination of water around mine
	3070			M. Beaulieu	Citizen	Pine Point re licence for pit de-watering
	3072			Berger		Pine Point re trips and mine seen from air
	3075-78			Boggins	Citizen	Pine Point re white takeover of native hunting areas, animals; damage to native cabins; misuse of guns
	3079-81			Balsille	Citizen	Pine Point employees - unnecessary to hunt when natives need meat
	3083			McConnell	Citizen	Giant Mines recovery of gold
	3086-87			McConnell		Ownership and control of Giant Mines re Lalor Mines, Falconbridge Mines, McIntyre Porcupine Mines, Canadian Superior Oil, Superior Oil Company; Lason Mines, Pine Point Mines, Canadian Mining and Smelting Company of Canada, Cominco, Canadian Pacific Investments
C-33	3187	Oct. 9	FS	Applewhite	Citizen	Pine Point, Yellowknife Mines, re development similar to pipeline
C-34	3336-37	Oct. 16	YK	Henne	Citizen	Development of northern resources, hydrocarbon energy
C-35	3405	Oct. 22	LI	Hasen	Citizen	Resource exploitation of north by southerners; native northerners' ability to participate in technological process
C-36	3480-82	Jan. 28	In	Kryne	Citizen	Resource development to maintain present standard of living
117	17906	Jan. 26		Berger		Pine Point, unsuccessful training program
118	17940-41	Jan. 27		Bayly Wopnford Tod	COPE/ITC GPC-D-S GPC-D-I	Land taken for roads, pads; impact on trapping and hunting
143	21762-63	Apr. 14	YK	Manuel	NIB	Need for resources creating demand for land claim settlements
	21813-25			Fumoleau	NWT IB/MA	Klondike Gold Rush; prospecting for other minerals; discovery of oil
	21836			Fumoleau		Discovery of uranium, gold; exploitation of resources by white people
145	22115-51	Apr. 26		Clarke	NWT IB/MA	Exploitation of oil, minerals in Brazil, involvement of transnational corporations
	22205-06			Menez	NWT IB/MA	Impact on Dene people of Pine Point Mine
146	22275-77	Apr. 27		Jones	NWT IB/MA	Aluminum smelter plant, Kitimat, B.C.
148	22660	Apr. 29		Rushforth	NWT IB/MA	Silver, uranium discovered at Port Radium, 1930's
	22709			Asch	NWT IB/MA	Government granting permits to Cominco despite objection of Wrigley people
150	22867-70	May 4		Hills	NWT IB/MA	Transnational mining corporations relations with aboriginal peoples
	22889-99			Hills		Exploitation of resources, transnational corporations
	23094-95			McClellan	CYI	1898, discovery of gold, Klondike Gold Rush
153	23408-09	May 7		Sharp	CYI	Development of Anvil Mine, Ross River
	23427			Sharp		Tintina Fault, area under extensive mineral exploration
C-41	3942	Mar. 3	HOL	Kataoyak	Citizen	Muskox Mines, Grand Roy, disregard for environment
C-44	4286	Mar. 9	TUK	Andreason	Citizen	Does not want minerals to leave north
C-48	4738	Apr. 30	FS	M. Beaulieu	Citizen	Pine Point Mines, impact on Fort Resolution
C-50	4861-64	May 11	VAN	Holmes	Citizen	Development of mining resources enabling White Pass to improve transportation system in Yukon
	4923-24			St. Dennis	Citizen	Right to extract resources, moral issue

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C-52	5253	May 13	CAL	Father Gauthier	Citizen	Magnitude, possible effects on land claims settlement; ownership, benefits, development
C-55	5843-47	May 18	EDM	S. Johnson	Citizen	Oil, gas consumption; need for full public inquiry, energy needs and reserves
	5849-51			B. Hall-Boyer	Citizen	Southern dependency on gas and oil
	5856-66			J. McDougall	Citizen	Oil, gas consumption; depletion of southern reserves; frontier exploration activity
	5947-49			T. Turner	Citizen	Mismanagement of energy sources; exploration in response to genuine need
C-56	6050	May 19	REG	R. Allan	Citizen	Rapid depletion, energy sources
	6127-33			J. Roberts	Citizen	Development of crude oil, natural gas, multinationals and government
154	23583	June 29	YK	Watkins	NWT IB/MA	Mining industry, need for rights to land
	23616-19			Watkins		Need for Dene economic independence, alternatives to non-renewable resource sector development
155-A	23838-40	June 30		Jelliss	NWT IB/MA	Mining projects, NWT, companies involved
	23863-64			Jelliss		Mines in Yellowknife
C-59	6461-63	May 26	TOR	W. Kashton	Citizen	Need for inventory of energy resources, national energy policy
	6465-70			F. Jones	Citizen	Operation of Steep Rock Mines, iron ore production
	6472-73			D. MacKay	Citizen	1980's , predicted severe energy shortage
	6487			D. Matthews	Citizen	Search, discovery, hydrocarbons
	6530-32			G. Loeb	Citizen	Need to inventory petroleum resources; short term solution, use of petroleum resources, energy crisis
	6555			M. Gunn	Citizen	Reserves, oil and gas; supply to United States
C-60	6637-38	May 27		R. Snyder	Citizen	Additional energy supplies needed
	6716-19			D. MacKenzie	Citizen	Depletion of gas by 1985; need for all Canadians to be stewards of resources
	6551-53			V. Horte	CAGPL	Canada, net importer of crude oil
C-61	6844-45	May 28		D. Elliott	Citizen	Use of energy to produce energy to export
	6846-47			F. Duerden	Citizen	Expansion in demand, effect on native people
	6855-58			W. Lowes	Citizen	No certainty about existence of economically fuel reserves
C-62	6885	May 31	MTL	Poirier	Citizen	Should develop Alberta Tar Sands and coal reserves
	6921-23			Perras	Citizen	Production of steel, Sidbec - Dosco
C-63	7085-86	June 1		Beauregard	Citizen	Industry using up our non-renewable resources
	7172			Jones	Citizen	Gold discovery in the Klondike, US wanting boundary between Alaska and Yukon on their terms
C-64	7280	June 3	OTT	Brabozon	Citizen	All Canadians should be concerned with future energy reserves
	7286-88			Bregha	Citizen	Evaluation of Canada's energy reserves
C-66	7637	June 7	CH	J. Butler	Citizen	Dennison Mining Company, uranium mine
157	23993-4020	July 5	YK	Thompson	NWT IB/MA	Native control of natural resources, legality; management rights of mineral resources, exploratory and development rights of oil and gas, ownership; native land claims issue
	24020-27			Thompson	NWT IB/MA	Rights of people to own resources, royalties, key to financial independence
163	25269-71	July 14		Hobart	CAGPL	Employment of natives, mining industry
166	25796-98	July 20		Brody	COPE/ITC	Nanisivik Mine, Strathcona Sound, impact on surrounding communities
167	25909-12	July 21		Usher	COPE/ITC	Discoveries - increase in corporate interest in the north; relationship between metropolis and hinterland
	25940-42			Beakhus	COPE/ITC	Discoveries, precipitation of population influxes; government policies

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168	26078-84	July 22	YK	Brody	COPE/ITC	Rankin Inlet, impact of mine employment; Strathcona mine, availability of liquor
169	26270-71	July 23		Stanley	NWT IB/MA	Navajo deriving little income from lease payments for mineral extraction on reservations; native people desiring full responsibility for mineral exploitation processing, marketing
	26357-58			Stanley		Navajo Tribal Council entered into an agreement with Peabody Coal, strip mining, controversial issue on the reservation
C-72	8071-72	Aug 11	RE	Chief Charlo	Citizen	Discovery of Yellowknife Mine, Rae Rock Mine
186	28955-56	Sept.16	YK	Snowden	COPE/ITC	Development as a matter of national interest
198	31340-43	Oct. 14		Sterling	MVPI	Quota of native employees at Nanisivik Mine; experience at Rankin Inlet Mine; plans for Nanisivik after ore is extracted
	31400			Witty		Training for Strathcona Mine

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XI	2524-25	Mar.19	YK	Mercredi	Citizen	Need for research into natural resources for Natives
46	6094	June 2		Templeton	EPB	Change in resources affects ability of people to use them
47	6165-66	June 3		Wilimovsky	EPB	Fish - management for commercial and sport fishing
48	6348-51	June 4		Bliss	EPB	Need for land use planning
49	6615-19	June 5		Horte	CAGPL	Restoration of activity damaged by construction
C-I	20	Apr.2	Aklavik	Elanik	Citizen	Animals - Caribou, muskrat, etc.
	50			Ross	Citizen	Many resources in area of proposed pipeline route
C-II	113-14	Apr.3		J.Sittichinli	Citizen	Effects on wildlife, seismic blasting
C-14	1285	July 11	O.C.	P. Lord	Citizen	Timber, Old Crow area
C-16	1480	July 13		P. Nukon	Citizen	Tagging fish, caribou
85	12697-12700	Nov. 12	YK	Bayly Hemstock	COPE/ITC CAGPL	Great Bear Hydro dam power for compressors
90	13682-93	Nov.19		Dabbs Hemstock	CAGPL	Use of timber Peel River area
112	17086-89	Jan.20	In	Bliss	GPC-D	Timber in Delta area as source of pilings, regeneration problems, alternative sources
	17113-14			Bayly Bliss		Harvesting figures from E-SP report no. 74-42, trapping in Mackenzie Valley
115	17494-95	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field, timber pilings, use in construction of facilities
	17572-75			Stamberg	GPC-D-G	Parsons Lake gas field, possible use of wooden pilings for elevated gathering lines
145	22115-51	Apr.26	YK	Clarke	NWT IB/MA	Exploitation of resources in Brazil; role of transnational corporations; conflict with the native people of the Amazon Basin
	22282-310			Richardson	NWT IB/MA	Dependence of the native people of James Bay on renewable resources
147	22410-11	Apr.28		Richardson		Hunting resources, Cree people
	22422-426			Richardson		Desire to ensure control of wild animal resources, James Bay, by the Cree
148	22597	Apr.29		Nahanni	NWT IB/MA	Species hunted, trapped
	22678-80			Asch	NWT IB/MA	Harvesting of bush resources, techniques of hunting, trapping, fishing, Slavey region
	22718			Asch		If fur prices were higher, more natives would turn to hunting, trapping
149	22755-57	May3		Ritter	NWT IB/MA	Names of animals given to places by Kutchin people
150	22875-76	May4		Hills	NWT IB/MA	Amerindians, Brazil, ecological knowledge of rain forest
	22898-99			Hills		Fell-and-burn agriculture, Amazon forest

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154	23616-19	June 29	YK	Watkins	NWT IB/MA	Need for Dene economic independence, opportunities in this sector
C-63	7160-61	June 1	MTL	Penn	Citizen	Game resources, northern Quebec
C-64	7257	June 3	OTT	Mosquin	Citizen	Canadians should learn from native people, using almost no resources that are not renewable
168	26100-04	July 22	YK	Brody	COPE/ITC	Availability of food resources, amount needed to feed present native population
169	26287-93	July 23		Ruttan	NWT IB/MA	Evaluation of the renewable resource base, potentials for future development
	26299-314			Ruttan		Wildlife resources, trapping
	26315-25			Ruttan T'Selele	NWT IB/MA NWT IB/MA	Requirements for a renewable resource-based economy, such development is co-operative amongst Dene
	26335-38			Stanley	NWT IB/MA	Each community to decide what to make of their resources
186	28887-88	Sept. 16		Snowden	COPE/ITC	Need for new technological innovation in fishery, forestry, etc
	28908-25			Currie	COPE/ITC	Recommendations - development of Beaufort Sea fish resource, land management; oyster farming in Bras d'or Lakes; failure of Herschel Island resource development project; resource development project
	28928-47			Snowden Currie		Comments on Ruttan Report - resource harvesting; eel farming in Japan, Atikameg Lake, Alberta - trout fishing; extraction of wealth from northern areas; northerners should have first right to resource ownership; control resulting benefits; renewable resources should not be sacrificed for non-renewable resources
	28949			Snowden		Financing of development in NWT, Western Northland's program
	28955-61			Snowden		Development of technologies to aid renewable resource project
	28965-72			Berger Snowden		Require an intergrated approach to renewable resource development use, resource industry
197	31005-08	Oct. 13		Bergasse	MVPI	Role of Department of Economic Development, NWT government, to develop capacity to utilize renewable resources: sawmills, fisheries, agriculture

RESTORATION/REHABILITATION

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XXXIII	4370-71	Apr. 21	YK	Dau	CAGPL	Clean up surplus construction material, ROW
48	6420-21	June 4		Bliss	EPB	Sec 27 of Code - regulations
49	6614-19	June 5		Horte	CAGPL	Compensation for damage on return of resource
50	6622-24	June 6		Horte		Compensation - subsidize re-organization of traplines
	6693-97			Horte		Hunting, trapping damage compensated?
	6701-03			Horte		Compensation machinery for dealing with claims
61A	8726	Sept. 15		Walker	Foothills	Bank restoration; armoring, revegetation
62	8826-29	Sept. 16		Mirosh	Foothills	Restoration of the cleared right-of-way, permanent and construction phase areas; revegetation and soil stabilization
	8844			Mirosh		Frost heave potential; restore the right-of-way; gas companies to take responsibility
64	9405-09	Sept. 18		Claridge	Foothills	Aesthetic reasons for repairing slopes; use of compounds; revegetation
65	9567	Sept. 19		Claridge		Mound breaks and revegetation
	9609			Bauer	Foothills	Deferred to summer months; aerial reseedling
67	9952-59	Sept. 23		Bauer		Stabilization of slopes & restoration after grubbing or cutting
	9966			Kosten	Foothills	Work feasible in warm weather
	9977-81			Mirosh		Revegetation after clearing; scheduling of revegetation of ditch line

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58	10097	Sept. 24	YK	Hushion	Foothills	Foothills will maintain responsibility of upkeep of land it utilizes
70	10516 10529	Sept. 26		Owen Owen	MVPI	Preparation of river crossings Beaver River - Fort Nelson Line; rehabilitation on Pointed Mountain as on other lines
71	10626 10629 10658	Oct. 14		Bayly Longlitz Bayly Longlitz Bayly Longlitz	COPE/ITC MVPI	Terrain damage; withholding of security deposits due to inability to restore terrain; Default of an operator; refusal to clean-up re: Section 31 of land use regulations Clean-up time of snow roads; very expensive to have helicopters go in and do restoration measures
75	11084-86	Oct. 20		Parker Weeden	CARC CARC	Revegetation of areas destroyed by all-terrain vehicles; bare spaces; Brooks Range; State Pipeline Office involved in rehabilitation, reports
78	11575 11617-65	Oct. 23		Roed Minning	CARC CAGPL	Blending with terrain and vegetation patterns Revegetation; slope stabilization, erosion control; re-seeding programs; impact on resources ie. borrow; drainage changes; reading of phase 2 evidence
79	11712-31 11744-75 11909-17	Nov. 3		Dabbs Dabbs Harlan Dabbs	CAGPL CAGPL	Techniques to be employed by CAGPL Cross-examined by Hollingworth re vegetation zones, soil replacement technique Restoration of borrow pits, revegetation
81	11993-94 12060	Nov. 5		Williams Dabbs	CAGPL	To be carried out for aesthetic reasons Revegetation of borrow sites in relation to size
82	12220-21	Nov. 6		Dabbs		Rehabilitation and improvement of previous natural state
83	12415 12506-14	Nov. 7		Scott Minning Scott Hemstock Williams	MVPI CAGPL CAGPL	Rehabilitation techniques to be shown in borrow site plans Borrow pits, flood plains; soil disposal for restoration of right-of-way
85	12710	Nov. 12		Scott	MVPI	River crossings
86	12916-21	Nov. 13		Bouckhout	Foothills	Gravel pits
87	13111-13	Nov. 14		Berger Taylor	Foothills	Gravel pits near communities, aesthetics, local attitudes
88	13202	Nov. 17		Ryder Bouckhout	MVPI	Implementation after disturbance
90	13693-719	Nov. 19		Dabbs	CAGPL	Permafrost table, organic mat, plant cover, soil fertility
C-25	2545-46	Sept. 8	FS	Ellwood Workman	Foothills CAGPL	Pipeline abandonment - environment restoration
C-33	3105	Oct. 9		Evans	Citizen	Disposition of surplus buildings after construction re local community authorities
126	19260-61	Feb. 16	IN	Pettigrew	COPE/ITC	Availability of northern soil restoration experts
130	19750	Mar. 16	YK	Hemstock	CAGPL	CAGPL'S cross-Delta route preferable to Barry's (CWS) for restoration
140	21341-44	Apr. 8		Usher	COPE/ITC	Problems - oil company fulfillment of clean-up requirements prior to permit renewal
161	24828-36	July 12		Williams	CAGPL	Maintenance work, ROW, airstrips; employees involved, casual labour; contractors
162	24993-5000	July 13		Williams		Numbers involved, post-construction clean-up

REVEGETATION

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XIX	2215-16	Mar.17	YK	Williams	CAGPL	Sans Sault test site; removing vegetative cover in mats; various seeds; native plants
XXI	2479-83	Mar.19		Clark	CAGPL	Main drainage & erosion control measures
XXIV	2849-60	Apr.7		Clark		Wind erosion, seeding, organic mat, drainage
XXVII	3332	Apr.10		McRoberts	CAGPL	Slope stabilization
	3349			Williams		Mackenzie River, Small Creek
	3355-65			Scott	MVPI	Right-of-way, prevention permafrost degradation, sowing grass seed
				Slusarchuk	CAGPL	
	3372			Scott		Testing, Sans Sault, winter roads
XXVIII	3528-30	Apr.11		Morgenstern	CAGPL	Slope stability
XXXIII	4352	Apr. 21		Dau	CAGPL	Tundra removal - continuous permafrost
	4371			Dau		Seeding of ROW, greater detail phase 2
XXXVII	4816-21	May 13		Bayly	COPE/ITC	Pipeline ROW; tundra mat
XXXVIII	4822-23	May 14		Bayly		Aerial seeding on winter roads, pipeline ROW
XXXIX	5139-44	May 15		Harlan	CAGPL	Some erosion before revegetation takes affect
	5153-54			Harlan		Siltation control during revegetation
40	5229-30	May 16		Hurd	CAGPL	Control of surface water flow; seeding ROW
41	5320-22	May 20		Hurd		Damage repairs
42	5478	May 21		Scott		Re-seeding, planting of vegetation
				Hurd		
45	5919-20	May 24		Bayly		After line has been laid
46	6069	June 2		Craik	EPB	Test sites - data on successful plant species
	6073			Craik		EPB report #3 - reseeding to prevent subsidence
	6125-47			Bliss	EPB	Plant cover on right of way
	6135-39			Bliss		Necessity, methods, plant succession, test sites
51	6805-10	Aug. 11	WH	Hemstock	CAGPL	Restoration and revegetation of right-of-way areas; snow and ice roads, grass varieties
53	7110-12	Aug. 13		Hemstock		Problems in alternative corridor
54	7457	Aug. 14		Weedon	CARC	Impact caused by Fairbanks, Fort Yukon corridors
	7472			Weedon		Disturbances south of Brooks Range, will revegetate more rapidly due to a longer growing season
C-22	2241	Aug. 11		D. Lloyd	Citizen	F. F. Slaney studies on Mackenzie Highway, Arctic Railway
64	9405-09	Sept. 18	YK	Claridge	Foothills	Interference from compounds used in slope stabilization; Alaska approach to revegetation of soil mound containing some frozen material
65	9609	Sept. 19		Bauer	Foothills	Deferred until summer months; aerial reseeding
66	9783-84	Sept. 22		Mirosh	Foothills	Pulverization of frozen spoil material to facilitate revegetation
				Kosten	Foothills	
67	9966	Sept.23		Kosten		Feasible & necessary in warm weather
	9977-81			Mirosh		After clearing; restoration of ditch line
68	10109	Sept.24		Hushion	Foothills	Use of chemical controls
70	10547	Sept.26		Longlitz	MVPI	Regrowth of cleared areas
75	11084-86	Oct.20		Parker	CARC	Brooks Range re: slow revegetation growth; planting of exotics as initial erosion control measures; natural ground cover to take over from exotics through the years
				Weedon	CARC	
78	11618-65	Oct.23		Minning	CAGPL	Reading of phase 2 evidence; intentions to revegetate right-of-way, re-seeding programs; drainage, slope control measures; use of exotic plants, climax vegetation to re-establish later
79	11701-02	Nov. 3		Minning		Angle of revegetated slopes
	11712-31			Dabbs	CAGPL	Direct evidence on techniques to be employed by CAGPL
	11744-75			Dabbs		Cross-examined by Hollingworth re vegetation zones, technique of soil replacement
80	11769-11812	Nov. 4		Dabbs		Cross-examination by Hollingworth continues re success rate of species, flowering mechanism and dormancy periods, agronomic varieties, seed mixes; fire hazard from dead agronomic varieties, erodibility ratings
	11909-15			Dabbs		Restoration of borrow pits

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81	11947-48	Nov. 5	YK	Dabbs	CAGPL	Revegetation as counter to erosion; role in sustaining thermal balance
	11959-60			Dabbs		Clarification of evidence re seeding of high, medium and low erosion areas
	11964-72			Dabbs		Seeding from helicopters; impacts of caribou and grasses; small mammal impacts
	11993-94			Williams	CAGPL	Carried out for aesthetic reasons
	12028			Clark	CAGPL	Fine-grained material needed for berm
	12058-60			Dabbs		Size of borrow pits in relation to revegetation
	12077			Dabbs	CAGPL	Organic material in flood plains not suited to revegetation
82	12138-55	Nov. 6		Dabbs		Character of material in ditched mound replaced after ditching; timing of seeding; winds causing loss of seed; tests of seeding mats; conflict with calving caribou; impact on birds; reseeding from aircraft; altitude; impact of seed and fertilizer in waterways; staging birds feeding on newly planted seed; climatic problems of aerial reseeding; contingency plans
	12205-07			Dabbs		Cross-examined by Hollingworth re table of seed mixes
	12292-12329			Dabbs		Cross-examination by Scott re standards of Department of Agriculture; soil moisture, erodibility factors, tests in cold ground and over-chilled line
83	12331-48	Nov. 7		Scott Dabbs	MVPI	Kotanelee Valley; climatic effects; organic soils; tundra-mat removal
	12512-13			Scott Williams	CAGPL	Revegetation of right-of-way on excess spoil material
84	12529	Nov. 8		Anthony Harlan	CARC CAGPL	As erosion control measure on excess spoil material
86	12853-71	Nov. 13		Vaartnou	Foothills	Methods, plants used
	12916-53			Bouckhout Vaartnou	Foothills	Borrow pits; aerial seeding, ground preparation; seed availability, testing, planting
87	12123-63	Nov. 14		Vaartnou		Plant types, studies, tests, seeds, planting
88	13325-38	Nov.17		Vaartnou	Foothills	As erosion control; native species, seeding; personnel; tests; viability
88-A	13365-80			Dabbs	CAGPL	Objectives, research, reports, seeds, tests
89	13506	Nov.18		Hemstock	CAGPL	Native species will be re-established eventually
	13530-70			Dabbs		Terrain classification; studies; species; snow road use; methanol impact; seed production
90	13571-640	Nov.19		Dabbs		Seed production, mixing; surveys, routing; snow roads, effects; trampling by animals; seed eating birds; methanol, effects, studies; fuel oil, toxic liquids, effects; aerial seeding; seeding scheduling
	13671-722			Dabbs		Priorities; natural vegetation; trees, succession, burning slash,uses in construction; adequacy of three-year time period, re-establishment of thermal regime; ponding in slumped areas; agronomic species replacing native species; fertilizer; soil;seed
94	14254-61	Dec.2		Jakimchuk	CAGPL	Seeding not to take place until after calving; nursery period for caribou; winter seeding; machine use - helicopter seeding
97	14733	Dec.5		Jakimchuk		Will provide food for moose
98	14911-13	Dec.8		Gunn	CAGPL	Eating by geese, North Slope
99	15084	Dec. 9		Scott	MVPI	Aesthetic solutions to impact of construction
	15116-17			Kondla	Foothills	Impact on vegetation, differences from CAGPL
101	15470-72	Dec.11		Zoltai	CARC	Effectiveness of revegetation programs, further research required
	15473-74			Zoltai		Artificial insulation, uses to prevent erosion
	15519-20			Zoltai		Artificial insulation to prevent short term thermal erosion, experimentation needed
102	15580-85	Dec.12		Zoltai		No problem in fens; below berm on dry slope; regrowth of trees, Delta area

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103	15793	Dec.15	YK	Millen	CARC	Need to define restoration program
106	16168	Dec.18		Lent	CARC	Unsuccessful, behind schedule re Trans-Alaska Pipeline
108	16506-08	Jan.13		Bliss	EPB	Revegetation from Prudhoe Bay to Alberta - native species, agronomics
	16515-16			McT-Cowan	EPB	May affect population of the field mouse
	16545-46			Bliss		Revegetation periods - drainage control, thermal control; impact of looping
109	16599	Jan.14		Templeton	EPB	May not be possible to revegetate the line across the delta in the same manner as in the upland area
	16674-76			Bliss		Research, slope stabilization; Firth River tests; erosion factors
	16685			Bliss		Revegetation in a slope situation
112	17049	Jan.20	In	Bliss	GPC-D	Discovery of native grasses recovery on seismic lines led to revegetation research
115	17506	Jan.23		Faulkner	GPC-D-5	Niglintgak gas field, if required, will be done
130	19750	Mar.16	YK	Hemstock	CAGPL	CAGPL'S cross-Delta route preferable to Barry's (CWS) for revegetation
133	20129-30	Mar.23		Rowe	CAGPL	Cross-Delta route
	20140			Dabbs	CAGPL	On Delta, research
	20171			Dabbs		Suitability of three erosion control methods for revegetation, west side, Shallow Bay
	20183			Dabbs		Comparison of possible cross-Delta routes
134	20282-83	Mar.24		Dabbs		Use of native, agronomic varieties on cross-Delta route
135	20451-57	Mar.25		Gunn Dabbs	CAGPL	Geese eating revegetated areas; Shallow Bay crossing area, plans, geese problems; Delta route preference
136	20617-18	Mar.26		Dabbs		Difficulties on "DEW line route", North Slope
C-60	6817-22	May 27	TOR	M. Pick	Citizen	Types of plants, amount of seed needed; grasses suited for Arctic regions
194	30363	Oct. 6	YK	Hemstock	CAGPL	North Slope revegetation more difficult than southern sections of right-of-way
202	32056-57	Nov. 17		Anthony	CARC	Participants must conduct further field testing on slopes, areas of ice rich permafrost

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XV	1709	Mar.11	YK	Dau	CAGPL	Route selection; bank instability
	1709-11			Watson	CAGPL	Willow River, route relocation
	1711-14			Dau		Route selection; fish & environmental concerns; Malcolm River
	1717			Dau		Route selection
	1724-26			Williams	CAGPL	Fort Simpson Route Change
	1727			Berger		Dual pipeline river crossings
	1730			Dau		Thunder R; Great Bear R., PAAG Report, CAGPL'S Respons
XV1	1791-93	Mar.12		Dau		Liard, Mackenzie R. at Burnt Island, dual pipeline
	1800-03			Dau Gibbs	Foothills	Dual pipeline river crossings
	1863-65			Dau Anthony	CARC	Dual pipeline river crossings
	1868			Dau		Stockpile sites, land requirements at river crossings
XV11	1896-98	Mar.13		Dau Anthony		Off ROW land requirements
	1957-75			Bayly Mollard	COPE/ITC CAGPL	Consideration re: route selection, location; east/west Mackenzie River; braided channels; particular engineering problems; EPB Report v.4; guaging of stream flow;
	1998-2004			Williams Bayly Berger	COPE/ITC	Dual pipeline crossings; failures at single pipe crossings; repair procedures, scheduling, crews, time involved; effect on mammals; equipment required; temporary/permanent repairs

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XVIII	2068-74	Mar.14	YK	Watson Scott	CAGPL MVPI	Importance in route location, alignment
	2125-26			Berger Dau	CAGPL	Dual pipe crossings, Fort Simpson Route Change
XIX	2180-85			Clark	CAGPL	Geothermal data; valley & slope stability; formation of permafrost; ice jams & scour; river crossing design slopes of valley walls; buoyancy
XIX	2219-20	Mar.17		Clark	CAGPL	Drilling programs; tests; river regimes
XIXA	2228-29			Clark		Pipe bending; sag points, over bends, bank armoury
	2233-34			Clark		Weighing pipe under rivers
	2235-38			Clark		Studies; pipe configuration; site specific designs; realignments
	2241-44			Clark		Great Bear River; slope stability
	2249-50			Clark		Inspection & Monitoring during construction
	2255-59			Berger		Data collection, effect on design; crossing Mackenzie River
	2260-61			Clark		River banks, protection from erosion; temporary berms, rip-rap; maintenance program
	2276-77			Clark		Burial; depth; anchoring & weighting
	2285			Clark		Interior route; alluvial fans
	2291-92			Clark		Fort Simpson and Cross-Delta route changes
XX	2308	Mar.18		Clark		Dual Crossings, frost heave
	2234			Slusarchuk	CAGPL	Slide presentation; frost heave, poorly consolidated soil
	2363-64			Clark		Absence of permafrost under river channels; drilling
	2386-2405			Clark Cooper	CAGPL	PAAG Report; sediment transport; CAGPL Responses; possibility of toxic substances e.g. test fluids, entering rivers; effects on aquatic environments; work pads, channel constriction; berm construction; impact on fish; installation of crossings; river levels, water velocity; icings at minor river crossings; culverts; fish overwintering areas; lateral migration of river channel; local bed scour & ice jams; presence/absence programs; general bed degradation resulting from pipeline-related activities; lateral migration, thermal niching; bank erosion control measures; channelization in braided streams; angle between pipeline and river at crossing; river training structures stability of bank approaches; impact in valleys; proximity to proposed highway; Thunder River, Great Bear possible relocations
XXI	2420-26	Mar.19		Hollingshead	CAGPL	Great Bear River, construction berm, burial depths, bore hole data, high water levels
	2426-42			Hollingshead		Slide presentation - river crossing design procedures & objectives; river characteristics; scour; methodology to establish safe burial depth; 2 key points in design: pipe below predicted lowest bed level sufficient protection of sag bend; meander pattern shift; deep burial or monitoring, contingency plans & Maintenance programs re: sag bend protection; Willowlake River crossing, unrevised location - cut, ditch backfill, erosion control, burial depth, buoyancy control; Peel River Crossing; the number of crossings, both major and minor, sizes
	2442			Cooper	CAGPL	Slide presentation; river characteristics, scour, etc.
	2460			Cooper		Slide presentation: bed degradation
	2467-69			Cooper		River engineering design, principles; studies & report
	2500-14			Hardy Hollingshead Williams	CAGPL CAGPL	Scour problems, ice jamming, twinning of lines, separation by one river width, Shallow Bay crossing, diameter of line twinned; buoyancy: 48" more than 36"
XXII	2534-35	Mar.20		Clark	CAGPL	Ice jams, slope stability - over 3°
	2623-57			Clark		Frost bulb, icing, drainage, fish over-wintering, culverts
	2659-67			Hardy		Overhead crossings, economic advantage
XXIII	2676-79	Mar.21		Hollingshead		Great Bear River crossing & berm; borrow material
	2719-20			Clark		Movement of route; environmentally sensitive areas
	2740-42			Hardy		Koyaleer & La Biche rivers, shift in river pattern

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XXIV	2809-19	Apr. 7	YK	Hollingshead Cooper	CAGPL CAGPL	Great Bear River - effect of sediment on fish Gauging of major river crossings
	2828-35			Hardy Williams	CAGPL CAGPL	Blasting of ice jams, rock - North Slope
	2868-69 2875-76			Clark	CAGPL	Change made - concern for physical environment Winter and summer construction, ice disposal
XXIV-A	2902-03 2902-09 2944-45			Clark	CAGPL	Twinning - risk insurance Failures, loss of revenue, risk of damage Possibility of loss - dual crossings
XXV	2955-56	Apr. 8		Clark		Route change - geotechnical concerns
	2966-74 2975-90			Cooper Hollingshead	CAGPL CAGPL	Scour problem Suspended crossing as alternative to twinning
	3018-24 3055-75			Hollingshead Hollingshead		Training works at river crossings Swimming Point, beaded streams
XXVI	3091-3129	Apr. 9		Scott Hollingshead Cooper Williams Clark Hardy	MVPI CAGPL CAGPL	Evidence in chief
	3212-13 3224-27 3228			Slusarchuk Slusarchuk Slusarchuk	CAGPL	Frost heave monitoring, single lines Insulated pipe Dual piping, frost heave
XXVII	3279	Apr. 10		Clark		Trenches, dual crossings
XXVIII	3437-40 3458 3486-3501	Apr. 11		Scott Clark Clark		Yukon North Slope, winter freezing Major/minor, icings Frost bulbs, culverts
XXIX	3575-76 3603-10	Apr. 14		Clark Clark		Concrete and bolt-on weights to restrain buoyancy Shallow Bay - temperature probes
XXX	3767	Apr. 15		Purcell	CAGPL	Above ground/buried pipeline, dual lines for both
XXXI	3890 3894-3901 3927	Apr. 16		Purcell Purcell Price Purcell	 CAGPL	Mechanical bends, change in alignment Thicker pipe, varying forces Heavier wall pipe
XXXII	4120-23	Apr. 18		Reid	CAGPL	Effect of discharge from warm water testing
XXXIII	4358 4359-68 4365-68	Apr. 21		Dau Dau Dau	CAGPL	Concrete pipe coating Procedure for pipe installation, bank grading Major and minor crossings North of 60
XXXIV	4376 4499-4500	Apr. 22		Williams Genest Williams	CAGPL	Method of major river crossing; slides of West coast Line, Fraser River Old Crow, blasting/ditching
XXXVII	4710-11 4745-48 4749-52	May 13		Williams Dau Dau	 CAGPL	Liard River crossing; a crossing on Mackenzie River Shallow Bay, scheduling for summer, dredging Pipe installation during summer
XXXVIII	4864 4898	May 14		Lucas Lucas	CARC	Preferred crossing techniques Great Bear River
XXXIX	5067-88	May 15		Williams		Dredge soil - disposal
40	5253-58	May 16		Marshall	CAGPL	Contingency plans
41	5278-83 5340	May 20		Fielder Fielder	CAGPL	Yenesei River, N.S.S.R. Ob River, U.S.S.R.; crossings buried
42	5418-20 5424-26 5511-22	May 21		Hurd Scott Scott	CAGPL MVPI	Inspection, repair of pipeline U.S.S.R. pipelines, six lines Donnelly River crossing; spawning, rearing area for grayling
43	5580	May 22		Horte	CAGPL	More difficult river crossings if pipeline located on west side of Mackenzie River
44	5822-24 5834	May 23		Bell Bayly Horte	NWT IB/MA COPE/ITC CAGPL	Difficult crossings on west side of Mackenzie River Difficult crossings on west side of Mackenzie River

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46	6105-17 6133	June 2	YK	Templeton Bliss	EPB EPB	Interaction with slope stability; degradation Potential for terrain degradation and water erosion
47	6153-60 6160-61 6300-12	June 3		Wilimovsky Wilimovsky Adam	EPB EPB	One of main concerns of EPB Siltation, scour of overburden, obstruction Environmental protection
48	6406-07	June 4		Wilimovsky	EPB	Sec 21 of Code: minimal erosion, design of bridges etc.
49	6221-24	June 5		Horte	CAGPL	Fort Simpson route change - Liard and Mackenzie
50	6649	June 6		Horte		Dredging requirements, construction force - Shallow Bay
C-4	199-200	May 28	Hay River	Phillip	Citizen	Possible crossing with future bridge, Fort Providence
C-13	1205-	July 10	F. McP.	W. McDonald	Citizen	View that crossing too close to Fort McPherson
C-15	1472-73	July 12	O.C.	Irving	Citizen	Crossing of Old Crow River
C-16	1481-82 1518-	July 13		P. Nukon J. Tizya	Citizen Citizen	Fisheries marking spots where animals cross rivers Concern about breaks in rivers, repairs
56	7860-62	Aug. 18	YK	Horte	CAGPL	Overhead and bridge crossings; buried pipe; exposed pipe and greater risk of vandalism
59	8352-53	Aug. 21		Fawcett	Foothills	Foothills summer field studies; specific crossing sites; site specific location of compressor stations and ancillary facilities; controlled mosaics; low level photography; route refinement studies; drilling
	8383-87			Gillespie	Foothills	Foothills revision of river crossings areas; Willow Lake; McConnell Range; steep slopes and steep sided gullies; Smith Creek, Ochre, Steep, Blackwater and Great Bear Rivers; heavy snow cover created need for further study
	8437-40			Bouckhout	Foothills	Foothills data collection and studies; sufficiency of data; site specificity; route differences from CAGPL
	8459-67			Fawcett		Foothills research techniques; office studies; scour and river bank erosion; studies extended
60	8563-69	Aug. 22		Fawcett		Number of specific crossing sites to be designed; low level photography; drilling; location of wharves and stock-pile sites
51	6796	Aug. 11	WH	Hemstock	CAGPL	Bank stabilization, detailed pipeline routing, repair activities
52	6893-94	Aug. 12		Banfield	CAGPL	Donnelly River - studies of combined impact of pipeline and highway
	6992-95			Banfield		Adequacy of research on Fairbanks route crossings
53	7141-42 7245	Aug. 13		Banfield Sprecker	CYI	Brooks Range crossings; McCart reports Ceremonious upheaval of Tonsina River Crossing, Alaska
54	7457 7512	Aug. 14		Weeden Weeden	CARC	Impact of Fairbanks, Fort Yukon corridors Anticipated problems, bank erosion, slope stability; Fairbanks corridor
	7536-38			Parker	CARC	Soil stability, thaw envelope of a river system meets and merges with permafrost areas; above ground construction mode to a buried mode
	7568			Parker		Soils, conditions, river erosions pose major problems in construction of pipeline haul roads
	7574			Parker		Erosional siltation; effect on fish habitat and population; bank stability; steep slopes
55	7641-45	Aug. 15		Morlan	CARC	Klondike Highway; archaeological sites; stream crossings
C-18	1808-09 1822-26	Aug. 5	FGH	A. Wilson Rowe	Citizen CAGPL	Concern re fish at Hare Indian pipeline crossing Method of crossing at Hare Indian River; impact predictions
C-23	2311 2317-24	Aug. 14	WH	R. McKaymie A. Fekete	Citizen Citizen	Caribou crossing of Yukon River Impact of Prudhoe Bay supply lateral

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61A	8700-01	Sept. 15	YK	Mirosh	Foothills	Foothills/CAGPL contrasts; Foothills proposes single pipeline crossings over the Mackenzie River
	8720-27			Walker	Foothills	Studies and research; river bed degradation; potential bed scour; course stability; icing effects; seasonal floods; alternate designs should bank instability not be controlled, hydraulic dredging; Fort Simpson crossing; winter construction scheduling; safe crossings; barge anchoring
	8755-60			Mirosh Berger Marshall	Foothills	Single river crossings versus dual river crossings; bank disturbances; security; failure; gas supply; river width; Shallow Bay crossing; Swimming Point; pipe burial, bed scour
62	8776-84	Sept. 16		Walker Mirosh		Final design; consultants; river scour; hydrological and hydraulic studies; completion of studies; single versus dual crossings; Swimming Point; Fort Simpson
	8791-94			Mirosh		Contingency plans should pipe breakage occur; river crossing design; single versus dual pipe at river crossings; fish; looping
	8819-22			Walker Mirosh		Mackenzie East channel, Swimming Point and upstream of Fort Simpson; studies; Great Bear River crossing; consultants and firms; small river crossings; fish; North Slope rivers
	8837-39			Mirosh		Right-of-way width increased at river and water way crossings; major river crossings;
	8868-78			Walker Mirosh	Foothills Foothills	Bridges and overhead crossings; engineering considerations; cost factors; submerged pipe; environmental disruptions; fish; twin piping; stability of banks; erosion control; bank failure; repair of buried underwater pipe
64	9274	Sept. 18		Mirosh		UNIES Ltd. consultants to Foothills re river crossings
	9300-11			Spafford	Foothills	Studies of scour, flow and frost heave. Studies and reports to Foothills
	9321			Hwang	Foothills	River characteristics, flows, icings included in Foothills computer model of frostheave
	9365-74			Claridge	Foothills	CAGPL and Foothills investigating slope conditions along essentially same rivers; differences in routing; crossings at Swimming Point, Holmes Creek, Great Bear River
	9409-36			Spafford		Reports relied upon; small stream crossing techniques; borrow operations; winter flows; frost bulbs; icings; geothermal model
65	9461-88	Sept. 19		Spafford		Experience distinct from hydrology; single pipe design; soundings; scour; crossing alternatives near Tununuk Point and Holmes Landing; pipe burial; comparison with CAGPL route; hanging ice dams; permeability and frost bulb formation; water level criterion; formulae for scour prediction
	9506			Spafford		Use of CAGPL research
	9520-27			Spafford	Foothills	Differences in Foothills and CAGPL approach to the problem
	9549-50			Spafford		Two sample areas studied for drainage and erosion
	9636			Jarvis	Foothills	Use of ice bridges
	9832-33			Jarvis		Techniques for ice bridge construction
67	9966-67	Sept.23		Mirosh	Foothills	Two major crossings of Mackenzie to be carried out in summer
68	10114	Sept.24		Littledale Mirosh		Use of guard dogs in B.C. at Fraser River crossing
	10144			Dau	CAGPL	Economic rather than environmental considerations paramount to contractors
	10152			Williams	CAGPL	Contractors to 'forget' about environmental factors re certain river crossings

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69	10260-65	Sept.25	YK	Williams	CAGPL	Frost heave; chilled pipe; shut-off pressures Water table level; soils and loose sediments; water weight; design proposals
	10284			Williams		Burial depth at river crossings
	10354-60			Williams		High shut-off pressures; frost heaving; burial depth
	10368			Hollingworth	Foothills	Depth of buried pipe at river crossings
	10370-71			Williams		Burial and depth of pipe at river crossings
	10392-93			Owen	MVPI	Two major river crossings; use of saddle weights; pipe construction; trench depth
	10479-80			Owen		Stream crossings; weighting of the pipeline; river channeling
70	10515-16	Sept.26		Owen	MVPI	La Biche crossing; location of borrow; right-of-way width; Kotaneelee crossing
	10523			Owen		Kotaneelee crossing; terrain conditions
	10554			Longlitz	MVPI	Bank stability, Section 33 of Fisheries Act interference with winter or summer water flow
	10566-97			Lewis	MVPI	Research, ice slump along the banks of the Babbage River; inactive flood plains; terraces on the upper Blow River, Firth River
71	10629-30	Oct.14		Bayly Longlitz	COPE/ITC	Stream crossings; section F of the land use regulation re: clean-up of debris; section 31 re: failure to clean-up; bonds and security deposits
	10636			Bayly Longlitz		Section 7; contact with Fisheries Dept.; jurisdiction over water crossings, fish
72	10742	Oct.15		Berger		Frost heave of a chilled pipe at river crossings; elevated pipe; Dr. Williams' testimony; questions to Dr. Clark
	10771-76			Lewis	MVPI	River crossings re Malcolm, Babbage, Firth; data, drilling, re scour; Alaskan and Yukon North Slope rivers; reports; sub-surface materials
73	10826-27	Oct.16		Clark	CAGPL	Dr. Williams' testimony; conditions at river crossings versus conditions of overland frost heave
	10963			Morgenstern	CAGPL	Potential land slide sites
	10966-68			Harlan	CAGPL	Firth and Malcolm rivers; CAGSL research; use of culverts
75	11079-80	Oct.20		Weeden	CARC	Impact on fish of pipeline crossing streams and rivers; winter construction scheduling; long term effects
	11102-04			Parker	CARC	Impact of erosion, siltation caused by construction on fish populations; winter construction of river and stream crossings; increased sediment load at breakup
76	11222	Oct.21		Parker	CARC	Winter roads, duration of use; ice thickness and equipment weight at river and lake crossings
	11291			Parker		Corridor concept; use of same right-of-way, problems at river crossings, erosion control
77	11400	Oct.22		Rutter	CARC	Melt water channels; low banks; erosion; difficulty in crossing
	11472-87			Roed	CARC	Water crossings Great Slave Lake to Slave River, Little Buffalo River Kugaluk River, Miner River headwaters;
78	11520	Oct.23		Roed		Crossing of Great Bear, Great Slave Lakes
	11552-55			Roed		East of the Franklins route; minor crossings at headwaters of Kugaluk River, Hare Indian River, Iroquois, Minor, Wolverine and Willowlake Rivers
	11588-93			Roed		Willowlake River, Thunder River, River Between Two Mountains; steep valley walls; east of the Franklins
	11653-58			Minning	CAGPL	Route location and design; straight channel river characteristics; flood and water flow; impact on river flow re: sediment, withdrawal of water
79	11697-98	Nov. 3		Minning		Temporary stream crossings removed before break-up at borrow sites

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80	11814-47	Nov. 4	YK	Clark Harlan	CAGPL CAGPL	Drainage and erosion control measures to be employed in river crossing design
	11831-32			Williams Clark	CAGPL	Route alterations considered at ten river crossings
	11871-73			Hemstock McCart	CAGPL CAGPL	Concern of environmentalists re crossings at Thunder River and area where elevated crossing recommended
	11887-89			Williams	CAGPL	Route change considerations at Great Bear River and Rapid Creek because of bank instability problems
81	11992	Nov. 5		Williams		Concern re crossing of Thunder River
82	12257-58			Williams		River crossings would cause greatest concern in future
	12267-70			Harlan	CAGPL	Impact of slope failures related to river crossings
	12327-29			Scott	MVPI	Crossing of Kotaneelee River by Pointed Mountain line
83	12331-34	Nov. 7		Scott Dabbs	CAGPL	Revegetation of slope at Kotaneelee River, Pointed Mountain Pipeline; drainage and erosion control
84	12533	Nov. 8		Anthony Environmental Panel	CARC CAGPL	Ground water flow, frost bulb, culverts, North Slope rivers; ice bridges; siltation, excavation
85	12636	Nov. 12		Bayly McCart	COPE/ITC CAGPL	Fish in Malcolm River not affected by crossing
	12710-37			Scott Environmental Panel	CAGPL	Detailed information, engineering environmental, Blackwater River typical
85A	12777-90			Scott McCart		Causing siltation, effects on fish, controls
	12798-12800			Marshall	CAGPL	Will supply information on designs
86	12802-08	Nov. 13		Environmental Panel	CAGPL	Design, fish impact
	13046			Williams		Mackenzie, near Fort Simpson, winter; small streams, Bailey bridges
87	13097-98	Nov. 14		Bayly Reeves	COPE/ITC Foothills	Possibility of archaeological sites at crossings; conflicts
88	13305-12	Nov. 17		Bouckhout Claridge	Foothills Foothills	Impact on fish, siltation control, water by-pass methods
88-A	13352			Gibbs	Foothills	CAGPL request for soundings information, Swimming Point crossing
	13386			McCart	CAGPL	Berms as obstruction to fish passage
90	13738-63	Nov. 19		McCart		Impact on fish, berms at Great Bear River, Swimming Point, velocities, siltation
91	13775-77	Nov. 20		McCart Marshall	CAGPL	Additional information, Great Bear River, Mackenzie River, east channel, relocations, berms
	13832			McCart		Siltation experiments
	13865-67			Gibbs		Pipe carrying Alaskan gas shorter via cross delta route
92	13982-86	Nov. 21		McCart		Kotaneelee River, Pointed Mountain, siltation due to bad construction; unpredictable changes in rivers
	13988-95			McCart		Use of culverts, bridges; design of culverts; increased siltation
	14028-59			Hemstock	CAGPL	Application of data from other river crossings to Mackenzie Valley line; validity; summer and winter construction; appropriate preventive measures at specific streams; stream catalogue; overwintering fish; monitoring siltation under ice
93	14073-76	Dec. 1		Hemstock		Pipe breaks during methanol testing phase; at river crossings impact on fish
94	14334	Dec. 2		Banfield	CAGPL	Consideration of cumulative factors re: Guidelines
96	14616-18	Dec. 4		Marshall McCart		Blasting, Great Bear River; winter drilling; fish concerns
	14630-31			Marshall	CAGPL	Use of Dempster Highway river crossing on the interior route

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97	14773	Dec.5	YK	Hemstock	CAGPL	Old prime route near Fort Simpson crossed Liard, Mackenzie rivers
	14802-03			Templeton Gunn	EPB CAGPL	Crossing north slope rivers at right angles to minimize impact on willow thickets
99	15121	Dec. 9		Hayden	Foothills	Evaluation, relocation of sites
100	15194	Dec. 10		Bouckhout	Foothills	Kotanelee River, Pointed Mountain line, mitigation
	15285-318			Hayden		Information on fish required from studies to make recommendations; experiments
	15325-32			Bouckhout Finney Hayden Whitney	Foothills Foothills	Relocation, Holmes Creek crossing, reasons; fish; birds in area
	15335-38			Whitney Hayden Bouckhout		Crossings on abandoned CNT line, degradation
101	15431-32	Dec.11		Peterson	CARC	Firth, Ware Indian, Willowlake, Malcolm crossings, recommended as avoidance areas, Guideline #4
103	15723	Dec.15		Stein	CARC	Increased levels of suspended sediment load
	15756			Steigenberger	CARC	Summary of Report 73-6, Freshwater fishery resources of North Yukon
	15791-92			Millen	CARC	Design considerations, remedial measures
	15809-13			Stein Millen	CARC CARC	Sites re fish spawning grounds; ice bridges and winter flow variation at crossings
	15824-26			Stein Marshall	CAGPL	Simpson route change re Three Day Lake - Stewart Creek system, Rabbitskin, Liard, Martin rivers
	15835-38			Stein Marshall		Compared to impact of all-weather roads paralleling streams tributary to Mackenzie River
	15871			Stein		Further study recommendation
	15890			Steigenberger	CARC	Protection of fish spawning, overwintering areas in close proximity to proposed crossing sites
104	15925-37	Dec.16		Steigenberger Walker Stein Millen	CARC	Fisheries Service activities re Rengleng, Rock, Kotanelee, LaBiche, Martin Rivers crossings, multiple crossings
105	16006	Dec.17		Marshall		Assessment of crossing location along pipeline
	16026-28			Stein		River Between Two Mountains and Willowlake River re bridge crossings; effect of highway on stream crossings
	16043-52			Steigenberger Stein		Protection of fish and effects of frozen water conditions re spawning; guarantee of unchanged crossing site; watershed re impact assessment of crossing; emphasis on crossing site and area below
	16059-61			Marshall Millen Steigenberger Walker		Rules and guidelines suggested re crossings; water and gravel removal
	16069-70			Millen		Selection of standard designs for each stream re precautions re drainage erosion control
	16078-80			Stein	CARC	Boring program extended downstream from specific crossing site re critical areas
	16096-100			Stein		Effects on fish re sedimentation control, migration routes, reaction to dredge and berm
	16108-10			Steigenberger	CARC	Effects of gravel removal re fish resource
108	16489-90	Jan.13		Adam	EPB	Ice bridges; climate; bridge strengths, loads, construction scheduling
109	16671-72	Jan.14		Templeton	EPB	Separation of pipeline and highway stream crossings at named points; relocations; recommendations
C-25	2568-69	Sept. 8	FS	Black	Citizen	Spur line route to Fort Simpson
C-26	2632	Sept. 9		Sanguay	Citizen	Concern re: power of river
114	17281	Jan.22	In	Mainland	GPC-D-I	Taglu gas field, no river crossings by gathering line
	17424-28			Faulkner	GPC-D-S	Niglintgak gas field, Kumak channel crossing, little known

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115	17468-75	Jan.23	IN	Faulkner	GPC-D-S	Niglintgak gas field, crossing Kumak channel; economic viability; alternate crossing technique
	17518-22					Kumak channel near Niglintgak gas field, problems with gathering line crossing
116	17652	Jan.24		Rempel	GPC-D-I	Temporary siltation of water body caused by crossings for permanent roads
121	18429	Feb.10		Stein	COPE/ITC	Dredging for delta crossings - impact on fish resource
122	18558-60	Feb.11		Stein	COPE/ITC	Holmes Creek - measures to protect critical fish habitats from development
	18696-99			Stein		Impact of dredging, siltation on Delta fish
126	19247-49	Feb.16		Snow	COPE/ITC	Impact of siltation from construction on fish food organisms
127	19452-53	Feb.17		Trudeau	COPE	Environmental problems, flooding, erosion, siltation
130	19740-52	Mar.16	YK	Williams	CAGPL	Evidence in chief re cross-Delta route crossings of West, Moose, Middle, Langley, Reindeer, East Channels, Shallow Bay etc.
	19760-6I			Hollingshead	CAGPL	Design discharge of Peel River, outer Delta flooding taken into account for Delta crossings; twinning of line
	19771			Williams		Construction plan for the cross Delta, summer installation of major river crossing
	19787-88			Gibbs Williams	Foothills	Delta channels to be crossed by pipeline are unique; amount of water crossing per mile
	19798-838			Williams Purcell	CAGPL	Construction of crossings, Tununuk Point, Langley Channel, West Channel, Shallow Bay, Middle Channel; two 36 inch lines instead of one 48; definition of major river crossing; Bear River, south of Fort Simpson, major crossings; dredging, pipe below water level, discharge of excavated material
131	19840-72	Mar.17		Engineering Panel	CAGPL	Construction of Shallow Bay crossing
	19878-80			Clark Williams	CAGPL	Gravel requirements, Cross-Delta route crossings
	19885-97			Purcell	CAGPL	Use of twin 36-inch lines under Delta channel crossings; dredging, ditch dimensions,
	19953-76			Williams	CAGPL	Delta channel crossings; original prime route versus Cross-Delta re crossings
	19981-20003			Williams		Delta crossings, construction techniques, dredging, support vessels, backfilling trench, installing pipe, timing, gravel backfill requirements, distance between twin lines, water flow in channels
	20009-13	Mar.18		Hollingshead	CAGPL	Scheduling, crews, dredging, pipe installation, backfilling of channel crossings, cross-Delta route; traffic blockages due to construction in channels, use by local people; pipe failure, twin lines
132	20009-13	Mar.18		Hollingshead	CAGPL	Bank erosion, Shallow Bay; inspection of large crossings by soundings, divers, etc.
	20015-25			Williams		Selection of cross-Delta route to avoid difficult crossings; crossings on Barry route; twinning of pipes
	20032-36			Cooper	CAGPL	Comparing difficult crossings on various Delta routes
	20042-96			Engineering Panel	CAGPL	Cross-Delta route river crossings
	20148-50			Hollingshead		Kumak Channel, Niglintgak supply lateral, scheduling
133	20128-34	Mar.23		Rowe	CAGPL	Cross-Delta crossings to be done in summer; minor impact on fish, Shallow Bay crossing; avoidance of difficult crossings on old prime route
	20146			Gunn	CAGPL	Impact on geese, Shallow Bay crossing
	20152			McCart	CAGPL	Impact on fish, cross-Delta route crossings
	20164			Rowe		Thunder River crossing below moose wintering grounds

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133	20184	Mar. 23	YK	McCart	CAGPL	Crossings of various cross-Delta routes compared, impact on fish
134	20208-10	Mar. 24		Environmental panel	CAGPL	Erosion control techniques, west side, Shallow Bay crossing
	20230			McCart		Impact on fish, Delta river channels
	20245-47			Webb Scott	CAGPL MVPI	Impact on whales, boat and air traffic, Shallow Bay crossing
	20253			Webb		Reaction of whales to noise of Shallow Bay crossing construction
	20275-77			Gunn	CAGPL	Construction of Shallow Bay crossing in two summers to minimize impact on wildlife
	20305-07			McCart		Minimizing impact on fish overwintering sites, studies to be done
	20311-12			McCart		Possible realignment of cross-Delta route to minimize impact on fish
	20320-23			Webb		Construction, Shallow Bay, conflicting with whale presence
	20335			Gunn		Waterfowl moulting near Delta crossings
	20367			Gunn		Recommendation to minimize impact of Shallow Bay crossing on waterfowl
135	20428-29	Mar. 25		Webb		Ditch spoil material, Shallow Bay may act as barrier to whales
	20454-89			Dabbs McCart	CAGPL	Shallow Bay, revegetating banks, construction pads; crossings, cross-Delta route, measures to reduce impact on fish; Barry route crossings
	20501-02			McCart		Kumak Channel, Niglintgak supply lateral, impact on fish migration, overwintering
	20509-10			Gunn	CAGPL	Kumak channel, Niglintgak supply disturbance
	20519-24			Banfield Hemstock	CAGPL CAGPL	Thunder River site change; bank stability, Shallow Bay, Reindeer and Langley channels
136	20618-20	Mar. 26		Dabbs Hemstock	CAGPL	Crossing of North Slope river fans difficulty with "DEW line route"
	20652			Sprague	MVPI	Siltation due to construction
	20655-56			Sprague		Use of biological standard to guard against siltation
	20679			Sprague		Different siltation standards may be required for different river types crossed
	20711			Peet	MVPI	Shouldn't be near commercial, domestic, sports fisheries
161	24788-89	July 12		Williams	CAGPL	Typical crew size; variations due to size of crossing to be constructed
162	24955-66	July 13		Carlson		Operations and maintenance techniques, twin crossings
	25059-61			Trusty		Camp at Great Bear River crossing near Fort Norman; camp near Fort Simpson, Mackenzie River crossing
C-76	8364-65 8368-70	Aug 25	DET	A. Liske Steeves Burrell	Citizen CAGPL Foothills	Fear of pipe cracking and shifting in winter frost heave concern of NFB; try to avoid when possible, safety feature of pipe
191	29764-65	Sept. 24	YK	Hagglund	MVPI	Kakisa bridge between Enterprise and Fort Simpson; not all river crossings have bridges; ferry service at Fort Simpson; ice bridges
194	30375-76	Oct. 6		Hemstock	CAGPL	Scheduling of oil, gas pipeline crossing to avoid synergistic impacts
	30428-29			Lipsett	MVPI	Distance between oil, gas pipeline crossings on Great Bear River - several miles
197	31063-65	Oct. 13		Norton	MVPI	Monitoring problems of low water crossings encountered by JFWAT
	31123-24			Norton		Problems of crossing streams in winter in Alaska
199	31582	Oct. 15		Zemansky	COPE	Alyeska stream crossings, siltation indicates violation of water quality standards, mitigative measures not used
	31586-87			Zemansky		Joint State Federal Fish and Wildlife Advisory Team report re: construction of Tolovona River crossing

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201	31778-79	Nov. 16	YK	Marshall	CAGPL	Application of standard project flood design unduly conservative
202	32054-55	Nov. 17		Anthony	CARC	Economic viability of overhead crossing should be re-examined

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XVII	1956-58	Mar.13	YK	Bayly Mollard	COPE/ITC CAGPL	Characteristics, consideration in route selection, east vs. west side of Mackenzie
XIX	2181-83	Mar.17		Clark	CAGPL	Icings, ice jams, river bed scour
	2220			Clark		Studies of river regimes, ice break up, Point Separation
XIX A	2252	Mar.17		Clark		Collection of data
	2255-58			Berger		Ice jam data; on-going studies, effect on design
	2258-59			Hardy	CAGPL	Need for data; ice jamming
XX	2394-95	Mar.18		Clark		Lateral migration; sag bends; bank reinforcement; ice jams & river scour; thermal niching; channelization in braided streams
	2398-2400			Cooper	CAGPL	
XXI	2428-35	Mar.19		Hollingshead	CAGPL	Slide presentation: meanders, lateral migration; channel depth; meanders - Big Smith Creek, Martin River; down-valley shifting of meander patterns; lateral migration - use of aerial photography
	2451-60			Cooper		Slide presentation: scour resulting from ice jams; ice jam studies, Mackenzie River, formation, profiles, etc.; pressures acting on the ice; 1974 ice jam at the Ramparts
	2463-67			Cooper		Slide presentation: lateral migration, location of sag bends; down stream meander migration, use of aerial photographs; use of data re: locating river crossings; floodplain terminology
	2504-07			Cooper		Ice jams, resultant scour, importance in route location; distance between pipes at twinned crossings
XXII	2632-34	Mar.20		Cooper		Normal river ice process - ice jam; flow under ice cover
XXIV	2828-35	Apr.7		Hardy Williams	CAGPL	Blasting of ice jams, rock - North Slope; effect on caribou
XXV	2964-74	Apr.8		Cooper		Scour due to ice jams
	2991-98			Cooper		Gouging by ice cakes, danger to pipeline
	3029-34			Hollingshead		Meander, shifting channels - prediction of rate
	3035-42			Cooper		Avulsion, braided streams - changes in channel direction
	3049-54			Hollingshead		Ice jams - blasting
	3056-60					Sec. 8A, P. 6 Application - beaded rivers
XXVI	3103-13	Apr.9		Cooper	CAGPL	Melting of ground ice, ice cakes, gouging
XXVIII	3437-47	Apr.10		Clark	CAGPL	Braided portions; permafrost below bed
XXIX	3567	Apr.14		Scott	MVPI	Northern River dry bottom
42	5424-25	May 21		Fielder	CAGPL	U.S.S.R., few ice jams
51	6802-03	Aug. 11	WH	Hemstock	CAGPL	Selection and rejection of routes and alternative corridors; aspects of repair, ice-covered waters; environmental considerations
55	7602-05	Aug. 15		Hughes	CARC	Glacial silt; location; gravel terraces; glacial lake sediments; clay sill
61A	8720	Sept. 15	YK	Walker	Foothills	Potential for river bed degradation; bed scour; course stability; icing effects; flooding; surface and sub-surface drainage
64	9300-11	Sept. 18		Spafford	Foothills	Regimes described at each of the pipeline crossings
65	9461-88	Sept. 19		Spafford		Soundings; routing considerations
	9636			Jarvis	Foothills	Ice wedging, stream blockage
70	10567-76	Sept.26		Lewis	MVPI	Slope stability, flood plain, water flow channel characteristics of the Firth, Blow and Babbage Rivers
72	10769-72	Oct. 15		Lewis		Flood plains; braided gravel river; active channels; Blow River re: feet of fill Malcolm River re: river crossing, unfrozen depths; Yukon North slope rivers; Firth River; level of precipitation; frozen depths; scour and bank erosion; channel stability

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77	11349-442	Oct.22	YK	Rutter	CARC	Topography, terrain characteristics; areas of lacustrine and eolian sediments; river bed characteristics; banks, meltwater flow; erosion; slope stability; Blackwater River, Willow Lake River
	11452-88			Roed	CARC	Edge of the shield route; river crossings; bank and slope stability; terrain advantages
79	11687-11700	Nov. 3		Minning	CAGPL	Borrow operations related to flood plains, active stream channels; alluvial deposits
	11732-43			Harlan	CAGPL	Slide presentation on the problems associated with icings
	11758-60			Minning		Removal of borrow from river channels
	11841-47			Harlan		Flood data assembled on rivers to be crossed
81	12074-76	Nov. 5		Dabbs	CAGPL	Organic material on fossil flood plains
	12101-02			Scott	MVPI	Resolution required of ground water use, ground water becoming surface water
	12114-33			Minning McCart	CAGPL	General concerns re removal of granular material from braided streams
82	12200	Nov. 6		McCart		Agrees that streams on interior route in Canada more stable than on coastal route
83	12440-12465	Nov. 7		Scott Environmental Panel	CAGPL	North Slope rivers, seasonal depths and flow, active plains and channels, flooding
85	12666-75	Nov. 12		Bayly Environmental Panel	COPE/ITC CAGPL	North Slope rivers, channel migration, bed and bank erosion, gravel mining
88	13311-12	Nov.17		Claridge	Foothills	Information for river crossing design
92	13985-86	Nov.21		McCart		Kotaneelee river; unpredictable changes in rivers
100	15259-61	Dec. 10		Hayden	Foothills	Placing streambed material in culverts to aid fish movements
	15350-51			Bouckhout	Foothills	Will study orthophotomosaic to see if borrow pit, Trout River, is in active flood plain
103	15725-30	Dec.15		Stein	CARC	Annual freeze/flow variation in streams; utilization of standard trenching techniques; special sediment controls
	15762-88			Steigenberger	CARC	Prime, Interior routes re fish habitats, groundwater flow, oxygen content, ice formation, drainage area; guidelines and recommendations re gravel removal; river bed monitoring
	15837-38			Stein Marshall	CAGPL	Related to extent of sedimentation impact
104	15842-44	Dec.16		Stein		Synoptic helicopter studies re system characteristics and aquatic resource abundance, potential spawning sites
105	16106	Dec.17		Stein		Guideline for fish protection during highway construction unsuitable for North Slope re nature of streams; below high water mark and above wetted perimeter re gravel removal; braided rivers
	16122-26			Ryder	MVPI	River mouth re highway crossings, wharf sites; tributary stream
C-28	2824-25	Sept. 10	Wr	Horesay	Citizen	Ice breakup re: damage to pipeline
C-29	2859	Sept. 12	JMR	Sanguiez	Citizen	Ice jam damage
114	17373	Jan.22	In	Mainland	GPC-D-I	Taglu gas field, flooding by ice-jamming in Mackenzie, precautions
116	17699-700	Jan.24		Rempel	GPC-D-I	Clean-up of oil spills on ice, under ice and in moving ice
117	17759-60	Jan.26		Webb	GPC-D	Ice conditions offshore Delta, effect on whales
126	19289-94	Feb.16		Snow	COPE/ITC	Potential for use of annual maximum discharge being able to remove added sediment from river substrates as a criterion for fish protection
130	19761	Mar.16	YK	Hollingshead	CAGPL	No evidence to show water build-up behind river ice in Delta during breakup
	19790			Hollingshead		Site specific studies of ice breakup

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131	19895-96	Mar.17	YK	Hollingshead	CAGPL	Differences between ice breakup at Point Separation and other channel crossing sites
	20003			Hollingshead		Ice jams, Shallow Bay
132	20044-47	Mar.18		Hollingshead Williams	CAGPL	Difficult to work on broken pipe during spring breakup; channel movements of braided rivers, width of fans, North Slope rivers
	20061-72			Cooper	CAGPL	Causes of hole in bottom of Shallow Bay; effects of frost bulb on bottom of Bay
	20087-94			Cooper		Flow causing holes on bottom of Middle, other channels in Delta
191	29779-83	Sept.24		Hagglund	MVPI	Operations problems on Mackenzie River system: weather, spring ice break-up, water levels, rapids

RIVERS - SCOUR , BED DEGRADATION

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XIX	2181-83	Mar.17	YK	Clark	CAGPL	Ice jams and resultant ice scour
XIXA	2276			Clark		Scour depths; burial of pipe
XX	2395-98	Mar.18		Clark		PAAG concern, local bed scour, accuracy of predictions, ice jams, depth of burial; general degradation of bed
XXI	2427-34	Mar.19		Hollingshead	CAGPL	Slide presentation: bed degradation; aggradation, alluvial fans; scour; river bends, scour depth; methodology to establish a safe burial depth
	2442-51			Cooper	CAGPL	Slide presentation: scour resulting from open water processes; local scour, unconfined meanders; scour holes; computing scour; Salcha River; local scour, confined bends; use of flow, bankfull conditions, flooding, etc. in computations; Bell River; confluence of two channels
	2451-63			Cooper		Slide presentation: scour resulting from ice jams, constricted flow, pressures acting on the ice; scour depths, Mackenzie River; 1974 ice jam at the Ramparts; channel degradation; rapids; effect of borrow areas, sediment transport; removal of sediment from a river
	2470-71			Cooper Hardy	CAGPL	Scour holes; thalweg; burial depth
	2500-10			Cooper Hardy Hollingshead		Scour recent consideration in building pipeline; Trans-Mountain system, T. Blench; ice jamming in Mackenzie River, twinning of lines, width of separation, Shallow Bay, one channel width; insurance against break
XXII	2630-38	Mar.20		Cooper		Scour under icing, ice jamming, frost bulb around pipe
XXIV	2835-42	Apr.7		Hardy		CAGPL response - accuracy and reliability of predictions
XXV	2964-74 3024-30	Apr.8		Cooper		Scour measurement and prediction Prediction of scour
	3034			Cooper		Estimate of maximum scour depth
	3078-79			Cooper		Design - scour depth computations
XXVI	3094-3101	Apr.9		Hollingshead		Drill holes
42	5419-21	May 21		Hurd	CAGPL	Shallow Bay, effect on pipeline
61-A	8720-27	Sept.15		Walker	Foothills	Bank stability; ice and permafrost area; river channel shifts; frost bulb growth; potential bed scour; course stability; icing effects; seasonal floods
	8757-60			Marshall Berger Mirosh	CAGPL Foothills	Depth of ice scour; burial depth of pipes at river crossings; width of rivers at Shallow Bay, Fort Simpson; Mackenzie River at Swimming Point, single pipes versus dual pipes at river crossings failure
62	8778-84	Sept.16		Walker Mirosh		Consultants; studies; completion dates of studies; depth of cover at Swimming Point
64	9274	Sept.18		Yip	Foothills	Unies Consultants - to advise Foothills re: scour and flooding
	9300-11			Spafford	Foothills	Data on scour for final design; estimates of scour depth; channel regime; method of scour calculations
	9424-28			Spafford		Borings into alluvium to check depth of scour a large, flat streams
65	9463-88	Sept.19				Prediction of scour; formula

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RIVERS - SCOUR, BED DEGRADATION

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70	10574	Sept.26	YK	Lewis	MVPI	Blow River; gravel deposits; bed armour resists scour; Babbage River
	10581-86			Lewis		Depth of pipe burial in river beds; depths of maximum river scour; ice jams; river channel changes; ice channeling; potential downstream effects; erosion
72	10773-76	Oct. 15		Lewis		Yukon North Slope rivers; frozen ice beds; spring floods; bed scour; bank erosion; channel constriction; perennial icing; aufeis deposits; Alaskan rivers
80	11846-47	Nov. 4		Clark	CAGPL	Scour at breaks - regime scour method used for river situations
82	12188	Nov. 6		Clark		Rivers with non-frost susceptible gravel
85	12715-30	Nov. 12		Scott	MVPI	River crossings, Blackwater River as an example
				Environmental Panel	CAGPL	
103	15785-88	Dec.15		Steigenberger	CARC	Further study required of North Slope rivers re fisheries
C-38	3674-75	Feb. 15	In.	Rowe	CAGPL	Danger to pipeline from river bed scouring by ice, studies conducted by applicants re: ice scour
				Mirosh	Foothills	
				Koe	Citizen	
114	17396-98	Jan.22		Mainland	GPC-D-I	Scour in Delta channels
	17409			Mainland		Taglu gas field, flood and storm wave heights
115	17518	Jan.23		Faulkner	GPC-D-S	Kumak channel near Niglintgak gas field
118	18095	Jan.27		Goudge	MVPI	Ice scour, gas plant on island construction
				Horsfield	GPC-D-I	
119	18128-33	Jan.28		Shearer	COPE	Scour depths; plotting of frequency in range, geographic distribution; water depth to scour; direction of scour marks; sea ice scour.
124	19032-53	Feb.14		Shearer		Equipment used in scour definition; ice scour in Shallow Bay, scour holes
				Lewis	COPE/ITC	
130	19790	Mar.16	YK	Hollingshead	CAGPL	Channel soundings at crossings in cross-Delta route
131	19895-98	Mar.17	YK	Hollingshead	CAGPL	Scour problems, Point Separation worse than other channel crossing sites; scour holes with steep slopes
	19971-72			Hollingshead		Scour, Delta channel crossings
	20003-06			Hollingshead		Scour problems unlikely in Shallow Bay; types of scour
				Cooper	CAGPL	
132	20043	Mar.18		Cooper		Scour problems at Point Separation crossing
	20056-78			Hollingshead		Movement of bottom sediment, Shallow Bay; holes on bottom of Bay, causes, nearness to crossing; effects of frost bulb on scour; studies to be done; compaction due to melting permafrost
				Cooper		Flow causing holes in bottom of Middle, other channels in Delta
	20087-92			Cooper		
C-41	3925-26	Mar.3	HOL	Memoganak	Citizen	Pressure of ice will scour sea bottom, effect of oil spill

RIVERS - WATER FLOW AND LEVEL

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XVII	1973-75	Mar.13	YK	Bayly	COPE/ITC	Stream flow data - availability
	1998			Dau	CAGPL	Flood time; repair of pipe failures
XIXA	2285	Mar.17		Clark	CAGPL	Interior route; alluvial fans
XX	2390-34	Mar.18		Clark		Construction pads at river crossings, berms, increased velocity
				Hollingshead	CAGPL	Impact on fish populations; Great Bear River
XXII	2628-34	Mar.20		Clark		Spring run-off, icing, flooding, scour, ice jams
				Cooper	CAGPL	
XXIII	2741-42	Mar.21		Hardy	CAGPL	River pattern shift, flood
XXIV	2810-17	Apr.7		Cooper		Gauging volume, measurement of sedimentation, river analysis
				Hardy		
XXV	2990	Apr.8		Cooper		Holes - reversing flow in channels
	3059-60			Clark		Bed flow
	3062-83			Cooper		Design flow - rate at which volume passes, flooding

RIVERS - WATER FLOW AND LEVEL (continued)

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XXVII	3323-25	Apr.10	YK	Williams	CAGPL	Test areas, spring flooding
XXVIII	3436-40	Apr.11		Scott	MVPI	Water flow in winter
	3468-71			Morgenstern	CAGPL	Water release, flow, icing explosions
	3497-3501			Scott		Mackenzie one-hundred year flood
XXIX	3562-63	Apr.14		Cooper	CAGPL	Plot flood frequency curve
XXXII	4122-23	Apr.18		Reid	CAGPL	Warm water testing depends on flow
XXXIII	4269	Apr. 21		O'Rourke	CAGPL	Navigation season, barge capacity
XXXIX	5086-88	May 15		Williams		Assurance of flow at river crossings
47	6162-64	June 3		Wilimovsky	EPB	Flow through culvert, fish movement
C-16	1481-82	July 13	O.C.	P. Nukon	Citizen	Swift creeks, damage to pipeline
62	8778-84	Sept.16	YK	Walker Mirosh	Foothills Foothills	Studies; hydrological
64	9300-11	Sept.18		Spafford	Foothills	Channel regime at pipeline crossing sites, runoff periods, stream flow statistics, subsurface flows, buoyancy, weighting
	9409-14			Spafford		Documents relied upon re: rivers flowing into Mackenzie
65	9463-88	Sept.19				Permeability and frost bulb formation; water level criterion
	9562			Claridge	Foothills	Sheet flow and poorly defined stream channels
70	10556	Sept.26		Longlitz	MVPI	Lowering of river banks; impact of spring break-up and flooding; erosion and siltation
	10567-94			Lewis	MVPI	Babbage, Blow and Firth rivers; characteristics of channel patterns; siltation; flow data; bedload movement
72	10747-57	Oct. 15		Lewis		Water flow through discontinuous permafrost; rivers, underground rivers; hydraulic gradients; mass movements; culverts go through frost wall or frost bulb; water concentration around a river; flow under the river through the soil; Battelle Model
	10768-76			Lewis		Active channels; flood plain level; mean annual discharge; mean annual flood; use of river bed gravel; Malcolm River re: sub-riverbed materials; new icing and channel constriction; channel stability
75	11137-38	Oct.20		Parker Weeden	CARC CARC	Hydrographic analogy of a pipeline across a wilderness area
76	11148-55	Oct.21		Parker Weeden		Data re: river hydrology, Sag River Valley; research, soils, knowledge of the corridor
	11185-86			Parker	CARC	Colville River; water availability for construction purposes
77	11354-442	Oct.22		Rutter	CARC	River bed characteristics; terrain hazards re: pipeline routing; flooding and surface run off; abandoned melt water channels; river crossings; Blackwater River, Willowlake River
	11452-88			Roed	CARC	Edge of the shield route; river crossing; slope stability; ponding
78	11637-65	Oct.23		Minning	CAGPL	Water resources, Liard, Great Bear Rivers, spring break-up and flooding; drainage areas, discharge; terrain conditions and influence on flow; stream flow, fish resources; ground water and surface water activity
79	11687-11700	Nov. 3		Minning		Borrow operations related to active flood plains, river channels, stream channels, alluvial deposits, borrow operations with respect to active flood plains
80	11840	Nov. 4		Harlan	CAGPL	Data collected on flooding of rivers where borrow operations conducted
	11892-97			McCart Minning	CAGPL	Effects of mining gravel in flood plains, active channels
	12071-76			Minning		Gravel removal from stream beds and active flood plains

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81	12093-12114	Nov. 5	YK	Harlan McCart	CAGPL CAGPL	Ground water sources; concerns re impact on fish from water use in rivers; alteration of flow
	12114-33			McCart Minning	CAGPL	Effects of removal of borrow from braided river channels
82	12270-75	Nov. 6		Hemstock	CAGPL	Aim to prevent change in water levels of lakes, rivers
83	12429-38	Nov. 7		Scott Environmental Panel	MVPI CAGPL	No mining of gravel below water level in active flood plain, spread C
	12440			Scott Environmental Panel	CAGPL	North Slope rivers, Seasonal depths, active flood plain, active channels, flooding, flow measurement
84	12533-49	Nov. 8		Anthony Environmental Panel	CARC CAGPL	Sub-surface flow, North Slope rivers, culverts, insulated pipe, studies; water in gravel pits near streams
	12559-79			Anthony Hemstock McCart	CAGPL CAGPL	Water withdrawal, minimum flow level of source, river narrowing, location of campsites; culverts at river crossings
	12599-12609			Bayly McCart Williams	COPE/ITC CAGPL	Komakuk Beach compressor station, water withdrawal, lake volumes, river flow
85	12652	Nov. 12		Harlan	CAGPL	Aquifers dependent on large rivers less dependent on climate
	12715-37			Scott Environmental Panel	CAGPL	Details for river crossings, Blackwater River as example; water withdrawal, Firth River
85A	12761			Scott McCart	CAGPL	Flow in Mackenzie
	12773-90			Scott McCart		Silt loads, Mackenzie
86	12806	Nov. 13		Hemstock	CAGPL	Flow at river crossings
	12901-15			Bouckhout	Foothills	Active flood plain, definition
89	13483	Nov. 18		Jakimchuk	CAGPL	Caribou crossing flooding rivers
90	13741-63	Nov. 19		McCart	CAGPL	Increased flows due to river crossing berms, Great Bear River, Swimming Point, impact on fish
92	13991-95	Nov. 21		McCart		Culverts, increase in river velocity and sedimentation
93	14065-68	Dec. 1		McCart		Spring break up and flooding; clean up of snow roads and bridges; fish passage
103	15792	Dec. 15		Millen	CARC	Maintaining flow at crossings
	15810-13			Stein Millen	CARC	Winter flow variation
105	16072-73	Dec. 17		Millen		Mackenzie Highway re design flood
	16101-03			Stein		Large winter crossings re flow rates and patterns
114	17287-90	Jan. 22	In	Mainland	GPC-D-I	Taglu gas field, protecting pipes, facilities from annual flooding
	17330-31			Mainland		Taglu gas field, hydrology of area done, river and storm flooding
	17371-72			Mainland		Taglu gas field, precautions against channel shifts due to flooding
	17389-91			Mainland		Taglu gas field, precautions against river, storm flooding
115	17459-64	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, possible flooding by Mackenzie, precautions
	17495-96			Faulkner		Niglintgak gas field, floods causing gas line rupture
	17518			Faulkner	GPC-D-S	Kumak channel, large flow making difficult crossing for gathering line to Niglintgak plant
116	17717	Jan. 24		Appleton	GPC-D-G	Influence of flow lines on reindeer movements
130	19759-61	Mar. 16	YK	Hollingshead	CAGPL	Discharge measurements of major Mackenzie Delta channels; design flows of Peel and Mackenzie Rivers at Point Separation; flooding in Outer Delta
	19789			Hollingshead		Channels divide flow of Mackenzie, are not tributaries
	19815-16			Williams	CAGPL	Difficulty of repairing failures because of flooding

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131	19862	Mar.17	YK	Williams	CAGPL	Pipe buoyancy problems in spring flood season, Cross-Delta route
	19896			Hollingshead	CAGPL	Currents at cross-Delta route crossings slower than at Point Separation site
	19973-76			Hollingshead		Design discharge flow for Delta river crossings; additional flow caused by BeaufortSea storm
132	20019-25	Mar.18		Williams		Difficulty of Langley Channel crossing on Barry route, river depth
	20088-89			Cooper	CAGPL	Flow at breakup not enough to scour bottom at crossing of middle channel
134	20243-45	Mar.24		Webbs	CAGPL	Warm water plume, Shallow Bay
135	20467-72	Mar.25		McCart	CAGPL	Delta channels, flow to support overwintering fish

RIVERS - ARCTIC RED

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45	5882-84	May 24	YK	Bayly	COPE/ITC	Reference to Peel Plateau
46	6072	June 2		Craik	EPB	EPB fish survey studies
93	14071	Dec.1		Ryder McCart	MVPI CAGPL	Suspected spawning areas
101	15430	Dec.11		Peterson	CARC	Important fishing area; proposed avoidance area, Guideline #4
103	15735-36	Dec.15		Stein	CARC	Avoidance by pipeline route
	15825-26			Stein		Re Simpson route change, original route
104	1501			Stein		Documented spawning site
C-34	3260	Oct.15		Duesterhus	Citizen	Storm over headwaters in "Hydrologic Aspects of Northern Pipeline Development 1973"
114	17349	Jan.22	In	Bayly	COPE/ITC	Unable to locate borrow source here for artificial offshore island for oil/gas exploration
121	18426	Feb.10		Stein		Spawning migrations of anadromous fish species
122	18552-53	Feb.11		Stein		Fish utilization for spawning
	18643			Stein		Whitefish spawning area

RIVERS - BABBAGE

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41	5353	May 20	YK	Fielder	CAGPL	Example of line break
70	10567	Sept.26		Lewis	MVPI	River crossings and characteristics; valley walls; susceptibility to mass movement; ice slump
	10572			Lewis		Channel patterns, meandering and braided channels
	10574-75			Lewis		Bed materials; ice scour
	10577-78			Lewis		Spot discharge measurements; studies; water level; bank full discharge
	10580-82			Lewis		Research; movement of bed load; storm flood; scour; frozen banks and river beds; role of direct ice scour and jaming; ice push
	10584			Lewis		Thermal niching, block slumping
	10588			Lewis		Rib-like features; icings; sediment movement and shaping
	10590			Lewis		Research by CAGSL re: frost bulbs; flood depth, bankfull depth, frozen soil depth
72	I0766			Lewis		Babbage Bight is just east of the mouth of Babbage River; potential harbour area
	10772			Lewis		Reports; water flow, discharge
80	11907	Nov. 4		Minning	CAGPL	Use of flood plain as gravel source
89	13420	Nov.18		Gunn	CAGPL	Noise disturbance experiment, birds, 1972
	13495			Jakimchuk	CAGPL	Caribou calving grounds border
90	13762-64	Nov.19		McCart	CAGPL	Sensitivity of char population
91	13780	Nov.20		McCart		Study of fish population to head waters

RIVERS - BABBAGE

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93	14093	Dec.1	YK	McCart	CAGPL	Categorization for streams from the Babbage; river characteristics; reports
	14144			Gunn	CAGPL	Experiments using Lapland Longspurs nesting, re: disturbance human presence
103	15762-67	Dec.15		Steigenberger	CARC	Fish utilization; winter discharge
111	16911-14	Jan.16		Calef	CARC	As eastern limit, Porcupine herd calving grounds
124	18914-15	Feb.13	IN	Lewis	COPE/ITC	Delta plain - size, inundation by storm surges
136	20614	Mar.26	YK	McCart	CAGPL	Impact on fish of "DEW line route", North Slope

RIVERS - BELL

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XXI	2448-49	Mar.19	YK	Cooper	CAGPL	Slide presentation re scour
52	7052	Aug. 12	WH	Ranfield	CAGPL	Caribou Area
55	7618	Aug. 15		Hughes	CARC	Active layer detachment slides are found along the Bell and its tributaries
82	12191	Nov. 6	YK	McCart	CAGPL	Water in winter; flow under ice and possibility of overwintering fish
103	15770-73	Dec.15		Steigenberger	CARC	Potential re fish overwintering sites

RIVERS - BLACKWATER

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74	11011	Oct.17	YK	Williams	CAGPL	D.P.W. geotechnical crew; line clearing north; Hire North on right-of-way clearing
77	11383-88	Oct.22		Rutter	CARC	East of the Franklins route from Willowlake River to Blackwater River; terrain analysis permafrost
85	12711-30	Nov. 12		Scott Environmental Panel	MVPI CAGPL	Engineering, environmental details for river crossings needed, Blackwater as example

RIVERS - BLOW

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C-II	71	Apr.3	Aklavik	Sittichinli	Citizen	Pipeline route
70	10567	Sept.26	YK	Lewis	MVPI	River crossings; river characteristics re: ice slump, terraces, river channel
	10572			Lewis		Proposed CAGSL Blow River crossing site
	10573-75			Lewis		Channel characteristics; bed armour; ice scour
	10580			Lewis		Research; movement of bed load
72	10771-72	Oct.15		Lewis		Feet of fill at the proposed crossing of the Blow river
79	11691	Nov. 3		Minning	CAGPL	Borrow site eight miles southeast of confluence
80	11887	Nov. 4		Williams	CAGPL	Route relocation under consideration at Rapid Creek near Blow River
81	12115-30	Nov. 5		McCart	CAGPL	Concerns re impact of borrow removal
90	13763	Nov.19		McCart		Sensitivity of char population
94	14280	Dec.2		Jakimchuk	CAGPL	During calving season the herd may be scattered from the Blow River to the Canning River
99	15024	Dec. 9		Jakimchuk		Overwintering caribou
103	15773	Dec.15		Steigenberger	CARC	Potential grayling spawning sites
	15786-88			Steigenberger		Winter survey recommendations re fisheries
106	16243	Dec.18		Lent	CARC	Musk oxen distribution
C-39	3772	Feb.18	In	Alonik	Citizen	Caribou hunting
121	18455	Feb.10		Barry	COPE/ITC	Staging area for geese
122	18581	Feb.11		Barry		Swan nesting site
124	18914-15	Feb.13		Lewis		Delta plain - size, inundation by storm surges
136	20614	Mar.26	YK	McCart	CAGPL	Impact on fish by "DEW line route", North Slope

RIVERS - DONNELLY

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42	5510-12	May 21	YK	Scott	MVPI	Crossing; spawning, rearing area for grayling
52	6893-95	Aug. 12	WH	Banfield	CAGPL	Studies of pipeline/highway interaction
78	11642	Oct.23	YK	Minning	CAGPL	Area of ground water activity along the Franklin Mountains between Donnelly River at Milepost 317 and Willowlake River at Milepost 606
79	11736	Nov. 3		Harlan	CAGPL	Springs between Donnelly and Willowlake Rivers - mineral and conductivity levels
80	11814	Nov. 4		Clark	CAGPL	Gauging of hydrology
85A	12747	Nov. 12		McCart	CAGPL	Fish spawning
93	14086	Dec. 1		McCart		Grayling source; subsistence fishing
95	14448	Dec. 3		Banfield		Proximity of Dempster and pipeline river crossing - cumulative impact

RIVERS - FIRTH

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XXII	2654-57	Mar.20	YK	Hollingshead	CAGPL	River crossing; cutback into bank, backfill
XXIV	2803	Apr.7		Clark	CAGPL	Type of stream for borrow materials
	2812			Cooper	CAGPL	Volume of water flowing gauged
XXV	3063	Apr.8		Cooper		Design flow of sub-channel
	3080-83			Cooper		Design flow
XXXIX	5083-87	May 15		Williams	CAGPL	River crossing - maintain flow for aquatic life
40	5249-51	May 16		Hurd	CAGPL	Scheduling equipment for repairs
47	6190	June 3		McT-Cowan	EPB	Buff breasted sandpiper, confined breeding range
C-13	1201	July 10	F. McP.	W. McDonald	Citizen	People rely on caribou
59	8399	Aug. 21	YK	Mirosh	Foothills	Ebbutt Hills proposed IBP site re: Dr. Geist testimony in Whitehorse; opportunity to study environmental impact in a controlled situation
53	7278-83	Aug. 13	WH	Thompson	CARC	Relation to Arctic National Wildlife Range
55	7631-32	Aug. 15		Morlan	CARC	Engigsticiak site on Firth; archaeological site
	7637-38			Morlan		Yukon portion of the mainline route crosses the Firth; Engigsticiak archaeological site
64	9424	Sept.18	YK	Spafford	Foothills	Difference in valley climate compared to the nearby Malcolm River Valley
70	10570	Sept.26		Lewis	MVPI	Proposed CAGSL crossing site;
	10572			Lewis		Channel patterns near crossing site
	10577			Lewis		Frozen river bed; surface flow
	10583			Lewis		Gravel bars; suspended load; channel braided streams
	10588			Lewis		Icings, sediment covered ice; fish over-wintering areas re: proposed river crossings
	10590			Lewis		Research by CAGSL re: growth of frost bulb; floods depth; bankfull depth; frozen soil depth
72	10755	Oct.15	YK	Lewis	MVPI	Data and -Battelle model testing
	10775			Lewis		Aufeis deposits; water levels
73	10966-68	Oct.16		Harlan	CAGPL	River crossings; CAGPL responses; culverts; Dr. Lewis' testimony; CAGSL research
78	11612	Oct.23		Minning	CAGPL	Interior alternative route; west of the Firth River on the coastal route re: glaciated terrain
79	11687-89	Nov. 3		Minning		Alluvial terrace flood plain deposits - borrow source
	11727			Dabbs	CAGPL	Program to replace surface material on berm initiated at Firth River
	11734			Harlan	CAGPL	Joe Creek, tributary of Firth, river icing
	11737			Harlan		Slide showing icing on Firth
	11738			Harlan		Large population of char in spring between Firth and Malcolm Rivers
	11739			Harlan		Combined drilling and geophysical program planned in area of Firth and Alaska

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80	11814	Nov. 4	YK	Clark	CAGPL	Gauging of hydrology, drainage
	11851			Hemstock	CAGPL	Sensitive area proposed as preserve in Firth River vicinity
	11907			Minning		Flood plain as gravel source
81	11969	Nov. 5		Dabbs		Caribou tracks across reseeded area near Firth
	12099			Williams	CAGPL	Spring on Firth possible water source
	12109-13			McCart	CAGPL	Water quality and composition; fish population
	12115-30			McCart		Concerns re water removal
82	12147	Nov. 6		Dabbs		Disturbance studies on birds carried out by Williams Bros. near Firth River
83	12345	Nov. 7		Dabbs	CAGPL	Success of tundra mat removal experiment at Firth River
	12464			McCart	CAGPL	Gravel mining, impact on fish
	12485-89			Scott McCart	MVPI	Fish populations, gravel mining, fish eggs, sediment
84	12538	Nov. 8		Anthony	CARC	Assessment of frost bulb culvert, Firth
	12555			McCart		Active flood plain area downstream of pipe
	12587			McCart		Water source, Komakuk Beach compressor station
85	12635-60	Nov. 12		Bayly McCart Harlan Williams	COPE/ITC CAGPL CAGPL	Fish populations, headwaters, char production, overwintering, crossing, critical area
	12667-75			Bayly Environmental Panel	CAGPL	Channel migration, gravel mining, fish impact, bed and bank erosion
	12730-37			Williams McCart		Water withdrawal locations, overwintering fish
85A	12743-51			McCart		Water withdrawal, more important than Malcolm for fish
89	13412	Nov.18		Gunn	CAGPL	Bird disturbance studies at camp
90	13590	Nov.19		Dabbs		Trampling by caribou, revegetation plots near river
	13762-64			McCart		Sensitivity of char population
91	13770	Nov.20		McCart		Overwintering char population; not a critical area
	13798			McCart		Critical fish areas
	13835			Anthony McCart		Springs in river, locations
92	13957-62	Nov.21		McCart	CAGPL	Potential for commercial fishing at mouth
	13972-73					Population; impact of egg destruction, over fishing
93	14082	Dec.1		McCart		Spawning on Joe Creek on the Firth River
	14143			Gunn	CAGPL	Disturbance in relation to human presence re: birds
99	15055	Dec. 9		Hemstock	CAGPL	Mining, impact on wilderness values
	15059-60			Scott Jakimchuk	MVPI CAGPL	Mining, personnel, operations
	15070			Hemstock		Selection of area for Arctic shore wilderness park
101	15431-32	Dec.11		Peterson	CARC	Archaeological area; overwintering area; British Mountains and mouth of Firth critical wildlife areas; proposed as avoidance areas, Guideline #4
	15445-47			Peterson		Proposed IBP site, as area to be avoided
	15479-80			Zoltai	CARC	Spring near river for water use
102	15560-68	Dec. 12		Bayly	COPE/ITC	Preferable not to put pipeline through proposed IBP site
	15592-98			Peterson		Proposed IBP site
	15686			Novakowski	CARC	Status of proposed IBP site

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103	15755	Dec.15	YK	Steigenberger	CARC	Avoidance of pipeline crossings at spawning areas
	15762-67			Steigenberger		Fish utilization; winter discharge
	15773			Steigenberger		Potential grayling spawning areas
	15786-88			Steigenberger		Winter survey recommendations
104	15874	Dec.16		Steigenberger		Potential overwintering area requiring study
105	16043	Dec.17		Marshall	CARC	Water requirements met re PAAG 52; spawning, Joe Creek
109	16675	Jan.14		Bliss	EPB	Dr. Dabb's revegetation experiments on a seismic line disturbance near the Firth River
111	16914	Jan.16		Calef	CARC	Studying Porcupine herd calving ground
124	18915	Feb.13	IN	Lewis	COPE/ITC	Delta plain - inundation during storm surges
130	19749	Mar.16	YK	Williams	CAGPL	Crossing fan of river near coast very difficult
135	20544-45	Mar.25		Hemstock	CAGPL	Proposed IBP site won't be avoided
136	20612	Mar.26		Jakimchuk	CAGPL	Pros, cons of North Slope route using DEW line sites as compressor stations - foxes, fish
	20618			McCart	CAGPL	
				Dabbs	CAGPL	Difficulty of revegetating in fan "DEW line route"
151	23070	May5		Irving	CYI	Archaeological site at Engigtsciak

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XV	1730	Mar.11	YK	Dau	CAGPL	Impact on valleys
XVIIII	2088	Mar.14		Williams	CAGPL	Possible relocation; on-going work
XLXA	2241-44	Mar.17		Clark	CAGPL	Possible relocation; slope stability
XX	2309-62	Mar.18		Morgenstern	CAGPL	Slope stabilization; deep-seated failure? toe berm
	2364			Clark		Drilling to establish absence of permafrost
	2390-92			Clark		Crossing, temporary work pad; increased flow velocities
				Hollingshead	CAGPL	slope problems
	2404-05			Clark		PAAG Report re: river crossings, impact in valleys; possible relocation, drilling programs
XXI	2421-26	Mar.19		Hollingshead	CAGPL	Stabilization berm; channel width, burial depth; drilling results; construction pad
XXII	2633-34	Mar.20		Cooper	CAGPL	Icings - flow under normal ice cover - icejam above pipeline crossing
XXIII	2676-79	Mar.21		Templeton	EPB	Borrow material for river crossing, work berm
XXIV	2809-11	Apr.7		Hollingshead		Temporary work berm - sediment
	2812			Cooper		Volume of water flowing gauged
	2832			Williams		Blasting at river crossing - winter
XXVI	3091	Apr.9		Scott	MVPI	River crossing
XXVIII	3528	Apr.11		Morgenstern		Slope stabilization, buttresses
XXXII	4113	Apr.18		Purcell	CAGPL	Power from proposed dam
XXXIII	4367-68	Apr.21		Dau		Major Crossing
XXXV	4627	Apr.23		O'Rourke	CAGPL	Ferry - interruption to highway at freeze up/break up
XXXVIII	4867-70	May14		Dau		Techniques for river crossings
	4898			Lucas	CARC	Crossing, first summer of construction; blasting
40	5254-58	May20		Hurd	CAGPL	Single crossing, repair procedures
46	6112	June2		Adam	EPB	Severe potential frost heave problems in area
C-8	684-85	June25	F.F.	Touchou	Citizen	Proposed hydroelectric development
	728-29			D.Gully	Citizen	Used by native people as means of transport
C-9	801-03	June26		R. Savi	Citizen	River crossing, near Fort Norman
C-10	836-42	June26	W.L.	J. Blondin	Citizen	Great Bear Dam
	855-56			F. Wido	Citizen	Used by native people for travel
	865-68	June27	F.N.	P. Baton	Citizen	Highway of the native people
59	8384-87	Aug.21	YK	Gillespie	Foothills	Foothills river crossings; additional studies; route revisions considered
	8463-67			Fawcett	Foothills	River crossing; Foothills studies; slump block or larger former landslide area; old slope failure; eroding river banks

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62	8819	Sept. 16	YK	Walker	Foothills	Studies prior to final design; consultants
64	9372-73 9434	Sept. 18		Claridge Spafford	Foothills Foothills	Difficulty of crossing due to slope instability Gauging of winter flow and ground water discharge
78	11573-75 11583 11637-38	Oct.23		Roed Roed Minning	CARC CAGPL	Transportation facility; used by Great Bear Lake and Echo Bay Silver Mines; barge and road system A staging area to be located on the Great Bear River; east of the Franklins route Stream flow, discharge, spring flood and break-up
80	11805-07 11826-27 11887	Nov. 4		Clark Clark Williams	CAGPL CAGPL	Proposal of gravel stabilizing berm to prevent failure of slope Slopes monitored - judged to have greatest potential for creep Location of new crossing site discussed
83	12514	Nov. 7		Scott Williams	MVPI CAGPL	Disposal of excess spoil material onto right-of-way on river approaches
85	12695-12708	Nov. 12		Hemstock Williams	CAGPL	Hydro-electric dam, power for compressor stations
85A	12747			McCart	CAGPL	Fish overwintering
90	13738-63	Nov.19		McCart		River crossing berm, impact on fish
91	13775-77 13815	Nov.20		Marshall McCart McCart	CAGPL	Relocation of crossing Suspended sediment levels
93	14071 14078 14083	Dec.1		Ryder McCart McCart	MVPI	Suspected spawning area Blasting, construction scheduling River crossing; suspended sediments
94	14197	Dec.2		Scott	MVPI	Under the ice blasting; CAGPL intentions
96	14616-18	Dec.4		Marshall McCart		Winter blasting; river crossing; fish concerns
100	15288-92	Dec. 10		Hayden	Foothills	Crossing techniques, fish information required before recommendations made
101	15430	Dec.11		Peterson	CARC	Highly sensitive aquatic area; important fishery area; proposed as avoidance area, Guideline #4
102	15604	Dec.12		Peterson		Proposed Willow Lake IBP site comes down to north bank of river
103	15740 15792-94 15809	Dec.15		Stein Millen Stein	CARC CARC CARC	Stream crossing re East of Franklins route Winter crossing consideration Hydro development report
105	15995 16099	Dec.17		Millen Ryder	MVPI	Runs open in October River crossings re guideline
194	30379-80 30429-31	Oct. 6		Hemstock Lipsett	CAGPL MVPI	Narrow corridor at Great Bear crossing will demand special stabilization techniques Distance between oil, gas pipeline crossings

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XXXIX	5035 5048	May 15	YK	Williams Williams	CAGPL	Wharf location for Fort Good Hope Alternative site at confluence with Mackenzie
44	5741	May 23		Bell	NWT IB/MA	Application for permit to conduct helicopter-supported pilot route location survey
C-18	1808-11 1822-26	Aug. 5	FGH	A. Wilson Rowe	Citizen CAGPL	Impact on fish at river crossing Proposed method of crossing
C-19	1855 1864-68	Aug. 6		Rowe J. Louison	Citizen	Construction camp site Drilling proposal by Foothills on South Bank

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C-20	1909-10	Aug. 7	FGH	Blair	Foothills	Foothills to consider route change to avoid Fort Good Hope area and Hare Indian River crossing
	1932-35			Carter	CAGPL	CAGPL to apply for land use permit at mouth of river
	1959			T'Seleie	NWT IB/MA	Use by Fort Good Hope people
	1970-89			A. Tobac	Citizen	Use by Fort Good Hope people
77	11457	Oct. 22	YK	Roed	CARC	Area of fluted moraines
	11479			Roed		Edge of the shield route; headwaters of the Hare Indian River
78	11553-54	Oct. 23		Roed		River crossings
85A	12748	Nov. 12		Scott	MVPI	Jackfish population
87	13065-66	Nov. 14		Drew	Foothills	Alternate route; granular deposits
100	15292	Dec. 10		Hayden	Foothills	More information required about fish populations
101	15429-31	Dec. 11		Peterson	CARC	Important wildlife habitat; concentrated archaeological site; proposed as avoidance area, Guideline #4
103	15735	Dec. 15		Stein	CARC	Avoidance by pipeline route
132	20079	Mar.18		Williams	CAGPL	Winter flow not hazardous for winter construction

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60	8559	Aug. 22	YK	Fawcett	Foothills	Suspension of community supply lateral on a highway bridge
101	15429	Dec. 11		Peterson	CARC	Important wildlife habitat; proposed as avoidance area, Guideline #4

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51	6821	Aug. 11	WH	Hemstock	CAGPL	Peel Plain Reserve, potential and location
62	8876	Sept. 16	YK	Mirosh	Foothills	River crossing underground
	8886-87			Scott	MVPI	Foothills feeder lines cross the Liard River
77	11349-53	Oct. 22		Rutter	CARC	Area 1 of Rutter's analysis re: Mackenzie Valley; physiography and terrain characteristics
78	11637-38	Oct. 23		Minning	CAGPL	River flow, characteristics, discharge, spring break-up and flood
80	11867	Nov. 4		Hemstock	CAGPL	Reasons for avoiding Liard and relocating Simpson route
97	14773	Dec. 5		Hemstock		Old prime route, Fort Simpson, crossed river
C-24	2458-61	Aug. 23	NB	Nahanni	NWT IB/MA	Land use map re: traplines, hunting areas in the Nahanni Butte area
136	20700	Mar.26	YK	Peet	MVPI	Domestic fishing sites

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XXII	2633-34	Mar.20	YK	Cooper	CAGPL	Ice jams - flow under normal ice cover - ice jam above pipeline ^{crossing}
	2643-47			Clark Hollingshead	CAGPL CAGPL	River break-up ¹ & ice study 1974; prediction of scour; major crossing break - dualling
XXIV	2812	Apr.7		Cooper		Volume of water flowing gauged several locations
	2839-41			Hardy	CAGPL	Ice jam scour at crossing, scour holes at Sans Sault and Fort Simpson
XXV	2966-67	Apr.8		Cooper		Scour, upstream of Simpson
	2976			Hollingshead		Dual river crossings - alternative to overhead
	2994			Cooper		Ice cakes, gouging
	2998-99			Cooper		Canol buried crossings
	3049-54			Hardy		Blasting of ice jams
	3064-69			Cooper		Design flow basis - 100 year flow, 25 year observation

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XXVI	3091-94 3239	Apr. 9	YK	Scott Slusarchuk	MVPI CAGPL	River crossing East side - discharge area, artesian water
XXVII	3288	Apr. 10		Williams	CAGPL	Re: research by Northwest Project, Mackenzie Valley Oil Pipeline
	3295-96			Williams		Sans Sault test facility
	3304-05			Williams		Test site selection
	3338			McRoberts	CAGPL	Terrain, slope conditions
	3347-48			Williams		Testing, slope stabilization, restoration
	3349			Williams		Revegetation
XXVIII	3440	Apr. 11		Scott		Presence/absence permafrost in river bed
	3458-59			Clark		Major river crossings - separate contractor
XXVIII	3497-3501			Scott		One-hundred year flood
XXIX	3562-63	Apr. 14		Cooper		Flood frequency curve on river at Norman Wells
XXXII	4071-72 4121	Apr. 18		Reid Reid	CAGPL	Well oxygenized river to meet demands of methanol Effect of warm water testing
XXXIII	4265-71 4278-79	Apr. 21		O'Rourke O'Rourke	CAGPL	Barging system - NTCL route map Barging - difficult to move up-river beyond Arctic Red
	4325-26			Dau	CAGPL	Wharves stockpile sites
	4367-68			Dau		Major crossings
XXXV	4627-30	Apr. 23		O'Rourke		Interruptions to highway at freeze up/break up
XXXVII	4723-31	May 13		Bell	NWT IB/MA	Barge traffic; dredging
XXXVIII	4854	May 14		Dau		Water source for snow making
XXXIX	5048-49 5063 5072-79	May 15		Williams Dau Williams	CAGPL	Alternative campsite at confluence with Hare Indian River Fuel barged to storage tanks Silt load
40	5219 5266-67	May 16		Hurd Fielder	CAGPL CAGPL	Fuel barged during summer Rolligons, ACV
41	5307	May 20		Fielder		Movement of ACV, travel from river to ROW
42	5452	May 21		Hurd		Float-equipped planes
43	5579-80	May 22		Horte	CAGPL	East side, selection of route
44	5765 5821-26 5846-47	May 23		Bell Bell Bayly		Expansion of existing barge system East vs. west side Prime route, east side of river
46	6067 6070-73	June 2		Craik Craik	EPB	Wetland area between Peel and Mackenzie - EPB report #1 EPB Waterfowl and fish surveys
47	6175-76	June 3		McT-Cowan	EPB	Migration and staging route
C-I	19-20	Apr. 2	Aklavik	Elanik	Citizen	Location at Aklavik
C-4	199-200 239-252	May 28	Hay River	Phillip Tetrault	Citizen Citizen	Need bridge at Fort Providence Marine transportation industry; use of waterfront property
59	8462	Aug. 21	YK	Fawcett	Foothills	River crossings, Foothills studies
51	6828	Aug. 11	WH	Hemstock	CAGPL	Major transportation artery; construction problems
55	7597-98	Aug. 15		Hughs	CARC	Description of surrounding terrain; location
C-20	2031	Aug. 7	FGH	G.Oudzi	Citizen	Dredging operations at Sans Sault Rapids
C-23	2317-24	Aug. 14	WH	A.Fekete	Citizen	Impact of gas and oil pipeline crossings
61-A	8758-60	Sept. 15	YK	Marshall	CAGPL	Foothills river crossings; single pipe versus dual pipe; depth of pipe burial; width of river crossing; depth of ice scour; pipeline failures; gas supply
62	8795 8819 8877	Sept. 16		Mirosh Walker Bauer	Foothills Foothills Foothills	Hydraulic studies; crossing of Shallow Bay; pipeline hydraulic studies; Mackenzie River crossing; submission of studies River crossing; reports, studies Feeder lines crossing the Mackenzie
63	9099	Sept. 17		Beer	Foothills	Noise level on the Mackenzie from the compressor station near Thunder River

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64	9308-09	Sept. 18	YK	Spafford	Foothills	Scour calculations of crossings of Mackenzie
	9365			Claridge	Foothills	Condition of slopes along Mackenzie
	9433			Mirosh		Removal of granular material from riverbed or flood plain
	9435			Spafford		Gauging of groundwater flow in winter at beginning of Mackenzie at Great Slave Lake
65	9463	Sept. 11		Spafford		Sounding contours of Naylor's Landing Swimming Point
	9468			Spafford		Unles report on scour in East Channel
	9481			Spafford		Supply line crossing at Fort Providence
	9601			Spafford		Situation of Axe Point in relation to Fort Providence rapids; Mackenzie Highway crossing
67	9966-67	Sept. 23		Mirosh	Foothills	Two crossings to be done in summer
68	10045	Sept. 24		Hushion	Foothills	Construction & maintenance of wharves
72	10748	Oct. 15		Lewis	MVPI	Ground water action; mass movement of ground water, movement from sides of the valley towards the river
73	10957	Oct. 16		Morgenstern	CAGPL	Landslides; vicinity of Mackenzie River mile 205 to 660
74	10975	Oct. 17		Williams	CAGPL	Drill hole data; depth of active layer
77	11351-73	Oct. 22		Rutter	CARC	Transportation system; physiographic and terrain information; characteristics
	11425-27			Rutter		Transportation artery, lower project costs; terrain conditions
	11457			Roed	CARC	Area of fluted moraines
	11476			Roed		Edge of the shield route; terrain advantages
78	11489-609	Oct. 23		Roed		Edge of the shield route; use of Mackenzie River transportation benefits
	11637-65			Minning	CAGPL	Mackenzie River system; joining of rivers into the Mackenzie; river flow discharge, peak flow
80	11818	Nov. 4		Clark	CAGPL	Stability of slopes at crossing near Simpson
	11858			Hemstock	CAGPL	Use in transportation for pipeline; contrast with inadequacy of access for east of the Franklins route
	11874			Minning		Possibility of barging borrow material across river from source on west bank opposite Norman Wells
	11902			Minning		Use of islands and bars in Mackenzie River not to be used for borrow
	11955			Dabbs	CAGPL	Carrier of agronomic species for 200 years
82	12196-98	Nov. 6		McCart	CAGPL	Disposal of methanol into river
83	12357	Nov. 7		Minning	CAGPL	CAGPL's rejection of gravel from flood plains on west bank
85A	12743-63	Nov. 12		Scott McCart	MVPI CAGPL	Water withdrawal, impact on fish, spawning, overwintering
	12761-64			McCart		Water withdrawal effects on fish eggs; water sources in tributaries, Mackenzie as backup
	12776-90			Scott McCart		Silt, effects on fish, controls, causes
86	13045-46	Nov. 13		Williams	CAGPL	Crossing near Fort Simpson, winter
87	13139	Nov. 14		Carter	CAGPL	Possible migration of plant seeds via river from south
89	13410	Nov. 18		Gunn	CAGPL	Migrating waterfowl follow river north
90	13634	Nov. 19		Anthony Dabbs	CARC CAGPL	Helicopter seeding schedule along river
	13647			Hemstock	CAGPL	Barge system as part of corridor concept
91	13815	Nov. 20		McCart		Suspended sediment levels
95	14474-76	Dec. 3		McCart		Disposal of methanol; impact, fish,
	14524			Veale	CYI	The views of the people living along the Mackenzie have been heard
96	14619-31	Dec. 4		Veale Jakimchuk Marshall	CAGPL	Use of the Mackenzie as a major transportation system; wharf sites

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97	14720-34 14773 14795-818	Dec. 5	YK	Jakimchuk Hemstock Templeton Gunn McCart Jakimchuk	CAGPL EPB CAGPL CAGPL CAGPL	Moose habitat, impact of pipeline Old prime route near Fort Simpson crossed Mackenzie Recommendations to enquiry, birds fish, mammals, enforcement
99	15109	Dec. 9		Bouckhout	Foothills	Wharf moved along river from Thunder River mouth
100	15216-22 15292 15343-44	Dec. 10		Hayden Hayden Finney Bouckhout	Foothills Foothills	Future fish studies More information required for crossing recommendations No gravel mining on islands and bars, important for birds
101	15431 15467	Dec. 11		Peterson Zoltai	CARC CARC	National landmarks - Bear Rock, Ramparts, West Bank at Fort Good Hope; Horseshoe Bend important spawning areas, Guideline #4 Foothills line crosses extensive fenlands north and south of river near Ebbutt Hills
103	15740-41 15766-67 15789 15802-840	Dec. 15		Stein Steigenberger Millen Stein Marshall	CARC CARC CARC CAGPL	Stream crossings re East of Franklin route Discharge influence on freshwater species in Beaufort Sea area Importance re fishery resource Beaufort Sea Program, Mackenzie Highway Monitoring Project - monitoring highway impact on Mackenzie and some tributaries; 300 - foot guideline re gravel removal operation distance from active river channel, stockpile siting; spawning utilization; water utilization; access roads from East of Franklins Route
104	15842-70	Dec. 16		Stein Bayly	CARC COPE/ITC	Intensive aquatic resource studies on Mackenzie re methods, migration and migration routes, feed habits and habitats, spawning, overwintering areas; assumptions made re population dynamics; species resiliency, knowledge gaps re habitat, environment impact assessment; further study recommendations
105	15977-96 16002 16096 16099	Dec. 17		Steigenberger Stein Stein Ryder	CARC CARC MVPI	Stocked by part of same fish as in Yukon, comment on the present pipeline proposals Objectives of Fisheries Service program similar to those of the valley Fish in flowing streams River crossings re summertime
111	16921 16937	Jan. 16		Calef Ryder	CARC	Caribou herds east of river, summer aggregation Reindeer herd winters between Mackenzie and Miner rivers
C-25	2534-36	Sept. 8	FS	Deller Fillwood Workman	Citizen Foothills CAGPL	Wharf construction, barge transport
C-26	2663	Sept. 9		B. Menicoche	Citizen	Validity of 1921 Peace Treaty as long as Mackenzie flows south-north
C-27	2765	Sept. 10		Hammond	Citizen	Paddling re: peaceful environment
C-28	2793 2804 2824-25	Sept. 10	Wr	H. Hardisty Williams F. Horesay	Citizen Citizen Citizen	Communtties along river Danger if pipeline is damaged Ice breakup re: damage to pipeline
C-28	2840 2845	Sept. 11		E. Nayally H. Hardisty	Citizen Citizen	Results of overflow cracking pipeline re: oil or gas towards Mackenzie, impact on land and wildlife Camps along river, way of life destroyed by pipeline
C-29	2851-52	Sept. 12	JMR	Norwegian	Citizen	Water unsuitable to drink due to development
C-34	3260	Oct. 15	YK	Deusterhus	Citizen	Landslides re Biological Report Volume 3; erosion
C-38	3674-78	Feb. 15	In	Mirosh Koe	Foothills Citizen	Danger to pipeline from river bed scour by ice, studies conducted by applicants re: ice scour
112	17038 17077-80	Jan. 20		Bliss Bayly Bliss	GPC-D COPE/ITC	Size; influence on climate, environment, life-forms Warm waters in Liverpool Bay from river via coast; ponds in Delta receive sediment from upstream

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114	17295-98	Jan.22	IN	Mainland	GPC-D-I	Taglu gas plant water source, Kuluarpak channel; barge traffic in Kugmallit Bay via Beaufort Sea
	17305			Mainland		Taglu gas field, shipping materials, equipment along river by barge
	17413			Mainland		Taglu gas field, shipping materials, coordination committee, use of river transportation system
	17440			Faulkner	GPC-D-S	Niglintgak gas field will be supplied by barges along river
115	17447-51	Jan.23		Faulkner		Barging materials down-river to Niglintgak gas field
121	18392-95	Feb.10		Grainger	COPE/ITC	River plume extension into Beaufort Sea; light penetration, plant, nutrient levels in plume
	18409-10			Percy	COPE/ITC	Consequences of oil spill interaction with sediment plume
	18425-27			Stein	COPE/ITC	Importance re spawning, overwintering, as a migration route for anadromous, freshwater fish species
	18446			Barry	COPE/ITC	Snow geese migration route, habits
	18469			Sergeant	COPE/ITC	Difficult white whale observations
122	18491	Feb.11		Sergeant		Impact of upstream oil spill on white whales, calves
	18552-53			Stein		Whitefish spawning sites
	18606-08			Grainger	COPE/ITC	Nutrient input - Beaufort Sea
	18615			Sergeant		Native whale hunting
124	18874-75	Feb.13		Shearer	COPE/ITC	Variation in annual run-off, modification of marine environment
	18883-84			Shearer		Sediment deposition in Mackenzie Bay
	18937-38			Milne	COPE/ITC	Variation in river outflow
	18943-45			Milne		Influence of seasonal outflow on offshore oil movement
125	19047-48	Feb.14		Lewis	COPE/ITC	Sediment deposition in Shallow Bay - scour fill in
130	19760	Mar.16	YK	Hollingshead	CAGPL	Design discharge at Point Separation added to Peel River's discharge for design flow for major Delta river crossings
	19774			Williams	CAGPL	Reduction of total tonnage of material shipped by barge
	19789			Hollingshead		Channels divide flow, are not tributaries
131	19851-61	Mar.17		Hollingshead	CAGPL	Ditching at West, Middle, Langley channel crossings
	19890-97			Hollingshead		Ditch information, West, Middle, Langley, Reindeer channel crossings
	19971-72			Hollingshead		Distance between ditches, bottom scour, Delta channel crossings
	19981-82			Williams	CAGPL	Dredging; construction crews, Langley, East, West, Middle channel crossings
	19999-20000			Williams		Traffic blockages during construction; Middle, West, Moose channel crossings
	20006			Cooper	CAGPL	Ice scour on Mackenzie upstream of Delta
132	20018-25	Mar.18		Williams		Difficult crossing of Langley channel on Barry route; twinning pipe at crossings, flooding at crossings
	20061-65			Cooper		Confluence of channels with Shallow Bay perhaps cause of holes in bottom of Bay
	20086-94			Cooper		Contours of Middle Channel crossing, holes on bottom, other channels
	20148-50			Hollingshead		Crossing of Kumak Channel by Niglintgak supply lateral; scheduling; dimensions
133	20184	Mar.23		McCart	CAGPL	Channel crossings of various cross-Delta routes, impact on fish
134	20229-30	Mar.24		McCart		Turbidity; importance of Delta channels for fish migration
	20266-69			Webb	CAGPL	No other large warm water estuary on western Arctic coast for whale use; impact of increased activity
	20279			McCart		Importance of East Channel for fish compared to Shallow Bay

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134	20285-305	Mar.24	YK	McCart	CAGPL	Impact on benthic organisms of siltation from Delta channel crossings; organism distribution in Delta channels; fish migration, Delta channels
135	20458-76	Mar.25		McCart		Possible impact of Delta channel crossings on fish, preventative measures
	20483-88			McCart		Crossings of Delta channels, Barry route compared to cross-Delta
	20501-02			McCart		Kumak channel crossing, Niglitngak supply lateral, impact on fish
	20523			Hemstock	CAGPL	Bank stability, Reindeer, Langley channel crossings
136	20700	Mar.26		Peet	MVPI	Domestic fishing sites
	20707			Peet		Commercial fishing areas
C-47	4609-12	Mar.13	ARR	Berger J. Andre	Citizen	Danger of pipeline under river; gas under, oil over
C-63	7062	June 1	MTL	Boucher	Citizen	Plans which were made by NAWAMP to bring Mackenzie River water to the south
169	26295-97	July 23	YK	Ruttan	NWT IB/MA	Extensive fishing, potential hazards from pipeline or other developments, spawning and fish migrations
C-76	8358	Aug 25	DET	Chief Charlo	Citizen	Tributaries
194	30352	Oct. 6	YK	Hemstock	CAGPL	Historical review - use by commercial barge, boat transportation

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XV	1727	Mar.11	YK	Williams	CAGPL	Dual Pipe Crossing
XXVI	3092-94	Apr.9		Scott	MVPI	Crossing undrilled
XXXIII	4262	Apr. 21		Dau	CAGPL	Burnt Island Crossing
	4368			Dau		Major crossing
XXXVII	4710-12	May 13		Williams		Crossing, about confluence of the Liard River
XXXVIII	4865	May 14		Dau		Crossing techniques
	4961-62			Williams		Location survey crews, camped near source of water
59	8383-84	Aug. 21		Gillespie	Foothills	Foothills route relocation at river crossing; steep slopes
	8391-92			Mirosh	Foothills	Foothills route change
62	8782-84	Sept.16		Walker	Foothills	River crossing design; amount of cover
69	10356-57	Sept.15		Berger		River crossings; depth of buried pipe re: high shut off pressures, frost heave
77	11382-84	Oct. 22		Rutter	CARC	CAGPL change in application re: route location; terrain

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XV	1717	Mar.11	YK	Dau	CAGPL	Route relocation
	1727			Williams	CAGPL	Dual pipe crossing
XX	2364	Mar.18		Clark	CAGPL	Drilling to establish absence of permafrost
XXI	2486	Mar.19		Clark		Slide presentation; break up of ice jam, 1973
XXII	2644-45	Mar.20		Anthony	CARC	Prediction of scour in design of crossing near Point Separation
XXIV-A	2917	Apr.7		Cooper	CAGPL	Design solutions for river crossings
XXV	2966-67 2997-98	Apr.8		Cooper		Scour Bed soundings - no evidence of scour from ice cakes
XXVI	3092	Apr.9		Hollingshead	CAGPL	Drill holes above burial depth
XXVII	3279	Apr.10		Clark		Trenches, volume at river crossing, dual crossing
XXXIII	4367-68	Apr. 21		Dau		Major crossing
XXXVIII	4864-65	May 14		Dau		River crossings, technique A
XXXIX	5067-76	May 15		Williams		Dredge soil disposal
C-I	20	Apr.2	Aklavik	Elanik	Citizen	Extent of the Delta
	44			Hemstock	CAGPL	Mainline route

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131	19894-96	Mar.17	YK	Hollingshead	CAGPL	Cross-Delta route avoids difficult Point Separation crossing; compared to other channel crossings
132	20032-33	Mar.18		Williams Cooper		Difficulty of river crossing
	20042-44			Hollingshead Cooper		Difficulty of crossing; ice scour problem; results of a breakage there

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XV	1727	Mar.11	YK	Williams	CAGPL	Dual pipe crossing
XX	2364	Mar.18		Clark	CAGPL	Drilling to establish absence of permafrost
XXV	2958-59	Apr.8		Clark		Route change - north of Holmes Creek
	2984-90			Cooper	CAGPL	Deep scour holes, melting of ground ice
	3031-34			Hollingshead	CAGPL	Stable banks at crossing, shifting river channel
	3039			Cooper		Occurrence of avulsion
	3055-60			Hollingshead		Dual crossings
XXVI	3092-94	Apr.9		Hollingshead		Drill holes above burial depth, on bank
	3111-25			Cooper		Minimum coverage for ice gouging
XXVII	3278-79			Clark		Trench, volume at river crossings
XXIX	3602	Apr.14		Clark		Location of 4 temperature probes
XXXIII	4367-68	Apr. 21		Dau	CAGPL	Major crossing
XXXVIII	4865-69	May 14		Dau		Crossing technique
XXXIX	5013-21	May 15		Williams		Construction camp at Swimming Point
	5076-81			Williams		Excavation material disposal
60	8523-	Aug. 22		Bouckhout	Foothills	Suggestion of adjustment of Foothills line for environmental reasons
61-A	8723	Sept.15		Walker	Foothills	Main East Channel crossing has a silty and sandy bottom
	8758-60			Berger Marshall Mirosh	CAGPL Foothills	Burial depth of Foothills pipes at river crossings; single pipe versus dual pipe; depth of bed scour; river width
62	8782-83	Sept.16		Walker		Depth of cover; river crossing design
64	9372-74	Sept.18		Claridge	Foothills	Relocation of crossing for environmental reasons; slope instability alternate crossing sites under consideration
	9390-91			Scott	MVPI	Example of importance to inquiry of information regarding route revision e.g. Swimming Point revision
65	9462	Sept.19		Spafford	Foothills	Soundings in vicinity used by Foothills
66	9673	Sept.22		Mirosh	Foothills	Location of camp
74	11013	Oct.17		Williams	CAGPL	Snow manufacturing machine, Gulf, augment snow cover for winter construction
78	11640-41	Oct.23		Minning	CAGPL	Area of significant river crossings, terrain data
86	13010-11	Nov. 13		Williams		Access road, ice bridge, construction
87	13077	Nov. 14		Reeves	Foothills	Sensitive archaeological area
88-A	13352	Nov.17		Gibbs	Foothills	CAGPL request for soundings information
90	13738-63	Nov.19		McCart	CAGPL	River crossing berm, impact on fish
91	13776-77	Nov.20		McCart		Cross delta crossing of Mackenzie has less impact than Swimming Point

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XV	1708	Mar.11	YK	Dau	CAGPL	Route selection, relocation
	1712-14			Dau		Route relocation
XXII	2623-24	Mar.20		Clark	CAGPL	Flow characteristics - freezing throughout depth at portions
XXV	2955-56	Apr.8		Clark		Route change
XXXIV	4490	Apr. 22		Williams	CAGPL	Movement of construction spread camp across river
64	9424	Sept.18		Spafford	Foothills	Difference in climate of valley compared to nearby Fifth River Valley

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70	10575	Sept.20	YK	Lewis	MVPI	Geophysical information; unfrozen depth beneath low water channel
	10587-88			Lewis		River icings; perennial icings; active channel location; winter ground flow beneath the channels of Yukon North Slope rivers
	10591			Lewis		Research, CAGSL re: frost bulb; Battelle report; maximum depth of permafrost
72	10755	Oct.15		Lewis		Data and Battelle model testing
	10771-72			Lewis		Malcolm river crossing; unfrozen depths; sub-riverbed materials
	10775			Lewis		Aufeis deposits; water levels
73	10966-68	Oct.16		Harlan	CAGPL	CAGPL research; river crossings
79	11738	Nov. 3		Harlan		Spring between Firth and Malcolm supports large Arctic char population
81	12099	Nov. 5		Harlan		Springs, sources of water
	12108-13			McCart	CAGPL	Data records re springs, characteristics, fish
	12115-30			McCart		Fish concerns re water use
83	12443	Nov. 7		Scott McCart	MVPI CAGPL	Steigenberger's report, summer floods
	12464			McCart		Gravel mining, impact on fish
	12481			Scott Minning	CAGPL	Gravel mining, volumes required, pit depth
84	12555	Nov. 8		McCart		Active flood plain area downstream of pipeline
	12585			Bayly	COPE/ITC	Komakuk Beach compressor station, water sources
	12593			Bayly		Water source, east side top of delta fan
	12600			Bayly		Water source, spring east side alluvial fan
85A	12743-50	Nov. 12		McCart		Water withdrawal, Malcolm less important than Firth for fish
90	13762-63	Nov.19		McCart		Sensitivity of char population
91	13768-70	Nov.20		McCart		Not critical fish area; char population over-wintering
	13835			Anthony McCart	CARC	Spring locations
93	14071	Dec.1		McCart Ryder	MVPI	Suspected spawning areas
101	15431-32	Dec.11		Peterson	CARC	Important overwintering area; critical wildlife area; proposed avoidance area, Guideline #4
103	15763-64	Dec.15		Steigenberger	CARC	Cited as open-water area; potential fish habitat
104	15874	Dec.16		Steigenberger	CARC	Fish population studies required
	15890			Steigenberger		Potential fish - overwintering areas downstream of crossing
105	16040-43	Dec.17		Steigenberger		Overwintering area re McCart's study of Arctic char
	16080			Steigenberger		Groundwater
106	16217	Dec.18		Calef	CARC	North Slope of Brooks Range re evening movement of herd
122	18552	Feb.11	IN	Stein	COPE/ITC	Fish utilization for spawning
124	18915	Feb.13		Lewis	COPE/ITC	Delta plain - inundation by storm surges
130	19749	Mar.16	YK	Williams	CAGPL	Crossing fan of river near coast very difficult
132	20046	Mar.18		Williams		Reasons for crossing fan of Malcolm
136	20612-13	Mar.26		Jakimchuk McCart	CAGPL CAGPL	Pros, cons of North Slope route using DEW line sites as compressor stations - foxes, fish
	20618			Dabba	CAGPL	Difficulty of revegetating in fan, "DEW line route"

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XXXIV	4438	Apr. 22	YK	Dau	CAGPL	Little Flats
	4496			Veale	CYI	Native fishery
46	6072	June 2		Craik	EPB	Fish survey studies
C-16	1517	July 13	O.C.	J. Tizya	Citizen	Not as many fish after building of ice bridges
55	7618	Aug.15	WH	Hughes	CARC	Active layer detachment slides found along the Old Crow and its tributaries
	7640			Morlan	CARC	Confluence of Old Crow and Porcupine area of archaeological sites
81	12111	Nov. 5	YK	McCart	CAGPL	Data re springs, flow
96	14688	Dec.4		McCart		Blasting; salmon runs; fishing by Old Crow people at the confluence of the Old Crow and Porcupine Rivers
101	15430	Dec.11		Peterson	CARC	Highly sensitive aquatic area; proposed as avoidance area, Guideline #4
103	15769-73	Dec.15		Steigenberger	CARC	Fish population; grayling spawning area, Prime route crossing site
104	15874	Dec.16		Steigenberger		Fisheries studies re groundwater areas required
105	16039	Dec.17		Steigenberger		Crossing sites surveys, only one to have water discharge
153	23470-72	May7		Sharp	CYI	Fishing, providing food for dogs

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xv	1709-11	Mar.11	YK	Dau	CAGPL	Willow River, route relocation
	1724			Dau		Canning River
XVI	1791-93	Mar.12		Dau		Liard River, Mackenzie River at Burnt Island
XX	2359	Mar.18		Morgenstern	CAGPL	Mountain River, slope stability
XXI	2432	Mar.19		Hollingshead	CAGPL	Slide presentation, Big Smith Creek, Martin River
	2445-46			Cooper	CAGPL	Slide presentation Salcha River, Scour problem
	2450-57			Cooper		Slide presentation: Chandler River, Alaska; scour at confluence
	2466-67			Cooper		Slide presentation: Trail River, interior route; sag bends
XXII	2628	Mar.20		Cooper		Canning R., channels cutting through icing deposits
	2633-34			Cooper		Liard River, flow under normal ice cover
XXIII	2740-42	Mar.21		Hardy	CAGPL	Koyaleer, LaBiche rivers, crossings, flooding
	2754-55			Williams	CAGPL	Chinchaga, blasting
XXIV	2812	Apr.7		Cooper		Volume of water flowing gauged - Liard
	2818			Hardy		Fraser, Quesnel, Peace - bridge crossings
XXV	2956-57	Apr.8		Clark	CAGPL	Driftwood - route change due to environmental concerns
	2957-59					Berry Creek and Holmes Creek - route change
	2976-78			Hollingshead		Elk (B.C.) - dual crossing
	2994			Cooper		Peace, Athabasca - ice cakes
	3001-08			Hardy		Kotanelee crossing compared to Mackenzie River
	3011-13			Hollingshead		Labiche - erosion problem on slopes
	3013-14			Hardy		Kotanelee - channel control design system
	3056			Hollingshead		Holmes Creek
XXVI	3123-28	Apr.9		Hollingshead		Fraser River crossings
XXVII	3292	Apr.10		Scott	MVPI	Mountain River
	3295-96			Williams		Mountain River - eroding banks
	3298			Williams		Carcajou River
	3321-23			Williams		Mountain River
	3324-32			Williams	CAGPL	Mountain River
	3347			Williams		Narrow Creek
	3349			Williams		Small Creek
XXVIII	3437	Apr.11		Scott	MVPI	Malcolm River
	3458			Scott		Malcolm River, Firth River
	3460			Clark	CAGPL	Canning River
	3467			Scott		Onan River, Siberia
	3558-59			Scott		Martin River

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XXX	3764	Apr. 15	YK	Purcell	CAGPL	Blackwater River
XXXIII	4368	Apr. 21		Dau	CAGPL	Liard - crossing no longer required
XXXIV	4378-83	Apr. 22		Williams		Fraser River, B.C.
				Genest	CAGPL	
XXXV	4627-30	Apr. 23		O'Rourke	CAGPL	Liard - interruptions to highway at freeze up/break up
XXXVII	4710	May 13		Williams		Liard River
	4731			O'Rourke		Hay River
	4746			Bayly	COPE/ITC	Fraser River crossing
	4793-94			O'Rourke		Liard River
XXXIX	5110	May 15		Dau		Trout R. - use of cut grades on side slopes
41	5340-47	May 20		Fielder	CAGPL	Ob River, U.S.S.R.
42	5424-25	May 21		Fielder		Ob River, Yenesei River, U.S.S.R.
44	5833	May 23		Bayly		Anderson River basin
46	6068	June 2		Craik	EPB	Hume and Ramparts - fish survey, river data
	6071-72			Craik		Hume and Ramparts - fish survey, river data
	6109			Adam	EPB	Ochre - crossings to north - icing activities
47	6178	June 3		McT-Cowan	EPB	Rampart - bird breeding grounds
	6202			McT-Cowan		Porcupine
48	6323	June 4		Craik		Redstone - violation of Fisheries Act
C-I	30	Apr. 2	Aklavik	Paul	Citizen	Fish River
	48			Sittichinli	Citizen	Husky River
	52			Ross	Citizen	Keeley River
C-II	79-80	Apr. 3		Stoor	Citizen	Willow River, land use application
	93-96			F. Joe	Citizen	Rengleng Rover
C-7	639	June 24	F.F.	Naedzo	Citizen	Coppermine River
C-8	682	June 25		Touchou	Citizen	Johnny Hoe River
	687			Denis	Citizen	Keele River, Redstone River
C-9	814-15	June 26		J. Naedzo	Citizen	Johnny Hoe River
C-13	1175	July 10	F. McP.	P. Thompson	Citizen	Snake River
	1212-18			A. Kunnizzi	Citizen	Blackstone, Bonnet Plume, Hart, Road and Snake Rivers
	1265			A. Stewart	Citizen	Husky River
C-15	1406	July 12	O.C.	S. Frost	Citizen	White Stone, Miner and Fishing Rivers
C-16	1503	July 13		J. Kendi	Citizen	Black Fox River
	1516			J. Tizya	Citizen	Minor River
60	8532	Aug. 22	YK	Bouckhout	Foothills	Holmes Creek, suggested route change
	8556-60			Fawcett	Foothills	Saline River; location of Foothills line to Mackenzie Highway; Hay and Buffalo Rivers
52	6895	Aug. 12	WH	Hemstock	CAGPL	Hoiett (?) River
	6993			Banfield	CAGPL	Sag River
	7052			Banfield		Driftwood River
53	7082	Aug. 13		Williams	CAGPL	Canning River
	7088			Williams		Yukon River
	7149			Hemstock	CARC	Anderson River
	7160			Williams		Canning River
	7269			Collins	CARC	Canning River
	7181-83			Joe	CYI	Nisling, White, Kluane, Yukon, Lake Arkell-Kusarva, Takhini Pelly, Klondike, Tadonduk, White
	7193			Sprecker	CYI	Tazlina River
53-A	7287			Collins	CARC	Canning River
54	7422	Aug. 14		Geist	CARC	Yukon, Macmillan, Pelly
	7442			Banfield	CAGPL	Horton River, Anderson River
	7462			Weeden	CARC	Colville River; Naval Petroleum Reserve No. 4
	7467			Weeden		Marsh Creek; Canning River

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54	7470	Aug. 14	WH	Weeden	CARC	Canning River	
	7472			Weeden		Yukon River, Tanana River	
	7479			Weeden		Canning River re: Arctic National Wildlife Range	
	7483			Weeden		Canning River	
	7486			Weeden		Marsh Fork, Old Woman Creek re: Interior route, location of compressor stations; noise	
	7489-90			Weeden		Ribdon River	
	7511-15			Weeden		Fairbanks corridor; Yukon River; Tanana River Sagavanirktok; Atigun, Dietrich, Middle Fork Koyubuk Rivers	
55	7602-04	Aug. 15		Hughes	CARC	Yukon Pelly, Stewart and Klondike Rivers - glacial till and gravel terraces	
	7618			Hughes		Active layer detachment slides on steep slopes between the Peel River and the Peel Plateau; valley walls of the Eagle River above the Dempster crossing; Stony and Vittrekwa Rivers	
	7638-39			Morlan		Rapid Creek - area of archaeological sites	
	7640-42			Morlan		Rat Indian Creek - site of La Pierre House requires careful road work re: archaeological sites	
	7653-54			Banfield		Colville River, Carter Creek Drainage re: polar bear denning sites	
C-18	7656	Aug. 5	FGH	Banfield	Citizen	Koyukuk Rivers breeding area of waterfowl	
	1801			J. Kakfwi		Anderson River - traverse by Fort Good Hope people	
	1814			J. Pierrot		Pierrot Creek - area used by Fort Good Hope people	
C-19	1831	Aug. 6		L. Boucan	Citizen	Lansing Creek - travel by Fort Good Hope people	
	1875			Fr. Labatt		Anderson River - travel by Fort Good Hope people	
C-20	1902	Aug. 7		N. Caesar	Citizen	Sars Sault - effects of blasting on beaver populations	
	1959			J. T'Seleic		NWT IB/MA	Ramparts River, Carcajou River, Ontaratue River - use by people of Fort Good Hope
	2000			T. Pierrot		Citizen	Jackfish Creek - wish to preserve it
	2012-14			G. Rabisca		Citizen	Anderson River - trapping area
C-21	2091	Aug. 9	NW	G. Monuik	Citizen	Chinchaga River	
	2145			R. Laycock		Citizen	Ross River
C-23	2311	Aug. 14		R. McCaymie	Citizen	Yukon River	
61	8623	Sept. 15	YK	Gibbs	Foothills	Horn River; IBP site re: Foothills Yellowknife Pine Point community supply lateral	
62	8822	Sept. 16		Mirosh	Foothills	North Slope rivers; research	
	8872			Walker		Foothills	Deep Creek; rivercrossing
63	9099	Sept. 17		Beer	Foothills	Thunder River - compressor station in vicinity	
64	9365	Sept. 18		Claridge	Foothills	Mountain River	
	9372-74			Claridge		Foothills	Smith Creek, Holmes Creek
65	9464	Sept. 19		Spafford	Foothills	Holmes Creek	
	9491			Claridge		Foothills	Snare River
	9549			Claridge		Foothills	Trout, Tekesa Rivers, (Kakisa ?)
67	9963	Sept. 23		Mirosh	Foothills	Blackwater River	
	9989-91			Mirosh		Foothills	River Between Two Mountains
68	10132	Sept. 24		Dau	CAGPL	Athabaska River	
70	10507	Sept. 26		Owen	MVPI	LaBiche, Kotaneelee Rivers; Pointed Mountain Line	
	10521-24			Owen		Foothills	Kotaneelee River, LaBiche River
	10526			Owen		Foothills	Beaver River
	10577			Lewis		MVPI	Yukon North Slope Rivers re: report on river discharge, Geologic Survey
72	10772	Oct. 15		Lewis		Deep Creek; water flow and discharge; reports	
	10776			Lewis		Alaskan and Yukon North Slope rivers; data reports	
	10781			Adam		EPB	Saline River re: thaw settlement

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75	11035	Oct.20	YK	Weeden	CARC	Colville river re: study on waterfowl, black brandt
76	11148	Oct.21		Weeden Parker	CARC	Sag River area; terrain material
	11165			Parker		Sagavanirktak, Atigun, Koyukak Rivers, Dietrick middle and south forks, Tanana River, Delta River, Low River re: gravel sources
	11185			Parker	CARC	Colville River, water and gravel availability
	11200-01			Weeden	CARC	Yukon River, Tanana River; caribou range
	11272			Parker		Canning River, activity in the area; buffer zone re: wilderness areas
	11288			Parker		Salcha River; planning a comidor
77	11349	Oct.22		Rutter	CARC	Kakisa River, Area 1 re: Rutter's analysis and grouping of the physiographic features of the Mackenzie Delta
	11425			Rutter		Bear River re: east of the Franklins route
	11465			Rutter		Area of gas-bearing basin, Anderson River on the coast
	11468-87			Roed	CARC	Slave River near Fort Smith, major river crossing re: edge of the shield route
	11471			Roed		Anderson River; beginning point of edge of the shield route
78	11539	Oct.23		Roed		West River; ice content soils
	11553-54			Roed		Iroquois, Minor, Wolverine and Horn rivers; re: river crossings
79	11692	Nov. 3		Minning	CAGPL	Bedrock and bedrock talus at Oscar Creek site
	11698			Minning		Moose habitat and commercial timber at borrow site at Oscar Creek
	11704-05			Minning		Windrows of gravel at Sagavanirtok River, Alaska
	11706			McCart	CAGPL	Kavik River, Alaska - Studies of impact of previous borrow operation
	11723			Dabbs	CAGPL	Trail River in Peel Plateau - revegetation studies
	11725			Dabbs		Caribou River
	11733-35			Harlan	CAGPL	Canyon Creek - river icing; Joe Creek, Satarochette River (Alaska)
	11736			Harlan		Springs between Donnelly and Willowlake Rivers
	11737			Harlan		Canning River - slide of springs typical in British Mountains
	11738			Harlan		Craig Creek
80	11814-15	Nov. 4		Clark	CAGPL	Gauging of hydrology, drainage of Vermilion Creek, Nota Creek, Stony Creek, Cabins Creek, unnamed creek north of Fort Good Hope, Prohibition Creek, Hodgson Creek and Smith Creek
	11842			Clark		Kavik River, Alaska - impact of borrow operation inspected by CAGPL
	11887			Williams	CAGPL	Route relocation under consideration at Rapid Creek, because of slope instability
	11893			McCart Williams	CAGPL	Rapid Creek - frozen during course of winter, occupied by grayling; recommendation of buffer zone between work area and river channel
	11907			Minning	CAGPL	Use of flood plains as gravel source;
81	12043	Nov. 5		Minning		Hans Creek
	12080			Minning		Little Bear River gravel deposit
	12094			Minning		Sagavanirtok River - 46 Borrow Activities
	12107			McCart		Craig Creek - data records
	12112-13			McCart		Craig Creek, Spring River - data records
	12119-20			McCart		Sagavanirtok River - arctic char
	12127-28			McCart		Keel River
	12130-31			McCart		Deitrich River - poor berms at borrow site; Sagavanirtok River - turbidity in stream - impact

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82	12203	Nov. 6	YK	Minning	CAGPL	Shaefer Creek, Driftwood River, Berry Creek - near borrow sites
	12327-29			Dabbs	CAGPL	Crossing of Pointed Mountain pipeline at Kotaneelee River
84	12586	Nov. 8		McCart	CAGPL	Fish Creek, water source, Komakuk Beach compressor station
	12591			Bayly McCart	COPE/ITC	Volumes of water, Fish Creek
85	12629-30	Nov. 12		Bayly Williams	CAGPL	Water withdrawal, Craig Creek, Fish Creek
	12655			Bayly		Drainage surveys from Fish Creek to Cache Creek, North Slope
	12669			McCart		Gravel mining, Sagavanirtok River
85A	12741-42			McCart		Water withdrawal from Vermilion and Oscar Creeks
	12743-47			McCart		Water withdrawal, Fish Creek, Vermilion Creek, Oscar Creek, fish populations
	12761			McCart		Water for domestic use taken from Vermilion Creek, for snow roads from Mackenzie
	12765-70			Berger McCart		Alaska North Slope, water shortage, other sources Svishak, Sagavanirtok, Kuparak, Echooka
	12782			Berger		Fraser River, salmon population
	12784			Berger		Adams River, B.C., Salmon population
86	12804	Nov. 13		Scott	MVPI	Black Creek, crossing, impact statement
	12807			Williams		Oscar Creek, borrow site P291
	12832			Claridge	Foothills	Ochre and Whitesand rivers, drainage study area
88-A	13388	Nov.17		McCart	CAGPL	Interruption of sub-surface drainage, Canyon Creek, Prohibition Creek, Ochre River
89	13424	Nov.18		Gunn	CAGPL	Canning River, sensitive area for snow geese, gyrfalcons, peregrine falcons, other raptors
	13488			Jakimchuk	CAGPL	Year - round construction, Canning River valley, effects on caribou
	13498			Jakimchuk		Jago River, Alaska, noise tests, calving grounds
90	13761	Nov.19		McCart		Craig Creek, Fish Creek, Sensitivity of char populations
	13762-63			McCart		Crow River, sensitivity of char population
	13763			McCart		Big Fish River, sensitivity of char population
91	13804-06	Nov.20		McCart		Rapid Creek, gravel mining; Vermilion Creek, problems
	13835			Anthony McCart	CARC	Spring on Fish Creek
	13919			McCart		Colville River, Arctic Cisco spawning
	13938			McCart		DOE studied fish in Oscar Creek, Big Fish River, Fish Creek
92	13982-83	Nov.21		McCart		Kotaneelee River, Pointed Mountain
	13985			McCart		Kotaneelee River; Rapid Creek
	13990-94			McCart		Rengleng River, culverts; increased siltation due to culvert failure
	14005			McCart		Sagavanirtok, Alyeska borrow sources;
	14030			McCart		Kotaneelee river; monitoring
	14042-44			McCart		Loon River
93	14081-82	Dec. 1		McCart	CAGPL	Over-wintering of char in Invislak River, and Sagavanirtok River; spawning in Canning River
	14092-93			McCart Hemstock	CAGPL	Vermilion Creek - fish studies; Sagavanirtok River characteristics
	14162-63			Gunn	CAGPL	Canning River, raptors nesting area
	14172			Gunn		Anderson River, staging area for snow geese
	14196			Gunn		Canning River; sensitive environmental areas

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94	14208	Dec.2		Jakimchuk	CAGPL	Canning River; Ramparts and Ontaratue Rivers
	14280			Jakimchuk		During the calving season the herd may be scattered from the Blow River to the Canning River
	14338			Jakimchuk		Canning River - Interior Route
	14342-43			Bayly	COPE/ITC	
				McCart	CAGPL	Canning River, important spawning and over-wintering area
95	14532-34	Dec.3		Scott	MVPI	Ross River - Miller Report
				Veale	CYI	
96	14562	Dec.4		Jakimchuk		Bonnet Plume, Blackstone, Wind River, Snake River evidence of caribou, winter range
	14637			Jakimchuk		Whitestone River, Experiments re: snow depths
97	14802-03	Dec.5		Templeton	EPB	North Slope rivers, access restriction periods in willow thickets
	14841-42			Gunn		Egg River, Banks Island, Snow geese nesting; Anderson River, stopping point on migration route, coast west of river
98	14912	Dec.8		Scott		Goose grazing studies, McConnell River
99	15109	Dec. 9		Bouckhout	Foothills	Payne Creek, wharf relocation to minimize mammal impact
	15122-23			Hayden	Foothills	Domestic fishery sites, Horn, Kakisa, Hay Rivers
	15126			Finney	Foothills	Holme Creek, recommended realignment due to raptor nest
100	15191-94	Dec. 10		Bouckhout		Kotanelee River, river crossing, Pointed Mountain pipeline, mitigative measures, slow decision-making
	15216-22			Hayden	Foothills	Locating fish overwintering areas; winter siltation experiments, Hodgson Creek; tagging work, Great Slave Lake tributaries
	15260-61			Hayden		Use of special fish culvert, Rengleng River crossing, Dempster Highway
	15292			Hayden		Hodgson Creek has been studied for a crossing
	15325-32			Bouckhout		Relocation, Holmes Creek crossing, reasons; fish, birds, in area
				Finney		
				Hayden		
				Whitney	Foothills	
	15346			Bouckhout		Payne Creek, wharf, stockpile site moved, fox dens in area
				Scott	MVPI	
	15350-51			Bouckhout		Relocation, borrow site, active flood plain
	15352			Whitney		Redknife River area, possible drainage pattern problems, Yellowknife Pine Point lateral
101	15429-32	Dec.11		Peterson	CARC	Trail, Harris, Jean Marie, Trout rivers highly sensitive aquatic areas; Big Fish, Trout, Jean Marie, Swan Creek, Stewart rivers important fishery areas
						Fish Creek, Ochre River, open water in winter, proposed as avoidance areas, Guideline #4
	15444-46			Peterson		Proposed IBP sites, Devil Creek, Horn River
	15467			Zoltai	CARC	Trail River, CAGPL line crosses unfrozen fenlands, discontinuously frozen peatlands southeast of river
102	15563	Dec.12		Peterson		Driftwood River, eastern boundary of proposed Old Crow Flats IBP site
	15634-39			Novakowski	CARC	Peregrin Falcon breeding, Yukon, Horton, Thelon River areas; whooping crane nesting, Sass, Klewi, Nyarling River areas
103	15724-25	Dec.15		Stein	CARC	Ochre River, Hodgson Creek re fish overwintering areas already identified
	15735-36			Stein		Big Fish, Rat, Trout, Jean Marie Creek, Swan Lake Creek, Three Day Lake - Stewart Creek re biological fragility, potential fisheries; Rabbitkin, Liard Martin, Ochre, Oscar Creek re sensitivity to winter pipeline construction

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103	15755-56	Dec. 15	YK	Steigenberger	CARC	Fishing Branch River re chum salmon populations; Labiche River re suspended sediment observed during extraction
	15763-67			Steigenberger		Fish Creek, Joe Creek, Spring River, Craig Creek, Deep Creek, Phillips Bay, Shoalwater Bay re documented open water and aufeis areas
	15768-73			Steigenberger	CARC	Potato Creek, Surprise Creek, Schaeffer Creek, Driftwood River, Rat Indian Creek, Berry Creek, Waters River re devoid of life; Miner River, Little Bell River, Salmon Fork River, Bluefish River, Driftwood River re potential overwintering sites; Selawick River, Kobuk River re post spawning inconnu; Eagle River re Bell River habitats potential; Trail River, Deep Creek, Walking River, Rapid Creek re probable grayling spawning areas on Prime route close to crossing sites; Potato Creek, Surprise Creek, Driftwood River, Beery Creek re probable grayling and other species spawning areas on Interior route close to crossing sites
	15786-88			Steigenberger		Spring River, Craig Creek, Walking River - winter survey recommendations re fisheries
	15792-93			Millen	CARC	Saline River re sub-gravel flows, pipeline impact on flow
	15808			Stein	CARC	Smith Creek re Mackenzie Highway Monitoring Project
	15810-13			Stein Millen		Ochre River, Harship Crossing, Martin River - winter flow variations at crossings
	15815			Marshall	CAGPL	Question re water utilization as recommended by Dr. McCart
	15720			Stein		Big Fish River re fish population stability threat
	15824-25			Stein Marshall		Swan Lake Creek, Three Day Lake, Stewart Creek, Rabbitskin, Liard, Martin Rivers re sensitive systems
104	15866	Dec. 16		Stein		Big Fish River, Canning River re manmade, natural impact on Arctic char, recovery capacity
	15874-75			Steigenberger	CARC	Fish Creek, Spring River, Crow River re fisheries population studies; Walking River re crossing site
	15890			Steigenberger		Fish Creek re protection of potential overwintering area
	15897-99			Stein	CARC	Rat River, Cache Creek, Big Fish River re Arctic char population utilization of Shallow Bay migratory route
	15901-02			Stein		Rabbitskin River - spawning stream; Jean Marie, Mountain Rivers - potential; Cache Creek re Arctic char catch fishery and domestic
	15907-09			Steigenberger Bayly	COPE/ITC	Shallow Bay studies re utilization in proposed pipeline routes assessment
	15925-37			Walker Millen	CARC CARC	Rengleng, Rock, Kotaneelee, LaBiche, Martin Rivers re crossing failures
105	16024-26	Dec. 17		Marshall Stein	CAGPL	Miner Creek re sedimentation study; Harris Creek re sedimentation study
	16037			Steigenberger		Fish Creek - re water discharge study
	16045-46			Marshall		Fishing Branch re spawning grounds; Babbage re water removal
	16052			Marshall		Hodgson Creek re effect of pipeline on spawning
	16071			Stein		Francis Creek re borrow source
	16080-81			Steigenberger		Fish Creek and Craig Creek re groundwater
	16139			Lent	CARC	Kaparuk River, Sagavanirtuk River re caribou wintering grounds
	16142			Lent		Canning River and Katakturak River re calving concentrations of caribou
106	16168	Dec. 18		Lent	CARC	Sagavanirtok River re construction of gravel causeway at Prudhoe Bay
	16179			Lent		Delta River re Steese 40-mile herd settlement
	16185			Lent		Colville River re petroleum reserve
	16198			Calef	CARC	Churchill River re caribou ranges
	16204-05			Calef		Canning River re interior route crossed by Porcupine caribou

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106	16207	Dec.18	YK	Calef	CARC	Canning River Valley re hunting access
	16218			Calef		Jago River, Alaska re post calving aggregations of caribou
	16237			Calef		Chandalar River re caribou hunted from snowmobiles
	16254			Lent	CARC	Canning River re wilderness potential
	16270			Calef		Phelon River re studies of Caribou population; game sanctuary
107	16290	Jan.12		McT-Cowan	EPB	Canning River - Dall Sheep area
	16295			McT-Cowan		Canning River intersects with the ranges of about six grizzlies
108	16539	Jan.13		McT-Cowan		Wetlands area of the Ramparts River, disturbance to migrating geese; impact of pipeline looping - continuous
	16566			McT-Cowan		Ramparts River - wetlands areas
110	16904-05	Jan.15		Carter Lent	CAGPL	Canning River, interior route; grizzly bear area
111	16914-29	Jan.16		Calef	CARC	Kongakut, Canning, Tutaktaruk, Porcupine herd calving ground; Rogue, Willow, caribou wintering; Canning, caribou use of area
	16937			Ryder	MVPI	Reindeer herd winters between Mackenzie and Miner Rivers
	16945			Lent	CARC	Reindeer wintering range west of Miner
	16952			Lent		Increased moose hunting, Colville River, Alaska
C-24	2409-10	Aug. 23	TL	Nahanni	NWT IB/MA	Trout River, Ehtam, Arrowhead River, Muskeg River, Liard River, Petitot River
	2438		NB	H. Deneron	Citizen	Flat River
	2447-48			H. Deneron		Blue Fish Creek re: camp established by Geologic Survey; Nahanni River
	2458-61			Nahanni		Bluebell Creek, South Nahanni River; Prairie Creek, Beaver River, Granger River, Meulleur River
C-28	2799	Sept. 10	Wr	G. Hardisty	Citizen	Willow River re: trapper's lack of education to work on pipeline
	2824			P. Nahanni	Citizen	Keel, Redstone, North Nahanni
	2839	Sept. 11		E. Nayally	Citizen	Redstone River re: hunting caribou and moose
C-31	3020	Oct. 7	FR	Menez	Citizen	Slave River - sawmill openings for gold mines, construction in Yellowknife
C-32	3065-66	Oct.8		McConnell	Citizen	Buffalo River re recreation area, overcrowding
	3072			Berger		Slave River re Sawmill; Little Buffalo River re camps
	3073			Boggins	Citizen	Buffalo River re living off the land
	3081			Balsille	Citizen	Buffalo River re native recreation area, overcrowded by Pine Point employees
C-33	3191-92	Oct.9	FS	Church	Citizen	Slave River re transportation potential
C-34	3260	Oct.15	YK	Duesterhus	Citizen	Peel River re storm in "Hydrologic Aspects of Northern Pipeline Development, 1973"
C-38	3634	Feb. 12	In.	Hill	Citizen	Leanna River - pipeline construction over permafrost
112	17046-47	Jan.20		Bliss	GPC-D	Holmes Creek, vegetation of area
	17085			Bliss		Trees along Holmes Creek
121	18446	Feb.10		Barry	COPE/ITC	Anderson River, Delta-snow geese nesting, moulting grounds
	18455			Barry		Anderson - snow geese reproduction
	18460			Barry		Anderson - impact of equipment, aircraft noise on flying geese
	18468			Sergeant	COPE/ITC	Description of white whale in Churchill River
	18474			Sergeant		Churchill River - former fishery, white whale study site; Saguenay River - white whale population, herding behaviour
	18458-59			Barry		Moose Channel - Prudhoe Bay route re geese staging areas; Swan Channel - Taglu oil well impact study re bird nesting habits
	18479			Sergeant		Anderson, Nelson, Saskatchewan Rivers - white whale utilization
	18485-85-A			Sergeant		Reindeer Channel - white whale penetration of channel re position of proposed river crossing

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122	18490	Feb.11	YK	Sergeant	COPE/ITC	White whale utilization of summer distribution in Reindeer Channel
	18495-96			Sergeant		Anderson River - potential as a whale calving site
	18590-92			Barry	COPE/ITC	Anderson River - extent of storm surges
	18644			Stein	COPE/ITC	Moose Channel - grayling spawning sites
	18672-74			Sergeant	COPE/ITC	Churchill, Seal Rivers - white whale disturbance tolerance
	18696			Stein		Thunder River - impact of cross-Delta route construction on fish
	18698			Stein		Middle Channel - impact of stream blockage, siltation on fish migration
	18717-19			Stirling Barry	COPE/ITC	Canning River - historical - number of female polar bears killed during annual hunt; Swan, Harry Channels, Dennis Lagoon - expansion of Kendall Island Bird Sanctuary boundaries
126	19247-54	Feb.16		Snow	COPE/ITC	Harris, Rengleng Rivers - effects of suspended sediment on fish food organisms, Great Bear River - sensitive to sedimentation from pipeline construction
	19253-54			Snow		Caribou Bar Creek - variation in annual discharge
	19273			Logan	COPE/ITC	St. Clair River - study on ice deflecting barrier which is permeable to oil
133	20184	Mar.23	YK	McCart	CAGPL	Barry route crossing of Moose channel near Big Fish River mouth, a major char run; might also interfere with Cache Creek drainage char movement
134	20263-71	Mar.24		Webb	CAGPL	Impact on whales of increased industrialization at mouth of Churchill River; Anderson River estuary not large enough for calving; use of Banks Island rivers by whales; mouth of St. Lawrence
135	20486-89	Mar.25		McCart		Barry route near Big Fish River outlet; cross-Delta route further from Holman's Creek than circum-Delta
136	20706	Mar.26		Peet	MVPI	Commercial fishery, Holmes Creek
	20721-23			Peet		Holmes Creek fishery
	20762			Peet		Holmes Creek fishery, study
138	20955-56	Apr.6		Norton	MVPI	Tonsina River crossing
139	21271	Apr.7		Nicol	COPE/ITC	Salmon River oil spill
147	22464-465	Apr.28		Young	NWT IB/MA	Churchill River, Manitoba, hydro electric project
148	22636-37	Apr.29		Rushforth	NWT IB/MA	Johnny Hoe River, fishing
149	22819-21	May3		Simpson	NWT IB/MA	Problems on the Nile River created by the Aswan dam
153	23408	May7		Sharp	CYI	Ross River
	23427			Sharp		Pelly River
C-54	5632-40	May 17	EDM	Swift	Citizen	House River, Athabasca River, oil spills
C-59	6413-15	May 26	TOR	N. Zlotkin	Citizen	English River - Winnipeg River systems, Wabigoon River, mercury pollution
C-63	6969-70	June 1	MTL	Morrisette	Citizen	Equating development along the St. Lawrence with the Mackenzie
	7058			Boucher	Citizen	Nuclear power plants to be constructed along the St. Lawrence
C-68	7910-11	July 16	FP	Horte	CAGPL	Horn, storing of barges
172	26834	Aug. 18	YK	Dittrich	COPE/ITC	Sylvia Grinnell River, polluted by garbage dumps uncontrolled fishing, depletion of Arctic char
193	30100-01	Oct.5		Hernandez	EPB	Bear River - Big Smith Creek - utilization of loop expansion to deal with differential heave
196	30882	Oct. 12		Skinnarland	CARC	James Bay Project initially announced from Nottaway, Broadback, Rupert Rivers, second went to La Grande River
197	31117-18	Oct. 13		Norton	MVPI	Impact of water taken from Sagavanirtok River, effect on fish and fish eggs

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XV	1727	Mar.11	YK	Williams	CAGPL	Dual Pipe Crossing
XX	2364	Mar.18		Clark	CAGPL	Drilling to establish absence of permafrost
XXI	2439-40	Mar.19		Hollingshead	CAGPL	Slide presentation; width of crossing
XXII	2633-34	Mar.20		Cooper	CAGPL	Icings - flow under normal ice cover; ice jamming
XXV	2966-67	Apr.8		Cooper		Soil bottom susceptible to scour
	2976			Hollingshead		Dual river crossing
XXXIII	4265			O'Rourke	CAGPL	Some use of river barging by applicant
	4367-68	Apr. 21		Dau	CAGPL	Major crossing
XXXVII	4731	May 13		O'Rourke		Possible dredging
XXXVIII	4869-70	May 14		Lucas	CARC	River crossing technique; silt load
46	6067-69			Craik	CAGPL	Wetland areas between Peel and Mackenzie: EPB report #1
C-13	1215	July 10	F. McP.	A. Kunnizzi	Citizen	Lower canyon
78	11638	Oct.23		Minning	CAGPL	Origin, drainage area, peak flow
82	12189	Nov. 6	YK	Harlan	CAGPL	Drainage area of Peel has less significant ground water activity
85A	12743-46	Nov. 12		McCart	CAGPL	Peel as alternative water source to Rat River, studies, water withdrawal sites, char impact
90	13674	Nov.19		Bayly Dabbs	COPE/ITC CAGPL	Tree succession after right-of-way clearing
	13681-89			Dabbs Hemstock	CAGPL	Timber from area useful for construction
91	13815	Nov.20		McCart		Suspended sediment levels
	13901			Bell	NWTIB/MA	Domestic fisheries
93	14071	Dec.1		Ryder McCart	MVPI CAGPL	Suspected spawning area
	14085-86			McCart		Spawning of cisco
96	14562-63	Dec.4		Jakimchuk	CAGPL	Evidence of caribou south of the Peel and in the tributaries
	14581			Veale	CYI	Wintering of caribou on large burn areas, such as the one near the Peel River
	14634			Jakimchuk		Spread - C Peel River Area
98	14885	Dec.8		Scott	MVPI	Oil spill from storage bladder
101	15430	Dec.11		Peterson	CARC	Important fishery area; proposed avoidance area, Guideline #4
102	15671	Dec.12		Novakowski	CARC	Cutting trees in area, marten habitat
103	15819-20	Dec.15		Stein	CARC	Cisco spawning site
104	15901	Dec.16		Stein		Suspected spawning site in upstream tributaries of Peel River
111	16924	Jan.16		Calef	CARC	Wintering caribou, headwaters of Peel
C-38	3675	Feb. 15	In.	Koe	Citizen	Ice scour of river bed; Peel River - as a spawning migration route
112	17086-87	Jan.20		Bliss	GPC-D	Local timber as source of pilings
121	18426	Feb.10		Stein	COPE/ITC	Spawning migrations of anadromous fish species
122	18552-52	Feb.11		Stein		Fish utilization for spawning
	18556			Stein		Fish utilization as a migration route
130	19760	Mar.16	YK	Hollingshead	CAGPL	Design discharge of river added to Mackenzie discharge for design flow of major Delta crossings
132	20032	Mar.18		Williams	CAGPL	Difficulty of river crossing
	20043-44			Hollingshead	CAGPL	Crossing not difficult
136	20700-05	Mar.26		Peet	MVPI	Domestic fish sites
149	22750-55	May3		Ritter	NWT IB/MA	Place name study done among Kutchin people of the region
	22770-76			Ritter		History of the Kutchin people of the Peel River area; establishment of Peel River post; Klondike Gold Rush; rise of fur prices, World War II

RIVERS - PORCUPINE

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46	6066-68	June 2	YK	Craik	EPB	Proposed route alignment
	6087			Craik		Cooperative research: EPB and CWS 1972
C-14	1293	July 11	O.C.	C. Charlie	Citizen	Popular hunting areas along river
	1297			C. Charlie	Citizen	Winter road through Klo-Kut
C-16	1506-07	July 12		R. Bruce	Citizen	Oil exploration
52	6992	Aug. 12	WH	Banfield	CAGPL	Drainage area
53	7278-83	Aug. 13		Thompson	CARC	Boundary of Arctic National Wildlife Range proposal
55	7602	Aug. 15		Hughes	CARC	Thick glacial lake deposits, especially in Bluefish Basin and Crow flats
	7618			Hughes		Active layer detachment slides are found along the Porcupine and its tributaries
	7640			Morlan	CARC	Confluence Porcupine and Old Crow area of archaeological sites
76	11275	Oct. 21	YK	Berger		Arctic National Wildlife Range; proposals to establish a Canadian Arctic Wildlife Range contiguous to the American one
77	11481	Oct. 22		Roed	CARC	Fluted topography pronounced in the arcuate basin occupied by Porcupine, Whitefish, Johnny Hoe Rivers
82	12190-91	Nov. 6		McCart	CAGPL	Large flow; no concerns re water removal
	12196-98			McCart		Disposal of test fluid in Porcupine
87	13094	Nov. 14		Berger		Bulldozing of Klokut archaeological site near river
96	14688	Dec. 4		McCart		Old Crow people fish at the confluence of the Porcupine and Crow Rivers; blasting
102	15563	Dec. 12		Peterson	CARC	Southern boundary of proposed Old Crow Flats IBP site
	15634			Novakowski	CARC	Peregrine falcon breeding
103	15749-53	Dec. 15		Walker	CARC	Fish species re rehabilitation, commercial and domestic catch
	15755-56			Steigenberger	CARC	Fishing Branch River chum salmon populations
	15768-73			Steigenberger		Fish population, overwintering site restrictions
104	15905-12			Steigenberger		Impact of Porcupine Interior route on fisheries, environment
	15944-52			Walker		
				Steigenberger		Historical domestic fish catch on system, present significance
105	16036	Dec. 17		Steigenberger		Overwintering habitat for fish
106	16223-25			Calef	CARC	Caribou wintering areas; Canadian Arctic Wildlife Range
110	16848-50	Jan. 15		Calef		As caribou approach the Porcupine River they are more prone to disturbance, greater impact of harassment on the herd
111	16925	Jan. 16		Berger		Caribou wintering north, south of river
	16956			Calef	CARC	
				Calef		Alternative interior route south of Porcupine River
148	22649	Apr. 29		Rushforth	NWT IB/MA	Beaver hunting by Great Bear Lake people
151	23054	May 5		Irving	CYI	Prehistoric Kutchin people, annual cycle oriented to places where caribou would cross
153		May 7		Sharp	CYI	Fishing, peak year for salmon; food for dogs

RIVERS - RAT

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C-11	1010-11	July 8	F. McP.	J. Kay	Citizen	Camp to be located at Destruction City
C-13	1204	July 10		W. McDonald	Citizen	Mouth of the river, compressor station site
55	7640	Aug. 15	WH	Morlan	CARC	Unnamed site on Rat River, seven miles west of crest of Richardson Mts. requires careful construction techniques
79	11733	Nov. 3	YK	Harlan	CAGPL	Slide showing ground icing at tributary river bank
82	12189	Nov. 6		Harlan		Drainage area has insignificant ground water activity
	12203			Minning	CAGPL	Flood plain deposits
83	12423-28	Nov. 7		Scott	MVPI	Rat River borrow site, environmental sensitivities, I.B.P. reserve, fishing site, archaeological site, canoeing
				Environmental Panel	CAGPL	

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85A	12743-46	Nov. 12	YK	McCart	CAGPL	Water withdrawal below char overwintering areas
91	13798	Nov. 20		McCart		Critical fish areas, overwintering, spawning
101	15430	Dec. 11		Peterson	CARC	Important fishery area; proposed as avoidance area, Guideline #4
	15445-47			Peterson		Proposed IBP site, as area zoned to allow some disturbance
102	15598-99			Peterson		Proposed IBP site intersected by pipeline
103	15735	Dec. 15		Stein	CARC	Avoidance by pipeline route
	15771-73			Steigenberger	CARC	Potential overwintering areas, overflow water
133	20134	Mar. 23		Rowe	CAGPL	Cross-Delta route avoids Rat River - MacDougall Pass IBP site
135	20524	Mar. 25		Hemstock	CAGPL	Avoiding Rat River IBP site

RIVERS - RIVER BETWEEN TWO MOUNTAINS

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60	8557	Aug. 22	YK	Fawcett	Foothills	Debate with DPW over location of Foothills line in relation to the river
67	9989-91	Sept. 23		Mirosh	Foothills	River Between Two Mountains
77	11357-73	Oct. 22		Rutter	CARC	Pipeline route; crest of the Franklins up the valley of the River Between Two Mountains; terrain characteristics re: drumlinoid ridges and flutings; surrounding terrain; areas of permafrost; drainage; ground ice; organic material
78	11588-93	Oct. 23		Roed	CARC	River crossings; steep valley walls; east of the Franklins route
83	12363	Nov. 7		Scott Minning	MVPI CAGPL	Sub-grade materials used on highway from Fort Simpson to River Between Two Mountains
85A	12734-35	Nov. 12		McCart	CAGPL	Groundwater sources near the river, water withdrawal
101	15466	Dec. 11		Zoltai	CARC	CAGPL alignment deviates from Foothills South of river crossing
103	15735	Dec. 15		Stein	CARC	Avoidance by pipeline route
	15792			Millen	CARC	Potential sub-gravel flows
105	16028	Dec. 17		Marshall	CAGPL	Re bridge crossing
C-28	2786-87	Sept. 10	Wr	H. Hardisty	Citizen	Mackenzie Highway re: ending
	2794			H. Hardisty		Compressor station re: effect of noise
	2799-800			G. Hardisty	Citizen	Trappers re: lack of education to work on pipeline
	2805			Williams	Citizen	Not in favour of pumping station
	2822			P. Nahanni	Citizen	Position on map re: trappers from Wrigley
	2833			Berger		Yendi Brothers camp

RIVERS - THUNDER

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XV	1717	Mar. 11	YK	Dau	CAGPL	Route relocation
	1730			Dau		Impact on valleys
XX	2404	Mar. 18		Clark	CAGPL	PAAG Report re: river crossings, impact in valley
45	5888	May 24		Horte	CAGPL	Cross delta route
59	8339	Aug. 21		Mirosh	Foothills	Foothills route deviation at Travallant Lake; avoid denning sites; up-stream river crossing
	8395			Bouckhout	Foothills	Foothills route change; denning sites
60	8532	Aug. 22		Bouckhout		Recommendations for Foothills route change because of denning sites
74	10975	Oct. 17		Williams	CAGPL	Foothills not shown drill hole data on alignment sheets north of Thunder River; Foothills spreads
78	11588-93	Oct. 23		Roed	CARC	River crossings; steep valley walls, east of the Franklins route
80	11871	Nov. 4		McCart	CAGPL	Concern re impact of river crossing
81	11989-90	Nov. 5		Clark Hemstock	CAGPL	Possible relocation of compressor site for environmental reasons
83	12372-12406	Nov. 7		Minning Hemstock Williams	CAGPL CAGPL CAGPL	Discussion of compressor station MO-4 as typical; borrow site locations; borrow requirements; minimum requirements requested; deposit quality; possibility of using other distant site; rip-rap; backfill sources; weights manufacture; stockpiling

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98	14920	Dec. 8	YK	Jakimchuk	CAGPL	Bluenose herd wintering ground
99	15109	Dec. 9		Bouckhout	Foothills	Wharf relocation to minimize impact on mammals
	15126			Finney	Foothills	Wharf sites, importance to waterfowl, shorebirds
100	15333	Dec. 10		Scott	MVPI	Realignment between mile 90 and Thunder River
	15346-50			Bouckhout		Wharf, stockpile site moved, fox dens in area
130	19743	Mar. 16		Williams	CAGPL	Route changes near river
	19756			Hollingshead	CAGPL	Terrain crossed by route north of river
133	20164	Mar. 23		Rowe	CAGPL	Pipeline crossing below moose wintering ground
135	20519	Mar. 25		Banfield	CAGPL	River crossing site change
194	30426	Oct. 6		Lipsett	MVPI	Potential for oil pipeline burial increases south of river

RIVERS - WILLOWLAKE

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XXI	2435-37	Mar. 19	YK	Hollingshead	CAGPL	Slide presentation: crossing prior to revision
XXII	2633-34	Mar. 20		Cooper	CAGPL	Flow under normal ice cover - ice jam above pipeline crossing
	2650-55			Hollingshead		River crossing slide, sag point, excavation: crossing technique
XXIV	2803	Apr. 7		Lane	COPE/ITC	Borrow materials
	2812			Cooper		Volume of water flowing gauged
	2847-49			Clark Hollingshead	CAGPL	Crossing - ditches, sag point
XXVII	3361	Apr. 10		Slusarchuk	CAGPL	Warm permafrost
	3367			Scott	MVPI	Ice content in soil
XXXIII	4367	Apr. 21		Dau	CAGPL	Major crossing
46	6106-12	June 2		Templeton	EPB	Potential for major terrain disturbance as far south as the river, drainage disruption to the south
47	6299-6313	June 3		Adam	EPB	South of river - gas recommended above freezing
48	6440	June 4		Templeton		Pipeline to operate above freezing south of river - recommendation
59	8383	Aug. 21		Gillespie	Foothills	Foothills route revision of north and south approaches to avoid crossing at steep slopes
	8401			Mirosh	Foothills	Chilling temperature of the pipe; soil degradation
60	8542-54	Aug. 22		Gillespie	Foothills	Revision to Foothills line made to avoid steep cross slopes
61	8618-22	Sept. 15		Gibbs	Foothills	Location of grave sites at Fort Alexander in the vicinity of Willowlake River; location of Foothills line
64	9422	Sept. 18		Spafford	Foothills	Defined as a 'large' river; suited as granular source
65	9531	Sept. 19		Scott		Terrain typing from Willowlake south
67	9963	Sept. 23		Mirosh	Foothills	Terrain in area of spread similar to Alberta
72	10777-87	Oct. 15		Berger Adam	EPB	Ceasing of a chilled pipe around Willowlake River; various views as to impact
	10799-800			Adam		End of chilled pipeline; bore hole data re: permafrost, excess ice
76	11317-34	Oct. 21		Hughes	CARC	Termination point of pipeline chilling as recommended by Dr. Adam
77	11353-77	Oct. 22		Rutter	CARC	Distribution of permafrost north of Willowlake River; terrain conditions and hazards; pipeline route
	11381-442			Rutter		East of the Franklins Route; south of Willowlake River by CAGPL; Rutter proposes a route north of Willowlake River; terrain conditions
78	11553-54	Oct. 23		Roed	CARC	River crossings
	11588-96			Roed		River crossings; steep valley walls; east of the Franklins
	11642			Minning	CAGPL	Area of ground water activity
80	11817	Nov. 4		Clark	CAGPL	Field studies between Willowlake River and south into Alberta
86	12886	Nov. 13		Reeves	Foothills	Fort Alexander, archaeological site near line and river

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99	15108	Dec. 9	YK	Bouckhout	Foothills	Adjustment to route
100	15292	Dec. 10		Hayden	Foothills	More information required about fish populations
101	15335 15429-31	Dec.11		Scott Peterson	MVPI CARC	Abandoned CNT line from mile 90 to river Highly sensitive aquatic area; concentrated archaeological site as avoidance area, Guideline #4
	15464-66			Zoltai	CARC	Sensitive terrain area north of river; river crossing
	15525-26	Dec.11		Scott Zoltai	MVPI CARC	Area near crossing, western flank of Franklin Mountains sensitive terrain
	15535-41			Zoltai		Areas north, south of river, groundwater disruption problems
102	15545-47			Peterson	CARC	Monitoring, south-west corner, proposed Willow Lake IBP site
103	15724 15735 15794	Dec.15		Stein Stein Millen	CARC CARC	Fish overwintering areas previously identified Avoidance of pipeline route Winter crossing consideration
105	15995	Dec.17		Millen		Streams between Lake and Great Bear run open in October, construction of roads
	16028			Marshall	CAGPL	Bridge crossing
C-28	2833 2844	Sept. 11	Wr	Berger H. Hardisty	 Citizen	Boots Brothers camp Concern that companies are going to communities without consulting chief who represents them; problems of lack of understanding
132	20079-80	Mar.18	YK	Williams	CAGPL	Winter flow not a hazard to winter construction

ROADS - PERMANENT PROJECT

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XVI	1867-68	Mar.12	YK	Dau	CAGPL	Land requirements
XXIII	2728-29	Mar.21		Clark	CAGPL	Permanent access roads with culverts
XXXIV	4498	Apr. 22		Williams	CAGPL	Possible permanent road resulting from snow road, Old Crow to nearby spread camp
42	5518	May 21		Horte	CAGPL	Sensitive areas, valleys, L.G.P.'s
53	7081-93	Aug.13	WH	Williams		Question of permanent road across North Slope
53-A	7300	Aug.13		Leonard	CARC	Implications of roads, interior route
	7334-36			Thompson	CARC	Meaning to Arctic Wildlife Range
C-23	2366-77	Aug.14		D.Taylor	Citizen	Drainage will increase mosquito population
63	9062-64	Sept.17	YK	Mirosh	Foothills	Used in addition to helicopters for transport
80	11900-01 11919	Nov. 4		Williams Hemstock	 CAGPL	Borrow pits used all seasons to have permanent access roads No permanent roads to be built on North Slope
82	12167	Nov. 6		Minning	CAGPL	Request by Veale re number of permanent roads to borrow sites along interior route
	12204-05			Williams		Closing of road from MP443 to Whitehorse decision of regulatory authorities
	12258-59			Williams		Construction of all weather roads allowing access a matter of environmental concern
83	12374-12406	Nov. 7		Environmental Panel	CAGPL	Thunder River compressor station road gravel requirements, select material not required for full depth, stockpiling gravel on roads
92	13977-78	Nov.21		Bayly	COPE/ITC	Eventual construction of; north slope, interior routes
101	15396	Dec.11		Kondla	Foothills	Need for study of permanent roads in fens and swamps
111	16942	Jan.16		Lent	CARC	Impact of dust from Prudhoe Bay roads; spraying with oil
115	17535-40	Jan.23	In	Stamberg	GPC-D-G	Parsons Lake gas field, roads connecting facilities, well sites
	17546-47			Stamberg		Parsons Lake gas field, roads connecting facilities are all-weather; construction, specifications, length
	17583-84			Stamberg		Parsons Lake gas field, special road for moving construction modules for gas plant

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116	17606	Jan.24	YK	Stamberg	GPC-D-G	Impracticability of transporting gas plant construction modules by road to Parsons Lake site
	17632-33			Scott Scott	MVPI GPC-D-G	Necessity of permanent road if joint airstrip between GULF and CAGSL, possible location of road and airstrip
	17638-39	Jan.24		Scott Stamberg	MVPI	Maintenance of roads, gravel to alleviate possibility of soil erosions, slope instability and thermokarst in Parsons Lake region
	17649-52			Rempel	GPC-D-I	Construction of roads, alteration of drainage and flood patterns, vegetation changes, disturbance of bird habitats by construction, effect on mammals
130	19738	Mar.16	YK	Marshall	CAGPL	All-weather road planned, Ace Point to Mackenzie Highway
	19744			Williams	CAGPL	Deletion of road from Middle Channel to old CD-Q8 site
	19773			Williams		All-weather road near Axe Point, construction schedule
131	19881	Mar.17		Williams		Gravel requirements for roads on cross-Delta route
	19886			Williams		If snow roads not used or work done in summer, gravel roads necessary along cross-Delta route
	19937-39			Gibbs Williams	Foothills CAGPL	Foothills may use gravel work pad, summer construction on Richards Island; CAGPL doesn't plan this
132	20128	Mar.18		Williams		All-weather road to be built to Axe Point
134	20346-48	Mar.24		McCart Berger	CAGPL	Possible impacts on fish of road needed if cross-Delta and coastal routes constructed in summer, gravel required
135	20493	Mar.25		McCart		Would be adverse to oil pipeline built with road, North Slope
194	30288	Oct. 6		Templeton	EPB	Opposed to proposals for a road from Inuvik to Tuktoyaktuk
	30370-71			Hemstock	CAGPL	Road access to sections of Interior route would be needed year round
	30442			Wylie	MVPI	An all-weather road not required to build oil pipeline

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XVI	1867-68	Mar.12	YK	Dau	CAGPL	Land requirements
XVII	1996-97	Mar.13		Watson	CAGPL	Water requirements for snow/ice roads
XIX	2204-05	Mar.17		Williams	CAGPL	Sans Sault test site; research; snow roads, gravel roads
XLXA	2263-64	Mar.17		Clark	CAGPL	Adequacy; stability; snow roads
XXIII	2686	Mar.21		Templeton	EPB	Environmental implications of haul (snow) roads
	2701-03			Williams		Snow roads, CAGPL Responses, water required
XXIV	2803-08	Apr.7		Williams		Snow borrow, use of hard track vehicles
XXVII	3361-65	Apr.10		Williams		Norman Wells, effect on permafrost
	3373-75			Scott	MVPI	Test sites
XXVIII	3554	Apr.11		Morgenstern	CAGPL	Snow, ice
XXXIII	4262-63	Apr. 21		Dau	CAGPL	Prefer to use Mackenzie Highway
	4300			Dau		Traffic lane while ditching
	4304-25			Dau		Support facilities, access roads, traffic lane, winter trails
	4370			Dau		Clean-up to requirements of land owner
XXXIV	4416-17	Apr. 22		Dau		Snow thickness, possible late completion
	4399			Dau		Snow road, preparation timing
	4451-52			Williams		Snow, moving pipe from spread to spread
	4482-83			Dau		Testing, methods of obtaining snow
	4490			Williams		Snow road, Komakuk Beach
XXXV	4632	Apr. 23		Dau		Trucking over snow road
	4560-67/8			Williams		Snow roads - compacted depth, density ratio
XXXVII	4718-19	May 13		O'Rourke	CAGPL	Snow roads, pipe shipment
	4793-94			O'Rourke		Snow road from Fort Nelson to Fort Simpson
XXXVIII	4823	May 14		Dau		Aerial seeding

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XXXVIII	4854-57	May 14	YK	Lucas	CARC	Snow roads, ice capping
	4861-64			Dau	CAGPL	Temporary access, location
	4887			Marshall	CAGPL	Monitoring snow road tests, Inuvik
	4904-13			Williams	CAGPL	Oct., beginning of snow road construction
	4946-52			Goudge	MVPI	ROW
	4971-72			Dau	CAGPL	Movement of camp facilities
	4991-5002			Goudge		Snow roads, first on winter construction schedule
XXXIX	5005-33	May 15		Williams		Snow roads - end of season movement of camps
	5045-46			Williams		Roads between stockpile sites and final destination
	5064-67			Dau		Snow accumulation and manufacture for snow roads
	5148-49			Harlan	CAGPL	Trench through road to construct diversion dikes
	5091-92			Marshall		Alyeska - snow roads
42	5480-81	May 21		Scott	MVPI	Possible snow road along route
46	6074	June 2		Craik	EPB	Terrain degradation report #3 appendix VI
	6112-19			Adam	EPB	Criteria for seasonal limits on road use
	6127-39			Bliss	EPB	Interaction of terrain and vegetation
48	6402-06	June 4		Adam		Sec 20 of Code: regulations re: terrain degradation
49	6454-55	June 5		Anthony	CARC	Alyeska snow roads - undertaking May 15
C-I	51	Apr.2	Aklavik	Ross	Citizen	Movement of heavy equipment
C-14	1297-98	July 11	O.C.	C. Charlie	Citizen	Traffic to Old Crow; road through Klo-Kut
C-15	1470-71	July 12		Irving	Citizen	Damage to Klo-Kut Archaeological site
C-17	1749-51	July 17	F.L.	McLeod	Citizen	Impact on environment
51	6806	Aug.11	WH	Hemstock	CAGPL	Revegetation of areas disturbed by snow and ice roads
52	6886-6887	Aug.12		Banfield	CAGPL	Use and impact along Prudhoe Bay Supply line
	7007-11			Banfield		Water required by snow roads
53	7081-91	Aug.13		Williams	CAGPL	Need for gravel pads on haul roads on North Slope
53A	7301-02	Aug.13		Leonard	CARC	Recommendations to lessen environmental impact
54	7521	Aug.14		Parker	CARC	Access to Prudhoe Bay oil fields; ice roads; tonnage carried in
	7534-35			Parker		Haul roads used for pipeline construction re: Alyeska; all weather gravel roads required; minimally constructed roads do not stand up under rainfall or heavy truck traffic conditions
	7546			Weeden	CARC	Use of Alyeska corridor makes use of existing facilities; Arctic Gas to use snow roads and snow work pads; El Paso to use Alyeska haul road and state highway; also a snow pad for laying the pipe
	7564			Parker		Snow roads, feasibility for construction movement, Alyeska
55	7640	Aug.15		Morlan	CARC	Snow roads - impact on archaeological sites
C-21	2091	Aug.9	NW	G.Monuik	Citizen	Development of first winter roads in NWT 1959
C-23	2376-77	Aug.14	WH	D.Taylor	Citizen	Drainage ditches breed mosquitoes
63	9049	Sept.17	YK	Mirosh	Foothills	Use of winter roads to transport repair force when air travel impossible
65	9604	Sept.19		Mirosh		Use of existing winter road from Fort Simpson to Inuvik
	9606			Bauer	Foothills	Use of snow roads on sensitive terrain
	9629-38			Jarvis	Foothills	Reports and schedules of snow availability for roads
66	9683-9752	Sept.22				Roads within right-of-way; semi-permanent road for clearing operations and access; roads connecting camps
	9705-43			Jarvis		Use of frozen soil; snow making machines; snow fences; starting dates; studies
	9745-46			Mirosh	Foothills	Use of winter road when flight impossible
	9785-97			Kosten Jarvis	Foothills	Conditions of snow roads and climate as gauge to duration of construction season

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66	9818-27	Sept. 22	YK	Jarvis	Foothills	Snow fences; snow-making machines; effects on overwintering fish of snow removal from lakes
	9827-31			Jarvis		Contingency plans to ensure adequate snow for roads; water sources and effect on fish; repair of snow roads
67	9843-44	Sept.23		Templeton	EPB	Attempt to get specific information from Foothills re hrrow sources & requirements & use of snow or permanent project roads
	9855-72			Jarvis		Alyeska rejection of snow roads; conditions necessary to build snow roads; ice bridge; snow melt criteria, compilation of snowroad data by EPB; shut down & prevention of terrain degradation in spring
	9915			Mirosh	Foothills	Larger pipeline such as CAGPL plans would have more difficulty with snowroad
	9931-33			Mirosh		Study of CNT line winter road
	9982-84			Mirosh		Impact of repeated winter road construction in same locale; Foothills plans to use non-existent permanent winter road to complement barge & air supply
	10026-27			Jarvis	Foothills	Comments on Inuvik snow road study
	10033			Jarvis		Frost penetration necessary for hauling by low pressure vehicles
68	10094-95	Sept.24		Mirosh	Foothills	Use of winter road from Yellowknife to Inuvik
	10099-10104			Hushion	Foothills	Use of right-of-way as roadway; gas plant operators employing winter roads to Inuvik
	10112			Hushion		Use of winter roads for transport of operations & maintenance supplies; use of road between Fort Nelson & Fort Simpson
	10145-46			Williams	CAGPL	Stipulations presented to contractors re snow roads
	10149-50			Williams		Snow road construction considered within time frame of contractors
	10168-70			Williams		Climatic conditions during snow road tests at Inuvik
	10219-20			Templeton	EPB	Snow road report by Adams challenged
70	10507	Sept.26		Owen	MVPI	Snow roads; Pointed Mountain Line; construction techniques
	10541-54			Longlitz	MVPI	Land use permits re: snowroads, winter construction operations; surface disturbances
71	10602-11	Oct.14		Templeton Longlitz		Construction and use of snow roads; codes; traffic on a snow road; passes by a bull dozer; work stopages due to break-up
	10642-47			Bayly Longlitz	COPE/ITC	Winter access roads, snow roads; attempts to minimize impact; review of application by Land Use Advisory Committee, Game Management Division, communities; Alavik re: land use permits; impact on hunting and other subsistence activities; disturbance and negligence on the part of the operator
	10657-88			Bayly Longlitz		Shut down of snow roads; close-up time needed; input of various departments into land use permit agreements; community input; construction impact on the environment
72	10722-31	Oct.15		Longlitz	MVPI	Snow road construction; testing by Arctic Gas in Inuvik inducement of frost penetration; damage to the right-of-way; use of rologons, terra-tired or soft-track vehicles; construction scheduling; close-up intervale; snow making techniques; extention of shut down dates by snow production and timing of snow road use
	10806-12			Adam	EPB	Snow roads; start up, shut down dates; extended use; snow making
74	10971-11013	Oct.17		Williams	CAGPL	Snow roads; start up and shut down schedules; induced frost; studies; Dr. Adams testimony; hauling of snow from lakes and rivers; all-terrain vehicles; soil and terrain information; areas of continuous and discontinuous permafrost; drill hole data
75	11025-34	Oct.20		Weeden Parker	CARC CARC	Reports; Arctic Gas Report; test site in Inuvik; Alaska experiences re: thin work pads
	11100-03			Weeden		Need for water during October and November for snow road construction; impact on fish populations; reports

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76	11221-24	Oct.21	YK	Parker	CARC	Winter road connecting Fort Simpson to Fort Nelson; winter road use to mobilize equipment; weight of equipment
	11249			Parker		Winter road between Fort Simpson and Fort Nelson
78	11529	Oct.23		Roed	CARC	Winter road, truck in pipe lengths; needed for 2 staging areas; stock-pile site for material brought up the Mackenzie during the summer; truck into area during winter
	11563-64B			Roed		Winter roads; costs; edge of the shield, east of the Franklins
	11573-75			Roed		Denison's ice road
80	11898-11901	Nov. 4		Williams	CAGPL	Use of snow roads to move equipment to borrow sites on active flood plains
	11918			Hemstock	CAGPL	Use of snow roads on North Slope
	12100-14			Harlan Williams	CAGPL	Water requirements for building of snow roads
81	12006-07	Nov. 5		Hemstock		Restoration of road areas after use
82	12172	Nov. 6		Williams		Snow road grading along interior route
	12191-92			Williams		Water to be transported from Porcupine river to Pipeline by snow roads; more snow roads anticipated along interior route
83	12430-33	Nov. 7		Scott Williams	MVPI	Snow road to move gravel mining equipment to sites, spread C, scheduling
	12512-13			Scott Williams		Disposal of excess spoil on snow road
	12601-02			Bayly Williams	COPE/ITC	Snow roads, Spread "C", water required
85	12628-30	Nov. 12		Bayly Williams		Water requirements, snow roads, North Slope, sources
86	12868-69	Nov. 13		Vaartnou	Foothills	Revegetation
	13037-48			Williams		Fort Simpson spread snow roads, scheduling, snow manufacturing
87	13093-94	Nov. 14		Berger		Bulldozing of Klokut archaeological site, Old Crow winter road
88-A	13376-77	Nov.17		Dabbs	CAGPL	Effects of snow roads on vegetation underneath
89	13470	Nov.18		Jakimchuk	CAGPL	Caribou use roads
	13558-61			Dabbs		Effects of snow roads on vegetation
90	13584-89	Nov.19		Hemstock Dabbs	CAGPL	Effects of snow roads on vegetation; recommendations
93	14066-68	Dec.1		McCart	CAGPL	Snow roads interference with fish passage; clean up upon abandonment; spring breakup
95	14427-28	Dec.3		Berger Banfield	CAGPL	Assumption re: pipeline to exist in isolation from a road on the North Slope; snow road/all weather road change access, disturbance to mammals, birds
	14435-51			Scott Marshall Berger Banfield	MVPI CAGPL	Corridor concept;all weather road/snow road; assumptions re: assessment of environmental impact, North Slope access
96	14584-85	Dec.4		Hemstock Jakimchuk		Snow road - deflection of a caribou migration;
	14674-78			Jakimchuk		Snow roads and fences; gaps left in snow fences for caribou passage; prevailing winds re: snow fences; removal prior to spring migration
98	14964-67	Dec.8		Berger		Possible need for road on future development
101	15461-62	Dec.11		Zoltai	CARC	Snow roads on hummocky terrain, terms and conditions
	15529			Zoltai		Abandoned CNT line has been used as winter road
103	15790-91	Dec.15		Millen	CARC	To wharf sites - engineering considerations
	15812			Millen		Ochre River - flow variation at crossings
104	15969	Dec.16		Walker	CARC	Resource impact comparison re temporary/permanent road on Yukon North Slope
105	16043-44	Dec.17		Marshall	CAGPL	Water use re construction in fall and early winter
	16068-69			Marshall Millen		Ice roads compared to all-weather roads, erosion control measures and drainage provisions

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106	16164-65	Dec.18	YK	Lent	CARC	False assurance about environmental damage re ice or snow roads
107	16350-52	Jan.12		Adam	EPB	Snow roads, Norman Wells, Inuvik test roads; degradation of terrain; hauling of snow; construction; gravel roads
	16359-64			Berger Adam		Snow roads versus winter roads; snow road tests; usage ; Mr. Parker of Alaska, views
108	16480-91	Jan.13		Templeton Adam	EPB	Shutdown, lag time re snow roads; shut off dates; time needed to close up an operation; climate; unfrozen peat lands, ice bridges; hauling of snow; usage of snow roads - loadings, schedules
	16496-506			Adam Templeton		Construction techniques; misuse; snow road versus a winter road; thaw settlement; ponding and depressions; erosion
	16545			Bliss	EPB	Unknown as to extent of snow road damage on vegetation
109	16684	Jan.14		Adam	EPB	Need for snow road construction testing
110	16767-68	Jan.15		Bergerud	CARC	Use of snow roads, trails, by wolves, access to caribou; interior route
	16770			Bergerud	CARC	Use of snow roads - access to caribou
	16827			Calef	CARC	Jakimchuk's studies of winter roads, attracted by salt, and snow cleaning
111	16934-35	Jan.16		Bergerud	CARC	Snow roads changing wolf-caribou interaction
C-24	2409-10	Aug. 23	TL	Nahanni	NWT IB/MA	Simpson Road, winter road that goes to Simpson
C-28	2787	Sept. 10	Wr	H. Hardisty	Citizen	Winter road re: impact of construction crew on hunting and trapping
C-39	3729	Feb.18	In	Hill	Citizen	Tote road built while Dempster Highway construction is halted
114	17282	Jan.22		Mainland	GPC-D-I	Taglu gas field, accessible by ice road from navigable waterway
116	17635-38	Jan.24		Scott Stamberg	MVPI GPC-D-G	Snow roads to connect Lucas Point and Parsons Lake, season, annual construction along same route, effects on terrain
	17640-41			Ballem	GPC-D	Start-up construction date for ice roads
	17701			Appleton	GPC-D-G	Fuel transportation to Parsons Lake development
	17716			Webb	GPC-D	Prevention of drainage disruption, ponding after construction
117	17766-70	Jan.26		Appleton Rempel Wopnford	GPC-D-G GPC-D-I GPC-D-S	Multiple year use of snow road, Swimming Point to Parsons Lake, damage to vegetation; experience of Imperial and Shell with snow roads
131	19898-933	Mar.17	YK	Williams	CAGPL	Water requirements for snow roads; tests at Inuvik; snow sources; possible North Slope problems, Alaska experiences; snow making equipment, tests, techniques, problems
132	20013 20110	Mar.18		Williams Williams	CAGPL	Snow harvest from lakes for roads on Delta Equipment for compressor station CD-08 will be hauled on winter road
134	20221-25	Mar.24		Jakimchuk	CAGPL	Possible impact of snow harvest from lakes used by muskrats
151	23057-59 23068	May5		Irving Irving	CYI	Partial destruction of the Klo-Kut archaeological site by construction of a winter road Klo-Kut archaeological site, damage by a cut road
159-A	24611	July 7		Trusty	CAGPL	Alyeska, use of haul road
191	29762	Sept. 24		Hagglund	MVPI	Winter road between Inuvik and Tuk on Mackenzie Highway
194	30285-87	Oct. 6		Templeton	EPB	Foothills' proposed 50 mile gravel pad not a necessity for pipeline construction
	30323-26			Doyle	EPB	Time required - Agency review of snow, ice roads
	30353-54			Hemstock	CAGPL	Historical review - winter road use in Mackenzie corridor
	30392-97			Hemstock		Snow road contingency plans, utilization
	30442			Wylie	MVPI	Snow roads would be used to construct oil pipeline

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195	30463-522	Oct. 7	YK	Mirosh	Foothills	Gravel pad construction for spreads, utilization for looping, on north slope; gravel road, pad compared; ability of construction equipment to perform during winter
	30593-97			Fowler	CAGPL	Prudhoe Bay experience - drilling support installation pipe welding, laying carried out on snow pad; start-up, termination dates
	30606-08			Dau	CAGPL	Degree day requirements for snow road construction start-up, utilization, abandonment at Inuvik
	30660-62			Daniels	CAGPL	Alyeska north slope snow road compared to road proposed by CAGPL
	30677-79			Daniels		Impact of construction equipment on snow roads
196	30904-05	Oct. 12		Skinnarland	CARC	Water requirements for snow road construction; snow roads on Alyeska
197	31138-40	Oct. 13		Norton	MVPI	Problems encountered with snow road from fuel line to serve as pumping stations: maintenance costs, unnecessary manpower, terrain damage caused by gravel
201	31782-85	Nov. 16		Marshall	CAGPL	Snow roads - start-up, shutdown dates on North Slope, Mackenzie Delta
	31795-98			Marshall		Snow harvesting on North Slope; snow road tests at Norman Wells
202	32049-51	Nov. 17		Anthony	CARC	Failure of CAGPL to demonstrate that construction schedule could be maintained employing only snow roads; further studies
204	32278	Nov. 19		Ballem	CPC-D	Use of snow roads without noticeable environmental impact

ROUTE - CROSS DELTA ROUTE CHANGE

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XV	1717	Mar.11	YK	Scott Genest	MVPI CAGPL	Filing of cross-delta route material
	1719-22			Anthony Genest	CARC	Timing of presentation and filing of material; location
	1720-22			Williams	CAGPL	Location
	1739			Berger		Relationship to proposed gas plant and gathering line facilities
	1741-43			Bayly	COPE/ITC	Filing of material, timing
XVI	1773	Mar.12		Dau Gibbs	CAGPL Foothills	Compared with coastal and interior routes
	1824-25			Anthony		Location of Fairbanks route
	1840-43			Anthony Dau		Terrain information, sensitivity of delta; presentation of material
	1869-74			Berger		Mackenzie Valley corridor
XVII	1883	Mar.13		Anthony		Recall of Panel 1
	1949-50			Bayly		Environmental concerns
	1985-87			Mollard Bayly	CAGPL	Travaillant Lake sensitive area; availability of gravel
XVII1	2026-34	Mar.14		Dau Bayly		Technical reasons for re-consideration
	2082-88			Dau Scott		Relocation - economic, technical, environmental reasons; filing of proposed changes
	2105-11			Scott Dau		Location of compressor stations; socio-economic input into route selection
	2124-25			Dau		Under "active" consideration
XLXA	2291-92	Mar.17		Clark	CAGPL	Geotechnical assessment; drilling; river crossings
XX	2294-95	Mar.18		Anthony	CARC	Provision of environmental information by CAGPL
XXI	2507-12	Mar.19		Hollingsworth Hollingshead	Foothills CAGPL	Dual pipe, lengths twinned: distance between pipes; potential failures; pipe diameter

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XXII	2533-34 2638-48	Mar.20	YK	Clark Clark Hollingshead	CAGPL CAGPL	Sloping ground, instability, Shallow Bay Shallow Bay, drill holes, no permafrost, frost susceptible soil, frost heave; bed scour predictions, dual crossing
XXIII	2671 2759-61	Mar.21		Genest Scott Genest	CAGPL MVPI	Filing of alignment sheets for exhibit Re questions in volume XIX, 2127-28, listing of reports, Cross Delta Route Alternative
XXV	2948 2981-90	Apr.8		Genest Cooper	 CAGPL	Drill hole data Deep holes - problem of crossings, drill holes
XXVII	3289-91	Apr.10		Williams	CAGPL	Alternatives, when decision made
XXIX	3603-18	Apr.14		Clark		Shallow Bay crossing - temperature probes, bore hole spacing near Travailant Lake
XXXVII	4741	May 13		Bayly	COPE/ITC	Shingle Point camp size, additional facilities
41	5273	May 20		Scott		Physical environment of on-shore portion, Mackenzie Delta
42	5418-20	May 21		Hurd	CAGPL	Pipeline repairs, Shallow Bay
43	5592 5661-72 5679	May 22		Horte Horte Berger	CAGPL	Status in decision making process Volume, additional horsepower Likelihood of looping, continuation of construction
44	5716-19 5722-24 5863-71	May 23		Templeton Templeton Bayly	EPB	Environmental impact evidence Environmental studies Selection, location
45	5886-92 5937-38	May 24		Bayly Bayly		Alternative route Reports on route, availability
46	6094	June 2		Templeton	EPB	No comment yet due to lack of time and information
47	6186 6239	June 3		McT-Cowan Templeton	EPB	Danger of spills to waterfowl, no lead time Geotechnical and environmental studies
48	6439	June 4		Templeton		Should be deleted - lack information to form opinion
49	6518-24 6549	June 5		Horte Horte	CAGPL	Environmental studies done by CAGPL No meeting with government
C-I	43-45	Apr.2	Aklavik	Hemstock	CAGPL	Location of the route through delta
C-II	111-12	Apr.3		J.Sittichinli	Citizen	High tides, Shallow Bay
C-11	1036	July 8	F. McP.	Workman	CAGPL	Location of route across Mackenzie Delta
C-13	1261	July 10		J. Charlie	Citizen	Too close to Fort McPherson - change to Shallow Bay route
56	7840-47	Aug. 18	YK	Horte		Cost saving provided; environmental concerns; environmental and operational feasibility; studies
52	6938-43 6953-56	Aug.12	WH	Williams Hemstock Banfield	CAGPL CAGPL	Current status of proposal; effect of looping Conflict over environmental impact levels
61-A	8758	Sept.15	YK	Berger Marshall	CAGPL	Burial depth of Foothills pipes; depth of river ice scour
62	8795-8808 8822-23	Sept.16		Marshall Berger Gibbs Mirosh	 Foothills Foothills	Gas supply; alternative routes; studies; releasing of studies; Prudhoe Bay reserves and supply line Foothills studies and research; environmental considerations
63	9071-82	Sept.17		Berger		Evidence to be presented at Inuvik hearings in January 1976
64	9342-47	Sept.18		Yip	Foothills	Geotechnical assessment of Cross-Delta route
65	9588	Sept.19		Yip		Re: studies carried out by Foothills
68	10173-74	Sept.24		Genest	CAGPL	Submission of supplementary material to application re cross - Delta route alternative & alignment sheets
80	11835-39 11867-72	Nov. 4		Scott Hemstock	MVPI CAGPL	Full disclosure of final decision preceded by advance notice - similar notice should be given re other route changes under consideration Economic rationale; environmental studies and impact

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83	12331	Nov.7	YK	Marshall	CAGPL	CAGPL announces cross-Delta Route part of prime route; amendment and reports forthcoming
	12369			Scott Minning	CAGPL	Increased requirements for gravel for this route; none in Delta, will come from east and west sides
	12383-85			Berger Scott		Consideration of route in Inuvik hearings
	12520-22			Hollingworth Foot- hills		Evidence on route to be given at Inuvik
85-A	12772-90	Nov.12		Scott McCart	CAGPL	Gravel mining, siltation
89	13433-34	Nov.18		Berger Gunn	CAGPL	Reservations about route, ornithologically
	13460			Jakimchuk	CAGPL	No effect on Mt. Goodenough Dall Sheep
90	13731-32	Nov.19		Gibbs Hemstock	Foothills	Announcement at NEB as part of prime route
91	13775-77	Nov.20		Marshall McCart		New crossing of Mackenzie at Tununuk Point
	13783-96			Berger Anthony Ryder Bayly McCart	CARC MVPI COPE/ITC	Will be discussed in Inuvik; impact information prior to selection as prime route
93	14124	Dec. 1		Gunn	CAGPL	Birds general; disturbance, Delta phase
	14173-75			Gunn		Staging area of snow geese in the Delta region
94	14212-44			Environmental Panel	CAGPL	Delta region - fur-bearers, water-fowl, fish; Shallow Bay; research; recommendations
	14291-95			Berger		Impact on Delta; carrying Alaskan gas; economics of shale, oil availability
	14246-48			Jakimchuk	CAGPL	Possible interference with caribou herds in the Aklavik area; harrassment; compensation; blasting
97	14772-78	Dec.5		Hemstock Gunn	CAGPL	Selection, decision-making process, environmental approach
	14804			Gunn		Recommendation mentioned related to pre-delta-crossing route
	14806			McCart	CAGPL	Opinion of route
	14848			Gunn		Route close to swan nesting grounds
98	14920	Dec.8		Scott	MVPI	Bluenose herd overwintering near line
99	15054-104	Dec. 9		Environmental Panel	CAGPL	Impact on wilderness values of area
	15120			Hayden	Foothills	Foothills will not use route, possible adverse effects
101	15434	Dec.11		Peterson	CARC	Shoalwater Bay, very critical exclusion area
	15510-16			Peterson Berger		Original guideline corridors did not include route
	15521-22			Zoltai	CARC	Terrain sensitivity
102	15550	Dec.12		Peterson		Application for route not assumed in development of pipeline guidelines
104	15896-99	Dec.16		Bayly	COPE/ITC	Impact of crossing, dredging at Shallow Bay on beluga whale, white fish, cisco, inconnu, Arctic char populations
105	16012-13	Dec.17		Stein	CARC	Gaps in data re new alignment changes, full compilation not yet done
106	16278	Dec.18		Marshall	CAGPL	Comparison of two routes re ornithological point of view, recommendations in "Ornithological Studies, Cross-Delta Route" December 1975
107	16311-17	Jan.12		Templeton	EPB	Environmental impact assessment inadequate; unique area; permafrost; Shallow Bay; Travaillant Lake
108	16414-15	Jan.13		Templeton		No route assessment by EPB
	16523-25			Gourdeau Berger	EPB	Consideration of new route; proximity to native villages; Aklavik
109	16596-601	Jan.14		Templeton Thomson Bliss	EPB EPB	Study consideration of impacts; adequacies of information base
	16606-11			Templeton Craik Gourdeau	EPB	Scheduling; worker control

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109	16630	Jan. 14	YK	Thomson	EPB	Channel stabilization, revegetation; climax vegetation
C-36	3506	Jan. 29	In	Workman	CAGPL	Reasoning associated with route change
112	17006	Jan. 20		Berger		Impact of route on Mackenzie Delta
	17076			Berger Bliss	GPC-D	Intrusion of route into beluga calving area, Shallow Bay
122	18584-87	Feb. 11		Barry	COPE/ITC	Definition, evaluation of Barry route proposal
	18725-26			Barry		Definition of Barry route proposal
125	19022	Feb. 14		Lewis	COPE/ITC	Evaluation of CAGPL, Barry routes - geomorphological basis (general)
130	19735-80	Mar. 16	YK	Marshall Engineering Panel	CAGPL CAGPL	Letter from Marshall to Scott re CAGPL's cross-Delta route refinements; evidence in chief re cross-Delta route
	19784-94			Williams	CAGPL	Reason for choice of cross-Delta, studies, "uniqueness" of route
131	19840-981	Mar. 17		Engineering Panel		Construction of route, river crossings, etc.
	19981-20006			Engineering Panel		Construction of route, river crossings, etc
132	20008-14	Mar. 18		Engineering Panel		Construction of route, river crossings, etc.
	20014-152			Engineering Panel		Construction of route, etc.
133	20121-64	Mar. 23		Environmental Panel	CAGPL	Evidence-in-chief re impact of cross-Delta route
	20163			Environmental Panel		Advantages of route

THIS HEADING NOW INCORPORATES REFERENCES TO THE SECTION OF THE LINE FROM RICHARDS ISLAND TO PRUDHOE BAY ACROSS THE DELTA.

134	20207A-79	Mar. 24	YK	Environmental panel	CAGPL	Cross-examination by Bayly re impact of route
	20280-347			Environmental panel		Cross-examination by Hollingworth re impact of route
	20348-98			Environmental panel		Cross-examination by Scott re impact of route
135	20429-500	Mar. 25		Environmental		Cross-examination by Scott re impact of route
	20520-32			Banfield Hemstock	CAGPL CAGPL	Cross-Delta route, channel crossings; IBP sites air river traffic, Delta area; advantages of cross-Delta route
	20532-45			Hemstock		Impact of air traffic; barge traffic; circum - versus cross-Delta route flight restrictions; impact on hunting, trapping areas; IBP sites
	20546-60			Hemstock		Cross-Delta route versus alternates
136	20605-06	Mar. 26		Hemstock		Consultants advice on advantages
	20610			Berger Scott	MVPI	Nomenclature of alternative cross-Delta routes
C-40	3808	Feb. 23	AK	Berger		CAGPL route change pointed out to Aklavik community
174	27070-71	Aug. 20	YK	Hollingworth Dalby	Foothills NWT/AM	Feasibility of gas supplied to Fort McPherson and Aklavik
193	30200-05	Oct. 5		Templeton	EPB	Route evaluated
	30255-62			Steeves Templeton Doyle	CAGPL RPB	Study by Bliss, Thompson - impact comparison of Interior, circum-Delta, cross-Delta routes, drawbacks in methodology of study

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201	31740-62	Nov. 16	YK	Marshall	CAGPL	Impact of pipeline construction on aesthetics, caribou, snow geese, raptors, fish
	31763-78			Marshall		Relative advantages, disadvantages of cross-delta, circum-delta routes; Barry route change
202	31901	Nov. 17		Bayly	COPE/ITC	Unacceptable to Inuvialuit
203	32103-06	Nov. 18		Anthony	CARC	Sensitivity of Mackenzie Delta; opposition to route across Shallow Bay because of environmental reasons; CAGPL has ignored problem

ROUTE - FORT SIMPSON ROUTE CHANGE

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XV	1655-57	Mar.11	YK	Dau	CAGPL	Route change near Fort Simpson - location
	1718-19			Genest	CAGPL	Filing of relevant material
	1724-27			Williams	CAGPL	Reasons for making change; location
XVI	1778-94	Mar.12		Dau		Ebbutt Hills
				Gibbs	Foothills	
				Mollard	CAGPL	
	1836-39			Mollard		Terrain information, drill hole data re: route selection
				Anthony	CARC	
	1861-63			Dau		Reasons for making change; dual pipe river crossings
				Anthony		
XVII	1923-24	Mar.13		Bell	NWTIB/MA	Location of facilities
XVIII	2082-89	Mar.14		Scott	MVPI	Relocation - economic, technical, environmental reasons; filing of change; on-going work in Ebbutt Hills area
	2105-12			Dau		Location of compressor stations; socio-economic input into route selection
	2125-26			Scott		
				Dau		
				Berger		Dual pipe crossing; cost considerations; "active" consideration
				Dau		
XIXA	2290-91	Mar.17		Clark	CAGPL	Terrain information, drilling; Ebbutt Hills slopes; Mackenzie River crossing
XX	2397	Mar.18		Clark		Drilling program to establish presence/absence of permafrost at river crossing
XXII	2650	Mar.20		Anthony		Dual crossing, insurance
XXIII	2705-07	Mar.21		Clark		Terrain information, geotechnical data
	2723-24			Clark		Terrain considerations, geotechnical & environmental data
	2739			Clark		Ebbutt Hills, environmental considerations
	2759-61			Scott		Drill hole data
XXV	2948	Apr.8		Genest		Drill hole data
	2964			Genest		Berger's question - answered tomorrow
XXVI	3090	Apr.9		Genest	CAGPL	Information promised April 8 delayed
	3159-65			Slusarchuk	CAGPL	Speckled bog
	3219-21			Scott	MVPI	Limited bore holes
XXVII	3289-91	Apr.10		Williams	CAGPL	Alternatives, when decision made
XXIX	3565	Apr.14		Marshall	CAGPL	Williams' summary re: blasting
XXX	3755-56	Apr.15		Purcell	CAGPL	Compressor stations, 48" diameter pipe/42" alternative
XXXIII	4238	Apr. 21		Dau	CAGPL	Schedule - time frame
XXXIV	4391	Apr. 22		Dau		Distance from community
XXXV	4606	Apr. 23		Williams		Summary of Terrain Units - RKM till
	4618-21			Dau		Tonnage figures to reflect change
XXXVII	4705	May 13		Genest		Input for decision on Fort Simpson route alternative
	4735			O'Rourke	CAGPL	Terrain types, alluvial meander plain
XXXIX	5108-11	May 15		Dau		Conventional construction method
40	5258	May 16		Hurd	CAGPL	Single Crossing, Great Bear River
43	5584	May 22		Horte	CAGPL	Consultants, socio-economic impact on Fort Simpson
	5714-16			Templeton	EPB	Environmental reports
44	5722-24	May 23		Templeton		Environmental studies
46	6094	June 2		Templeton		No comment yet due to lack of time and information

ROUTE - FORT SIMPSON ROUTE CHANGE (continued)

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47	6239	June 3	YK	Templeton	EPB	Geotechnical and environmental studies
48	6439	June 4		Templeton		Should be deleted - lack information to form opinion
49	6521-24	June 5		Templeton		Economic and environmental input - conflict?
59	8391-92	Aug. 21		Mirosh	Foothills	Route change by Foothills
52	6952-53	Aug. 12	WH	Hemstock	CAGPL	Environmental impact
61-A	8723-24	Sept. 15	YK	Walker	Foothills	River crossings; channel contains substantial cobbles and boulders; need for dredging and dragline operations
	8759			Berger Marshall Mirosh	CAGPL Foothills	Depth of Foothills buried pipes at river crossings; single pipes versus dual pipes; depth of ice scour, river width
64	9297-99	Sept. 18		Claridge	Foothills	Erosion and drainage more severe on heights of Ebbutt Hills; Foothills decision to skirt the Ebbutt Hills
	9395-99			Claridge		Geotechnical reason for routing around Ebbutt Hills
80	11818-19 11859-72	Nov. 4		Clark Hemstock	CAGPL	Slope stability and frost heave potential Initiation and method of arriving at decision to relocate route
83	12366-68 12406-07	Nov. 7		Scott Minning Minning	MVPI CAGPL	Scarcity of gravel on route change; substitution of low grade material for high Borrow pit environmental information in same volume as Cross-Delta
88A	13391	Nov. 17		McCart	CAGPL	Impact on fish
89	13430-31			Gunn	CAGPL	Ornithologically preferable to previous route
90	13580	Nov. 19		Dabbs	CAGPL	Suitable for revegetation
97	14773-78 14808	Dec. 5		Hemstock Templeton	CAGPL EPB	Selection, decision-making process, environmental considerations Wilimovsky's conclusions re fish given before route change
105	16012	Dec. 17		Stein	CARC	Gaps in data re new alignment changes, full compilation not get done
107	16311-13	Jan. 12		Templeton	EPB	Environmental impact assessment inadequate; Ebbutt Hills - erosion problems; chilled pipe, permafrost areas; Foothills route
108	16414-15	Jan. 13		Templeton		No assessment by EPB
109	16598-99 16633	Jan. 14		Templeton Bliss Thomson Adam	EPB EPB EPB	Study; adequacies of information, vegetation Chilling; Ebbutt Hills
C-25	2474	Sept. 8	FS	Workman	CAGPL	Route change qualified
130	19743	Mar. 16	YK	Williams	CAGPL	Prime route includes change

ROUTE - INTERIOR

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V	1663-65	Mar. 11	YK	Dau	CAGPL	Location
VI	1770-78 1824-25	Mar. 12		Gibbs Dau Anthony	Foothills CARC	Route selection; comparison with coastal route Location of Fairbanks route
VIII	2122-24	Mar. 14		Berger		Cost comparison with Prudhoe Bay Supply Line coastal route
IXA	2277-85	Mar. 17		Clark	CAGPL	Geotechnical terrain information; seismic risk; comparison with/
XI	2496-98	Mar. 19		Hollingworth Morgenstern	Foothills CAGPL	Seismic activity along interior route; pipeline design to accommodate earthquake movement
XII	2532-39	Mar. 20		Clark		Instability of mountain regions, slopes over 3 ⁰
XIII	2759-61	Mar. 21		Scott	MVPI	Re questions vol. XIX, 2127-28
XVII	3284	Apr. 10		Williams	CAGPL	Drill holes
XVIII	3460 3479-80	Apr. 11		Clark Scott Clark		Canning River, possible new icings Possible formation of open system pingoes

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XXXI	3912	Apr. 16	YK	Purcell	CAGPL	Location of compressor stations
XXXIV	4394	Apr. 22		Dau	CAGPL	Route, Yukon communities
	4429			Dau		Spread camps
	4439-40			Veale	CYI	Construction plan, winter construction period
	4469			Williams	CAGPL	Caribou migration routes
	4502-06			O'Rourke	CAGPL	Transporting men and equipment
	4532-42			O'Rourke		Tonnage, equipment and materials-Prudhoe Bay lateral
XXXV	4543-50	Apr. 23		Marshall	CAGPL	Movement of pipe via Skagway/Whitehorse
	4582-84			Dau		Double number of welds for 40 foot joints
XXXVII	4705	May 13		Genest	CAGPL	Impact of shipment on Yukon
	4713			O'Rourke		Delivery of pipeline materials
	4787-89			O'Rourke		Barge to truck transfer, movement of materials to Yukon
41	5309-10	May 20		Hurd	CAGPL	Line patrols; fixed-wing aircraft vs helicopters
46	6053	June 2		Templeton	EPB	Studying impact by region
	6066-67			Templeton		Proposed alignment; Richardson Mountains, Porcupine River
	6095			Templeton		Have studied this route
	6106			Adam	EPB	Probable regional impact matrix - preference
47	6152	June 3		Wilimovsky	EPB	Route less acceptable than coastal re: fish
49	6538-45	June 5		Horte	CAGPL	Coastal route cheaper
	6574-75			Horte		Only other route from Prudhoe Bay besides coastal
50	6679-98	June 6		Horte		Gas supply to Old Crow
56	7812	Aug. 18		Horte		Need for looping
51	6749-6881	Aug. 11	WH	Panel	CAGPL	Marsh fork option (Canning River) is located on the outside of the boundry of the Arctic National Wildlife Range; location of reserves, compressor stations - number and spacing; spreads scheduling of construction; facilities - wharves and stockpile sites; land transport, operation and maintenance; environmental impact
52	6882-7056	Aug. 12		CAGPL Routing Panel	CAGPL	Comparison with alternate routes
53	7079-7100	Aug. 13		Routing Panel	CAGPL	Implications of Arctic International Wildlife Range
	7111			Hemstock	CAGPL	Revegetation
	7126			Trusty	CAGPL	Socio-economic comparison with alternates
	7143-53			Hemstock	CAGPL	Criteria for choice of prime route
	7154			Clark		Slopes compared to prime route
	7269-70			Thompson	CARC	Crossing through Arctic National Wildlife Range
53-A	7290-91	Aug. 13		Collins	CARC	Relation to early Alaska proposal
	7300-02			Leonard	CARC	Preference for prime route; Wildlife Range
	7321			Collins		Impact on Wildlife Range
54	7436-48	Aug. 14		Geist Banfield	CARC CAGPL	Ranking of routes and alternative corridors in terms of impact on caribou and IBP sites
	7482-7588			Weeden Parker	CARC CARC	Ecological features, routing and location; transportation facilities; pipeline facilities; endangering of wildlife and birds
55	7612-24	Aug. 15		Hughes	CARC	Terrain information; vegetation cover; areas of permafrost and ground ice; impact environmental; route assessment, facilities; engineering experience
	7639-45			Morlan	CARC	Archaeological sites; Klo-Kut was disturbed badly due construction of a winter road to Old Crow; poses more threat to known sites, than does mainline route impact on caribou and archaeological sites
	7652-67			Banfield		Impact on caribou, polar bears, water fowl breeding areas

ROUTE - INTERIOR (continued)

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C-22	2220-21	Aug.11	NW	Berger		Implications for Old Crow
C-23	2361	Aug.14	WH	Berger		Significance to Old Crow
	2376			Taylor	Citizen	Increase in mosquito population would be intolerable
68	10085	Sept.24	YK	Hushion	Foothills	Total length in miles
75	11050-53	Oct.20		Weeden	CARC	Establishment of a new corridor re: air and road transportation in Alaska; Arctic National Wildlife Range, Beaufort Sea Offshore Province; opening up wilderness areas
	11088			Weeden		Operating temperature; impact on surface layer
	11127-38			Weeden		Preferable route, given a choice as to which route to construct, Mainline, Prudhoe Bay Supply Line
76	11185-298			Weeden Parker	CARC	Gravel, water sources and availability
80	11852-70	Nov. 4		Hemstock	CAGPL	Environmental factors considered in route selection
82	12163-88	Nov. 6		Panel Environment	CAGPL	Comparison of vegetation with coastal route; borrow pits generally in bedrock; amount of borrow required; problems of slopes through Brooks and Richardson mountains; difficulties in revegetation
	12189-12205			Harlan McCart	CAGPL CAGPL	Ground water activities, transport from Porcupine river to line, snow roads, water use
83	12385	Nov.7		Marshall	CAGPL	Interior route remains as alternative
88A	13391-92	Nov. 17		McCart		Objections to route versus coastal route
89	13430-32	Nov. 18		Gunn	CAGPL	Ornithologically preferable to coastal route
	13456-57			Jakimchuk	CAGPL	Coastal route preferred over interior, mammal impact, caribou
	13467			Jakimchuk		Coastal versus interior route re Porcupine herd; interior preferred for mammals
	13488-92			Jakimchuk		Advantages, disadvantages to mammals
90	13590-91	Nov. 19		Dabbs	CAGPL	Caribou migration along right-of-way, damage to vegetation
92	13977-80	Nov. 21		McCart	CAGPL	Choice between interior and coastal routes if permanent project road eventually built; impact on fish, Marsh Fork
93	14082	Dec. 1		McCart		Canning River situation; preference for the coastal route
	14160-68			Gunn	CAGPL	Preference for the interior route with respect to birds; presence of raptors in the Canning River area; route changes
	14194-96			Gunn		Route selection; terms of research; impact on wildlife
94	14208-44	Dec. 2		Environmental Panel	CAGPL	Route preferences; birds; sensitive environmental areas
	14244			Jakimchuk	CAGPL	Caribou - potentially sensitive animals
	14311-12			Banfield Jakimchuk	CAGPL	Preference to the coastal route versus the interior route; migration patterns of caribou
	14319-20			Berger		Route selection; Government decision, impact;
	14338-59			Berger		Canning River area; summer construction; impact on mammals; access
95	14386-14451	Dec. 3		Environmental Panel	CAGPL	Research - input, approaches, environmental assessment; route selection; corridor concept
96	14571-73	Dec. 4		Jakimchuk		Ten disadvantages of the interior route versus the coastal route
	14583-14614			Hemstock Jakimchuk	CAGPL	Disadvantages of the interior route - spring and fall migration routes, snow depth and conditions; use of seismic lines, cleared areas, snow roads; construction activities and scheduling; Dempster; winter range

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96	14662	Dec. 4	YK	Veale	CYI	Impact on Porcupine herd; posting of a security bond by CAGPL
	14667-68			Jakimchuk	CAGPL	Preference for coastal route re contact with caribou herd
97	14803	Dec. 5		Gunn	CAGPL	Preference over coastal route
99	15055-104	Dec. 9		Environmental panel	CAGPL	Impact on wilderness values of area
101	15464-65	Dec.11		Zoltai	CARC	Potentially hazardous terrain for construction, soil, ground ice, slopes
	15469			Zoltai		Route preferable to coastal from terrain viewpoint
	15521-22			Zoltai		Terrain sensitivity
103	15744	Dec.15		Walker	CARC	Background information
	15747-54			Walker		Impact on overwintering fish, rehabilitation, domestic, commercial interests
	15768-87			Steigenberger	CARC	Actual, potential overwintering, spawning area sites identified, construction impact; recommendation re gravel, water removal
	15824-25			Stein Marshall	CARC CAGPL	Three Day Lake - Stewart Creek system, Rabbitskin, Liard, Martin rivers, in relation to Interior Route
104	15873-74	Dec.16		Walker		Fisheries research recommendations made to the Inquiry
	15888-89			Steigenberger		Piscivorous fish specie feeding habits
	15904-12			Stein Walker Steigenberger	CARC CARC	Potential damage to fish resource - commercial and domestic considerations
	15918-22			Walker	CARC	General summary of pipeline impact studies by Dr. McCart, Fisheries Service; time scale re further studies recommended
	15944-52			Steigenberger	CARC	Historical domestic fish catch, methods on Porcupine system, present significance
105	16002	Dec.17		Walker	CARC	Objectives of Fisheries Service program set for North Yukon
	16033-34			Marshall	CAGPL	Critical overwintering areas for fish
	16045-46			Marshall		Proximity to spawning grounds re Fishing Branch River
106	16203-40	Dec.18		Calef	CARC	Advantages and disadvantages re impact on caribou migratory routes, winter ranges, hunting, calving grounds, summer and autumn movements, interaction with repair operations; aesthetics of compressor stations; Arctic Wildlife Range and Canadian Arctic Wildlife Range; agreement on information, different conclusions; experiments re compressor station noise simulation
107	16286-11	Jan.12		Templeton McT-Cowan Bliss	EPB EPB EPB	EPB route preferences; contact with two groups of Dall Sheep - Mount Goodenough area, Canning River area, little choice between routes (Prime and Interior); a completed pipeline (Interior) unlikely to deter caribou migration; favour for Interior re rare birds; part of a large biome; Arctic National Wildlife Range; potential oil and gas reserves; use of the Dempster; fish; comparison of routes - in favour of Interior
	14315-17			Templeton		Environmental impact
	16399-406			McT-Cowan		Route preference; caribou/route interaction; wintering grounds
108	16426-47	Jan.13		McT-Cowan	EPB	Access and use of the Dempster; caribou wintering grounds; overflight altitudes, leg on the coast; watersheds of the Porcupine, Yukon Rivers- impact if an oil spill occurs; salmon runs
	16508-14			McT-Cowan		Route preference; consideration of the Dempster; game management; Dall Sheep; grizzly bears, fur-bearers
	16522-32			Templeton Berger McT-Cowan	EPB	Proximity to Old Crow, McPherson, Arctic Red; impact: land claims; route preferences; fish
109	16644	Jan.14		McT-Cowan Berger		North Slope more subject to aesthetic damage than the interior route

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110	16758-59	Jan. 15	YK	Bergerud	CARC	Deflection of herds by an elevated or buried pipeline; strength of fall and spring migrations
	16761			Bergerud		Aerial disturbance, during construction and maintenance; studies by Renewable Resources
	16767			Bergerud		Would alter the wolf/caribou relationships, use of winter roads by wolves
	16845-51			Calef	CARC	Calef, alternative route on the interior, location; Arctic National Wildlife Range, Old Crow Flats, Dempster Highway, caribou - disturbance; winter range
	16902-06			Lent	CARC	Route choices; implications for caribou; Canning River; facilities; access; Arctic National Wildlife Range
111	16908-30	Jan. 16		Carter	CAGPL	Porcupine herd movements, crossing route; disadvantages of route in Canning River area
	16931-36			Ryder Bergerud	MVPI	Interaction, Porcupine herd and route; as preferred route
	16956			Calef	CARC	Porcupine herd encountering route; new route south of Porcupine River
115	17603-04	Jan. 23	In	Berger		Recommendations by EPB witnesses re route
130	19783	Mar. 16	YK	Williams	CAGPL	Equal consideration given to coastal and interior routes
135	20438	Mar. 25		Gunn	CAGPL	Prefers route for less impact on birds
	20491-94			McCart	CAGPL	Interior versus coastal route re impact on fish; impact if oil pipeline follows
193	30205	Oct. 5		Templeton	EPB	Recommends use of interior over coastal route; route should follow Dempster Highway through Richardson Mountains
	30240-43			Hernandez Templeton	EPB	Routing along the Dempster Highway
	30255-62			Steeves Templeton Doyle	CAGPL EPB	Study by Bliss and Thompson - impact comparison of Interior, circum-Delta and cross-Delta routes; drawbacks in methodology of study
194	30369-71	Oct. 6		Hemstock	CAGPL	Impacts of oil pipeline construction access roads utilization year round
	30387			Hemstock		Route less desirable due to terrain presence of wildlife
202	31902	Nov. 17		Bayly	COPE/ITC	Inuvialuit support positions of IB/NWT, CYI
203	32098-100	Nov. 18		Anthony	CARC	Argument between coastal route and interior route, neither are environmentally acceptable
	32151-56			Veale	CYI	Old Crow opposed to Interior route; environmental damages, concerned about economic changes; social and cultural problems; violent reaction may result from native people
	32174-75			Veale		Not suitable for pipeline because of impact on people of Old Crow, caribou and Old Crow Flats

ROUTE - MAINLINE (RICHARD'S ISLAND - 60° LAT.N. PLUS PARSONS LAKE LATERAL)

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XV	1654-55	Mar. 11	YK	Dau	CAGPL	Selection, location, description
	1657			Dau		Location of route; location of facilities
XV111	2055-63	Mar. 14		Mollard Scott	CAGPL MVPI	Early selection - 1971; methodology
	2064 -74			Watson	CAGPL	Preliminary routes established; terrain typing, river crossings
	2105-10			Dau		Location of compressor stations
XXVII	3284	Apr. 10		Williams	CAGPL	Drill holes
XXIX	3574	Apr. 14		Williams		Potential buoyant areas
XXX	3764	Apr. 15		Purcell	CAGPL	Wrigley to 60th parallel
	3768-69			Gibbs	Foothills	Canadian section
XXXII	4023-28	Apr. 18		Purcell		48" supply line large volume without looping
XXXIII	4243-46	Apr. 21		Dau		Pipeline completed summer '78

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XXXIV	4528	Apr. 22	YK	O'Rourke	CAGPL	Equipment, material needed for pipeline
XXXV	4579	Apr. 23		Dau		42" alternative - reduce weld requirements
XXXVII	4735	May 13		Bell	NWT IB/MA	Alluvial meander plain, Fort Simpson to Fort Good Hope
	4787-90			O'Rourke	CAGPL	Arctic Red River, no barging on Mackenzie beyond that point
XXXVIII	4877	May 14		Berger		Blasting
42	5434-35	May 21		Hurd	CAGPL	Richards Island
43	5576	May 22		Williams		Looping, Travaillant Lake to 60th parallel
	5657			Horte	CAGPL	Travaillant Lake south, volume
	5687-97			Horte		Travaillant Lake south, capacity, Canadian gas
44	5832-33	May 23		Horte		Goes through areas that might produce gas in future
	5846-48			Bayly	COPE/ITC	Prime route, east side of Mackenzie River
	5855-57			Horte	CAGPL	Main transmission line; laterals to serve communities
	5863-71			Bayly	COPE/ITC	Change to cross delta route alternative
				Horte		
45	5887-90	May 24		Bayly		Change around Travaillant Lake Sensitive area
	5929-30			Horte		Socio-economic input
	5960-61			Horte		Close to coal deposits in southeastern B.C.
46	6070-71	June 2		Craik	EPB	Study environmental implications of alignment revisions
49	6523	June 5		Horte		Original prime route - change
	6546-75			Horte		Consideration of highway route along with pipeline route
C-I	32	Apr. 2	Aklavik	Bayly		Route around Parsons Lake
59	8336	Aug. 21	YK	Mirosh	Foothills	Foothill deviation from the CAGPL route around Travaillant Lake
	8372			Drew	Foothills	Prime route; Foothills studies
	8382-88			Gillespie	Foothills	Foothills line relocation between Fort Simpson and Mackenzie Highway
60	8522-23	Aug. 22		Bouckhout	Foothills	Smith Creek; adjustments in Foothills route
51	6749-6881	Aug. 11	WH	Panel	CAGPL	Proximity to Travaillant Lake; choice of CAGPL as causing the least environmental disruption; location of reserves; compressor stations - number and spacing; zones of continuous and discontinuous permafrost; construction spreads and scheduling, facilities - wharves and stockpile sites; bargins; operation and maintenance, environmental impact
52	6882-7056	Aug. 12		CAGPL Panel (Banfield)	CAGPL	Comparison with alternate routes
53	7079-7100	Aug. 13		Hemstock	CAGPL	Implications of Arctic International Wildlife Range
	7111			Hemstock		Revegetation on mainline compared to alternatives
	7126-39			Trusty	CAGPL	Socio-economic comparison with alternative corridors
	7142			Trusty		Rationalis for prime route
	7144-53			Hemstock	CAGPL	Impact of prime route
	7154			Clark	CAGPL	Slopes compared to interior route
	7246-58			Wah-Shee	NWT IB/MA	Position of Dene nation on routing
54	7433	Aug. 14		Geist	CARC	Calving grounds and nursery area of greater importance if a choice had to be made over the overwintering grounds; Fairbanks corridor and Mackenzie spur down to the Dempster
	7436-48			Geist		
				Banfield	CAGPL	Ranking of routes and alternative corridors in terms of impact on caribou and IBP sites
	7464-67			Weeden	CARC	Route location; state ownership
	7473-81			Weeden		Route location; migration area, nesting grounds; presence of the Porcupine Caribou herd, calving grounds; polar bear denning sites; availability of water, and borrow materials; impact environmental; river crossings; fish stocks; Arctic National Wildlife Range
55	7613-23	Aug. 15		Hughes	CARC	Terrain information, land forms; soil type, erosion and drainage; route assessment; facilities; engineering experience
	7641-45			Morlan	CARC	Comparison to corridors of Fort Yukon, Fairbanks, and Prudhoe re number and fragility of archaeological sites

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C-22	2261-70	Aug. 11	WH	Workman Hushion	CAGPL Foothills	Routing; gas to communities
C-23	2323-24	Aug. 14		A. Fekete	Citizen	Greater impacts of oil pipeline break
65	9635	Sept. 19	YK	Jarvis	Foothills	Snow harvesting - Richards Island
68	10132	Sept. 24		Dau	CAGPL	Manpower estimates of contractors after initial investigations
75	11051	Oct. 20		Weeden	CARC	Mainline route would open up new territory and not utilize existing road and transportation facilities
	11095			Weeden	CARC	Environmental concerns of the mainline vary depending on length of construction re: one or two years time
	11127-38			Weeden		Preferable route given a choice as to which route to construct, Interior, Prudhoe Bay Supply Line
76	11157-298	Oct. 21		Weeden		State of Alaska; decision re: suitability of pipeline across State lands; use of Alyeska corridor
	11179-298			Parker Weeden		Route selection; impact environmental; research and studies
77	11463-88	Oct. 22		Roed	CARC	Comparisons to the edge of the shield, east of the Franklins route re: research; facilities, costs, access, environmental issues
91	13851-92	Nov. 20		Dau	CAGPL	Pipeline length, diameter, cost, gas flow
	13893-98			Goudge Dau	MVPI	Looping, costs
93	14161-68	Dec. 1		Gunn	CAGPL	Studies; preference for interior route with regards to birds, presence of raptors in the Canning River area
	14193-96			Gunn		Route selection; repairs and impact on caribou, geese; terms of research
94	14206-44	Dec. 2		Environmental Panel	CAGPL	Preference for the old mainline route; concern for the Upper Delta region; birds - preference for interior route; research
	14336-59			Environmental Panel	CAGPL	Route preference; Dempster Highway - access
95	14386-14451	Dec. 3		Environmental Panel	CAGPL	Route selection, environmental assessment, research input; corridor concept
	14453-54			Environmental Panel	CAGPL	Route choice, alternative routes
96	14593-14644	Dec. 4		Jakimchuk	CAGPL	Route selection; advantages and disadvantages, caribou/construction interaction; access roads
	14689			McCart	CAGPL	Preference for the prime route with regards to fish
	14700-01			Gunn		Problems of raptors on the Prime route replicated on the Fairbanks corridor
97	14732	Dec. 5		Bell Jakimchuk	NWT IB/MA CAGPL	Avoidance of moose, Dall sheep winter ranges in route selection
	14773-78			Hemstock Gunn	CAGPL CAGPL	Multi-disciplinary approach to route selection
98	14920	Dec. 8		Scott	MVPI	Bluenose herd overwintering near line
	14964-67			Berger Marshall	CAGPL	Looping
99	15091	Dec. 9		Hemstock		Archaeological assessment
	15108			Bouckhout	Foothills	CAGPL route adopted as starting point
	15116-17			Kondla	Foothills	Foothills uses only mainline, less impact on vegetation
	15180-85			Environmental panel	Foothills	Environmental statement covers mainline, not laterals

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100	15215-16	Dec. 10	YK	Finney	Foothills	Future bird studies
	15273-83			Bouckhout Whitney	Foothills	Differences from CAGPL route; agreement with CAGPL's impact assessment on 400 common miles; assessment completion scheduling
101	15490-501	Dec.11		Zoltai	CARC	Amount of fenland, mileposts 260-300, 640 - 680; CAGPL's estimates
	15521-30			Zoltai		Terrain sensitivity; areas to be avoided or treated with special care; use of abandoned CNT line
103	15744	Dec.15		Walker	CARC	Background information
	15747-54			Walker		Water use re overwintering fish; species composition, rehabilitation; commercial, domestic fish demand
	15762-67			Steigenberger	CARC	Identification of critical open water, overwintering and aufeis fish sites
	15773-88			Steigenberger		Northern Yukon route - fisheries impact; recommendations re storage and transport of refined petroleum, gravel removal, water utilization, post-construction monitoring
104	15872-74	Dec.16		Walker		Adequacy of fisheries data compiled
	15904-12			Stein Walker Steigenberger	CARC	Potential damage to fish resource - commercial, domestic considerations
105	16002			Walker		Objectives of Fisheries Services program set for north Yukon
	16030-34	Dec.17		Marshall	CAGPL	Prime route re least overall impact on aquatic resources; site specific identification re critical overwintering fish areas
	16039-40			Marshall		Discharges data for springs in Northern Yukon; water availability
	16143			Lent	CARC	Presence of caribou expected during compressor station construction
106	16169	Dec.18		Lent		Muskoxen during construction phase re crossing barriers
	16181-82			Lent		Arctic Gas Prime Route - environmentally unacceptable, reasons
	16207			Berger		Old Prime Route re Winter ranges
107	16286-11	Jan.11		Templeton McT-Cowan	EPB EPB	EPB route preferences; Dall Sheep - little choice between routes (Prime or Interior); exposure to caribou during sensitive periods; fish - favours Prime; transportation of materials; comparison of routes
	16315-17			Templeton Bayly	COPE/ITC	Route changes, environmental impact
	16368			McT-Cowan		Given suitable reserves, may require a road across the North Slope, if the Prime route were chosen
108	16428-47	Jan.13		McT-Cowan		Route preferences - Interior re impact on caribou; access to previously undisturbed areas
	16526-28			Berger Carter	CAGPL	Social impact; route preferences - biological reasons
	16534-36			Scott Berger Marshall	MVPI CAGPL	Looping of the mainline; timing of such a looping; Horte's testimony
109	16598-605	Jan.14		Templeton Bliss Thomson	EPB EPB	Adequacies of information; impact on the frequency of aircraft use; spills; permafrost; pipeline design
	16657			Berger		Construction of the Prime route, environmental trade-offs
C-36	3505-06	Jan.29	In	Workman	CAGPL	Route description including cross-delta amendment; measures to reduce environmental disturbance along route
C-37	3567	Feb. 10		Workman		Description of CAGPL proposed pipeline route
116	17677	Jan.24		Rempel	GPC-D-I	Environmental protection courses for Taglu development

ROUTE - MAINLINE (RICHARDS ISLAND - 60° LAT. N. PLUS PARSONS LAKE LATERAL) (continued)

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117	17778-79	Jan.26	IN	Wopnford Rempel	GPC-D-S GPC-D-I	Taglu and Niglintgak, archaeological studies
	17783			Rempel		Taglu, flight pathway
	17891			Bayly	COPE/ITC	Taglu, Niglintgak employees from surrounding communities
118	17996	Jan.27		Czaja	GPC-D-S	Niglintgak, size of reserve, size of plant
18068	18068			Czaja		Reasons for building at Niglintgak
119	18107	Jan.28		Shearer	COPE	Proposed permanent facilities at Parsons Lake, Taglu and Niglintgak
121	18458-61	Feb.10		Barry	COPE/ITC	Taglu oil well study - effects of oil well drilling on wildlife
122	18488	Feb.11		Carter	CAGPL	Filing of CAGPL application amendments - cross-Delta routing, Niglintgak line, Parsons Lake lateral, compressor station CD-08, satellite base communication system
	18577			Barry		Impact of Delta compressor station noise on birds; definition of Barry route proposal
	18719-21			Barry		Movement of gas plants off Delta
125	19056-58	Feb.14		Lewis	COPE/ITC	Position of Delta driftwood line related to Mainline, Taglu, Niglintgak
126	19072 19191-200	Feb.16		Lewis Snow	COPE/ITC	Taglu, Niglintgak - underlying permafrost depths Taglu - Imperial to supply data on fishery, hydrology associated with development, use of toxic chemicals, sewage treatment at plant
130	19743-44	Mar.16	YK	Williams	CAGPL	Routing information; change to Parsons Lake supply line, addition of Niglintgak supply line
132	20146-48	Mar.18		Williams Purcell	CAGPL CAGPL	Relocation of Parsons Lake lateral; compressor station MD-01
133	20135-37	Mar.23		Rowe	CAGPL	Impact assessments of Parsons Lake and Niglintgak supply lines
135	20500-13	Mar.25		McCart Jakimchuk Gunn	CAGPL CAGPL CAGPL	Impact of Niglintgak supply lateral on fish, mammals, birds
	20518-19			Hemstock Banfield	CAGPL CAGPL	Above versus below-ground gathering lines; Thunder River crossing site change
148	22613-14	Apr.29		Nahanni	NWT IB/MA	Construction sites conflicting with hunting and trapping activities, such as trails, travel routes, traplines
194	30326-30	Oct. 6		Templeton	EPB	Transport of offshore gas, oil reserves from testary basin to Taglu
	30408-10			Hemstock	CAGPL	Coastal route preferred due to location of potential offshore reserves in Alaska
203	32178-85	Nov. 18		Veale	CYI	Opposed to prime route; impact on caribou, relationship with people of Old Crow; prime route will prejudice land claims; recommendations

ROUTE - PRUDHOE BAY SUPPLY LINE

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XV	1723	Mar.11	YK	Dau	CAGPL	Relocation - environmental factors - birds, caribou
XVI	1774-78	Mar.12		Dau Gibbs	Foothills	Comparison with Interior Route
XV111	2023-25	Mar.14		Williams Bayly	CAGPL COPE/ITC	Traplines along route
	2043-45			Dau Bayly		Potential future gas sources; a factor in route selection
	2097-02			Dau Scott	MVPI	Caribou - bird considerations in selecting route; lack of "priorities".
	2122-24			Berger		Cost comparison with interior route
XIX A	2280-81	Mar.17		Morgenstern	CAGPL	Seismic risk, Richardson Mountains area
	2284-86			Clark	CAGPL	Interior vs. coastal route - comparison
XXII	2532-36	Mar.20		Clark		Slope instability - greater than 3°
XXIV	2828-31	Apr.7		Hardy Williams	CAGPL	Arctic coastal braided streams - blasting

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XXVII	3284	Apr.10	YK			Drill holes, Yukon coast
XXVIII	3436-47	Apr.11		Scott	MVPI	Yukon North Slope
	3556			Scott		Slope stability
XXX	3730	Apr.15		Purcell	CAGPL	Compressor station, Travaillant Lake
	3768			Purcell		Alaska section design, supply points
XXXII	4023-26	Apr.18		Purcell		48" supply line has large volume without looping
	4053-56			Purcell		Availability and nature of gas
	4056-59			Reid	CAGPL	Atmospheric corrosion - protection same as for mainline
	4158			Scott		Report defines some route areas as prone to liquification
XXXIII	4250-51	Apr. 21		Dau		Supplies by rail and truck, then barge
	4272-73			O'Rourke	CAGPL	Alaskan side - route alternative
XXXIV	4394	Apr. 22		Dau		Coastal route, Yukon communities
	4419-22			Dau	CAGPL	River crossing, Mackenzie River
	4429			Dau		Richardson Mountains
	4433-35			Dau		Arctic coast
	4438			Dau		Yukon coastal route
	4451			Williams	CAGPL	Coastal route in northern Yukon
	4467-68			Veale	CYI	Coastal slope of Yukon
	4473			Dau		Arctic coast, flight paths
	4483-87			Dau		Testing methods of obtaining snow, coastal Yukon Territory
	4529-33			O'Rourke	CAGPL	Equipment, material needed
XXXV	4550-55	Apr. 23		Dau		Spread B in Alaska
	4572			Dau		Automatic weld testing for that climate
	4579			Dau		42" alternative - reduce weld requirements
	4592			O'Rourke		Tonnage hauled for last construction season
XXXVII	4713-15	May 13		O'Rourke		Coastal route, Y.T., delivery of pipeline materials
	4763-65			Dau		Yukon coastal plain, scheduling, rate of work
	4776-80			Williams		Construction camps, accommodation for extra personnel
XXXVIII	4877	May 14		Berger		Blasting
XXXIX	5064-65	May 15		Williams		Snow accumulation and manufacture for roads
41	5333	May 20		Hurd	CAGPL	Caribou migration, calving time
	5350-65			Lucas	CARC	An example, line break on North Slope
42	5568	May 21		Genest	CAGPL	Delivering Mackenzie Delta gas while still building supply line
43	5623-28	May 22		Horte	CAGPL	Movement of gas from Alaska-Yukon border
	5653-61			Horte Gibbs		Supply and demand projections
	5679			Berger	Foothills	Likelihood of looping
	5693-97			Horte	CAGPL	Daily volumes
44	5829-33	May 23		Bayly	COPE/ITC	Selection of route; availability of Mackenzie Delta gas
45	5950-56	May 24		Horte		Prudhoe Bay reservoir; types of gas
	5984-85			Scott	MVPI	Travaillant Lake route change
46	6052	June 2		Templeton	EPB	Studying impact by region
	6095			Templeton		Have studied this route
	6106			Adam	EPB	Probable regional impact matrix
47	6152	June 3		Wilimovsky	EPB	Preferable route with regard to fish species
	6225-26			McT-Cowan	EPB	Parallel to caribou migration but close to calving
49	6533-45	June 5		Horte		Looping if demand and potential increase
	6548-49			Horte		Government aware of general route
	6574-75			Horte		Route decided before Pipeline Guidelines issued
50	6669-77			Horte		Timing of construction and looping, new reserves
C-I	44-45	Apr.2	Aklavik	Hemstock	CAGPL	Route location
C-11	1036	July 8	F. McP.	Workman	CAGPL	Location of route, vicinity to Fort McPherson

ROUTE - PRUDHOE BAY SUPPLY LINE (continued)

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56	7812	Aug. 18	YK	Horte		Need for looping; CAGSL and N.E.S. studies
	7839			Horte		Selection of location for route supply line: environmental aspects
	7926-28			Blair Berger	Foothills	Possibility of Foothills carrying Alaskan gas with a 42 inch pipe; need for looping; not all Alaskan gas could be carried with a 42 inch pipe; ability to raise capital in Canada to service U.S. gas
58	8176-77	Aug. 20		Blair		Foothills intentions as to carry Alaskan gas directly; need for government instruction
	8199-8200			Blair	Foothills	Foothills carry of Alaskan gas and areas of environmental interest re: breeding and nesting sites; soil sensitive areas
	8233-36			Blair		Alaskan gas movement; Foothills view of government involvement
	8239-40			Blair		Foothills discussions with communities; Delta; interior and coastal routes; possible development
51	6747-6881	Aug. 11	WH	Panel	CAGPL	Route location, North Slope reserves; compressor stations - number and spacing, construction spreads and scheduling; facilities - wharves and stockpile sites, barging and movement of materials and equipment; operation and maintenance; environmental impact
52	6885-88	Aug. 12		Dau	CAGPL	Extent of road use
	6899-6900			Banfield	CAGPL	Prospects of looping
	6926-27			Clark	CAGPL	Geotechnical comparison
53	7081-7100	Aug. 13		Williams	CAGPL	Need for pads and access roads
	7153			Hemstock	CAGPL	Coastal transport to Canada of Alaska oil for U.S.
	7190-92			Joe	CYI	Opposition to route near Old Crow before or after land claims
	7269-70			Thompson	CARC	Crossing of proposed Arctic National Wildlife Range
54	7431-33	Aug. 14		Geist	CARC	Impact on caribou less if the Prudhoe Bay Supply Line built rather than the Fairbanks corridor and Mackenzie spur down to the Dempster
	7438-48			Geist Banfield		Impact on caribou
	7461-7588			Weeden Parker	CARC CARC	Alaskan Arctic Gas Pipeline Company system
55	7612-24	Aug. 15		Hughes	CARC	Terrain information, permafrost, ground ice, land forms, hydrology re influence route assessment: engineering experiences
	7642-45			Morlan	CARC	Route; Alaskan Highway already has destroyed archaeological sites; further study warranted; to pass through areas previously glaciated, thus removing pre-glacier evidence
C-21	2121	Aug. 9	NW	Carter	CAGPL	Extra cost of coastal line
C-22	2221	Aug. 11	WH	Berger		Part of CAGPL's prime route proposal
	2251-53			Workman T. Nairn	CAGPL Citizen	Fire and building regulations in camps
	2286-87			A. Netherton	Citizen	Comparison with American-oriented Alaska Highway
C-23	2310	Aug. 14		R. McKaymie	Citizen	Minimal effect
	2317-18			A. Fekete	Citizen	Crossing of Mackenzie River; impact on waterfowl
	2360-61			Berger		Significance to Old Crow, caribou
	2368			Berger		Inquiry to study impacts
63	9072-82	Sept. 17	YK	Berger		Consideration of the cross delta alternative at Inuvik in January 1976
68	10044	Sept. 24		Hushion	Foothills	Diminished requirements of Foothills compared to CAGPL borrow & land use in construction & operation of the route across the Yukon
	10085			Hushion		Calculation of 850 miles involved in Prudhoe Bay supply line
72	10754-55	Oct. 15		Marshall Templeton	CAGPL NEB	Use of culverts through a frost bulb; river crossings especially North Slope area
73	10964	Oct. 16		Morgenstern	CAGPL	Ice core topography of North Slope of Alaska; C sub V; studies

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75	11034	Oct.20	YK	Parker	CARC	Test at Fairbanks site of thin work pads
76	11169-70	Oct.21		Weeden	CARC	North Slope of Alaska Arctic Gas; hunting whaling and DEW line activities; Alaskan Native Claims Settlement Act; damage to natural habitat
	11179-295			Weeden Parker		North Slope, worst case prediction; impact on wildlife, waterfowl
79	11682-83	Nov. 3		Minning	CAGPL	Amount of borrow required
80	11840-43	Nov. 4		Minning		Borrow operations on active flood plains along route
	11851-70			Hemstock	CAGPL	Environmental considerations in selection of route
	12071-73			Minning		Gravel supplies along coastal route
82	12163-88	Nov. 6		Panel	CAGPL	Compared with interior route in terms of vegetation, source of gravel, borrow requirements, difficulties of revegetation
	12192-12205			Williams	CAGPL	Water requirements
83	12385	Nov.7		Scott Marshall	MVPI CAGPL	Route remains as alternative, superceded as prime route
	12429-38			Scott Environmental Panel	CAGPL	Gravel mining, spread C, scheduling on active flood plain, environmental considerations
88A	13390	Nov. 17		Berger McCart	CAGPL	Aquatically preferable to interior route
89	13456-57	Nov. 18		Jakimchuk	CAGPL	Recommendation of route re impact on mammals, particularly caribou
	13487-89			Jakimchuk	CAGPL	Mammal impact, advantages, disadvantages of route; effect on caribou
90	13590-99	Nov. 19		Dabbs Hemstock Jakimchuk Banfield	CAGPL CAGPL CAGPL	Damage to revegetated areas by caribou, trampling, eating
	13664			Berger		Guidelines allow for oil pipeline, same route
91	13852- 65	Nov. 20		Dau	CAGPL	Pipeline length, diameter, costs, gas flow
	13865-92			Dau		Mileage, gas flow, pipe size, capital costs
93	14082	Dec. 1		McCart	CAGPL	Preference for coastal route over the interior route
	14106-07			Gunn	CAGPL	Distance of route to peregrine falcon nests; location of compressor stations, airstrips to nests; Norman Range
	14133-34			Gunn		Waterbodies, waterfowl habitats on the North Slope
	14141-43			Gunn		Experiments; long term effects assessed re bird populations and impact on the North Slope
	14160-96			Gunn		Studies of the coastal and interior routes; preference for interior route with regards to birds; staging area for snow geese
94	14244	Dec. 2		Jakimchuk		Caribou - potentially sensitive animal
	14291-95			Berger		North Slope of Alaska - gas and oil reserves; economies of scale; impact on route area; Foothills versus Arctic Gas proposals; environmental assessment
	14311-12			Banfield Jakimchuk	CAGPL CAGPL	Preference of coastal route versus the interior route; caribou migration patterns; interference
	14319-20			Berger		Advantages; carry of Alaskan gas
	14337-40			Environmental Panel	CAGPL	Possible construction of a road along the North Slope pipeline route; impacts of such access
95	14383-84	Dec. 3		Marshall	CAGPL	Transportation of North Slope gas
	14427-31			Banfield		Access along the North Slope; impact of an all-weather road; environmental considerations,work stoppages
96	14538-47	Dec. 4		Banfield Jakimchuk		Coastal route - interaction with a herd of musk-oxen; reports; population and dynamics of the herd; impact; Porcupine Caribou Herd; protection of musk-oxen

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96	14570-73	Dec. 4	YK	Jakimchuk	CAGPL	Ten disadvantages of the interior route versus the coastal route re caribou
	14586-14644			Jakimchuk		Advantages of the coastal route over the interior and alternative routes re caribou migration, calving; construction scheduling, interaction with construction activity
	14667-68			Jakimchuk		Preference for coastal route
97	14732	Dec. 5		Jakimchuk		Avoidance of moose, Dall sheep, winter ranges in route location
	14794			Gunn	CAGPL	Restricted access periods, Yukon coastal areas, North Slope willow thickets
98	14871-84	Dec. 8		Gunn	CAGPL	Impact on birds, compressor stations, airfields, gravel mining, site locations; compressor stations at old DEW line sites
	14955			Jakimchuk	CAGPL	Impact on Porcupine herd
	14964-67			Berger Marshall	CAGPL	Looping
99	15091	Dec. 9		Hemstock	CAGPL	Archaeological assessment
	15119			Hayden	Foothills	Foothills won't use route
	15127			Finney	Foothills	Foothills won't use route
	15131			Whitney	Foothills	Foothills won't use route
100	15186	Dec. 10		Bouckhout	Foothills	No studies to be done
101	15469	Dec. 11		Zoltai	CARC	Crosses ice-rich terrain, active alluvial fans, high energy streams
	15510			Berger		Inclusion of cross-delta route in guideline north coast corridor
102	15563-64	Dec. 12		Peterson	CARC	Route would conflict with proposed IBP sites Firth River, Old Crow Flats
103	15755-56	Dec. 15		Steigenberger	CARC	Report, summary - impact on aquatic organisms
	15773-88			Steigenberger		Impact on fisheries; recommendations re: storage and transport of refined petroleum, gravel removal, water utilization, post construction monitoring
104	15888-89	Dec. 16		Steigenberger		Piscivorous fish species feeding habits
	15904-12			Stein Walker Steigenberger	CARC CARC	Potential damage to fish resource - commercial, domestic considerations
	15918-22			Walker	CARC	General summary of pipeline impact studies by Dr. McCart, Fisheries Studies; time scale re: further studies recommended
	15968-69			Walker		Impact of permanent road on the Yukon North Slope
105	16032	Dec. 17		Marshall	CAGPL	Supply line joined to supply line from Mackenzie Delta to form Fairbanks corridor
106	16203-40	Dec. 18		Calef	CARC	Advantages and disadvantages re: impact on caribou migratory routes, winter ranges, hunting, calving grounds, summer and autumn movements, interaction with repair operations; aesthetics of compressor station; Arctic Wildlife Range and Canadian Arctic Wildlife Range; agreement on information, different conclusions; experiments re: compressor station noise simulation
107	16296	Jan. 12		McT-Cowan	EPB	Unique coastal biome
	16300-01			McT-Cowan		Coastal Route; great potential damage, due to spills; climatic factors - fogs on the coast
	16399-406			McT-Cowan		Route preference; Coastal Route; caribou calving grounds; wintering along the coast
108	16430-47	Jan. 13		McT-Cowan		Coastal Route - impact on caribou; overflight altitudes, fog on the coast; North Slope unique biome, undisturbed area; immediate impact of oil spills; oil exploration
	16508-14			McT-Cowan		Route preference, consideration of caribou aggregation, Dall Sheep and Grizzly bear ranges, fur bearing

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108	16523-28	Jan. 13	YK	Gourdeau Berger McT-Cowan	EPB EPB	Coastal Route; proximity to native villages, route preferences
	16534-36			Marshall Berger Scott	CAGPL MVPI	Route location, looping
	16542			Berger		Looping of the Prudhoe Bay leg
109	16644	Jan. 14		McT-Cowan Berger	EPB	North Slope would be more suspect to aesthetic damage than would the Interior Route; revegetation
	16663-65			Templeton	EPB	Areas of disturbance, activity; tradeoff environmental areas
110	16757-59	Jan. 15		Bergerud	CARC	Reflection by pipeline - buried, elevated; Camden Bay-post-calving aggregation
	16845-52			Calef	CARC	Route preference interior versus the coastal
	16866-67			Lent	CARC	Calving grounds; potential damage is greater if the Coastal Route is built
	16898-99			Lent		Scheduling of construction on the North Slope; mitigative measures
	16902-06			Lent		Coastal Route; route choices
111	16918-22	Jan. 16		Carter Calef	CAGPL	Porcupine herd position in August; route goes through some winter ranges
	16930			Calef		Impact on caribou, interior versus coastal route
	16931-36			Bergerud		Interaction with Porcupine herd compared to Interior Route; avoiding insects
C-30	2897	Oct. 6	PP	Carter		CAGPL route proposal
115	17603-04	Jan. 23	In	Berger		Recommendations by EPB witnesses re route
121	18454-61	Feb. 10		Barry	COPE/ITC	Utilization of Dew Line sites along Route to minimize environmental disturbance; Delta route related to bird concentrations; Taglu oil well drilling site - impact of noise from equipment, aircraft on bird nesting habits
122	18488	Feb. 11		Carter		Filing of CAGPL application amendments - cross-Delta routing, Niglintgak line, Parsons Lake lateral, compressor station CD-08, satellite base communication system
	18580-87			Barry	COPE/ITC	Impact of compressor station, aircraft noises on birds; definition of Barry route proposal
	18619-22			Sergeant	COPE/ITC	Impact of Delta construction activity on whales
	18695-97			Stein	COPE/ITC	Impact of cross-Delta pipeline construction on fish
	18716-18			Stuting		Impact of route on polar bear maternity dens
124	18913-14	Feb. 13		Lewis	COPE/ITC	Delta thaw consolidation - pipeline stability
125	19056-58	Feb. 14		Lewis		Position of Delta driftwood line related to proposed route
130	19741-44	Mar. 16	YK	Williams	CAGPL	Route same as old prime route west of point near milepost 290; relocation of compressor station CD-08
	19752-53			Purcell	CAGPL	Gas capacity of line with all stations installed; Compressor sites not changed because of cross-Delta route proposal
	19783			Williams		Equal consideration given to coastal and interior routes
	19905-07	Mar. 17		Williams		Water supply on North Slope
	19925			Berger		Construction scheduling
	19950-51			Williams		Remedial action if construction delayed; cost of summer construction
	19969-70			Berger		Winter versus summer construction
	19977			Purcell		Effect on gas flow of moving compressor station CD-08, plans to remove flow restriction
	19994-96			Williams		Barry route versus circum-Delta route re costs, etc.
..	20113-26			Purcell		Effects on gas flow of moving compressor station CD-08

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THIS HEADING NOW INCORPORATES REFERENCES TO THE SECTION OF THE LINE FROM TRAVAILLANT LAKE TO THE JUNCTION WITH THE CROSS DELTA ROUTE ONLY. I.E. THE "CIRCUMDELTA" SECTION OF THE ROUTE.						
135	20438-39 20491-94	Mar.25	YK	Gunn McCart	CAGPL CAGPL	Circum-Delta route preferred for impact on birds Interior versus coastal route, impact on fish; impact if oil pipeline follows
136	20607-23	Mar.26		Environmental panel	CAGPL	Feasibility of coastal route using DEW line sites as compressor stations
C-47	4621-24	Mar.13	ARR	W. Simon	Citizen	Importance of Travaillant Lake to people of Arctic Red River; suggestion to move line further east
193	30255-62	Oct.5	YK	Steeves Templeton Doyle	CAGPL EPB EPB	Study by Bliss, Thompson - impact comparison of Interior, cross-Delta, circum-Delta routes; drawbacks in methodology of study
194	30326-30 30404-07	Oct. 6		Templeton Hemstock	CAGPL	Transport of offshore gas, oil reserves through Tagluu instead of coastal route Yukon corridor - utilization - oil, gas pipelines, highway
201	31763-78 31825-29	Nov. 16		Marshall Gibbs	CAGPL Foothills	Relative advantages, disadvantages of cross-delta, circum-delta routes CAGPL construction plan based on equipment not yet produced on tested ability to complete project on schedule questionable
202	31901	Nov. 17		Bayly	COPE/ITC	Unacceptable to Inuvialuit
203	32095-100	Nov. 18		Anthony	CARC	Significance of coastal area to caribou, possible impact of Coastal Route on caribou; fear for survival of caribou if Coastal Route adopted

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XV	1648-52	Mar.11	YK	Dau	CAGPL	Background to route selection; feasibility studies; companies involved
	1665-76			Dau		Factors considered; methodology; terrain typing
	1676-05			Mollard	CAGPL	Terrain typing; aerial photography interpretation; terrain analysis
	1705-09			Dau		Use of terrain typing; environmental and socio-economic considerations
	1709-11			Watson	CAGPL	Environmental considerations
	1711-17			Dau		Terrain considerations; environmental considerations
	1718-22			Anthony	CARC	Fort Simpson and cross-Delta relocations
	1723-24			Dau		Minor relocations; environmentally sensitive areas
	1724-27			Williams	CAGPL	Fort Simpson relocation
	1727-36			Dau		PAAG's concern re: route selection, engineering problems
	1737-38			Dau		Route costing; feasibility of route selection
XVI	1754-78	Mar.12		Gibbs Dau	Foothills	Potential American influence; technical feasibility; relationship with potential markets; (1770) Interior vs. Coastal route economic factors; U.S. Federal Power Commission
	1778-07			Dau		Slope stability, river crossings; comparison with alternative systems and corridors
	1815-29			Anthony Dau		Decision-making process; comparison with oil pipeline; comparison with alternative routes and corridors
	1829-39			Mollard		Use of terrain typing
	1840-60			Dau		Environmentally sensitive areas; terrain considerations, other transportation systems considerations; consultation with representatives of the Federal Government; Guidelines, public interest.
	1860-74			Dau		Relocations, final design stage; Fort Simpson relocation; Guidelines for Northern Pipelines
XVII	1886-88 1888-9)	Mar.13		Dau Williams		Alternative transportation corridors Government input into route selection

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XVII	1900-46	Mar.13	YK	Dau Bell	CAGPL NWT IB/MA	Socio-economic and environmental factors involved; Communities; land use; trap lines
	1946-2000			Bayly Dau Williams	COPE/ITC CAGPL	Socio-economic factors involved; proximity to settlements; rivers; availability of borrow material; Travaillant Lake sensitive area; availability of water Potential for pipeline failure; environmental factors
	2004-08			Anthony	CARC	Government input
XVIII	2011-37	Mar.14		Bayly Dau		Climatic factors affecting selection; discussion of word "prime"; hunting, trapping and fishing areas; technical reasons for cross delta route change; consideration of archaeological and traditional use areas
	2037-46			Bayly Dau		Pipeline looping-land requirements; Mackenzie Highway alignment; future gas sources; trap lines
	2046-75			Scott Dau Watson	MVPI CAGPL	Changes made at final design stage; terrain typing and use in route selection; methodology of establishing preliminary and then prime routes; river and water body crossings; various terrain types crossed; problem solving by engineering and design
	2075-2120			Dau		Decision making; socio-economic input into route : changes; caribou - bird factors re: coastal route; location of compressor stations; proximity of line and stations to communities
	2122-26			Berger Dau		Project costs, prime vs. interior route; cost factors in route selection; dual pipe river crossings
XIXA	2234-40	Mar.17		Clark	CAGPL	Geotechnical & terrain information; slope stability; river crossings; environmental concerns; other constraints
	2262-63			Clark		Pipeline stability, safety; problem areas
XX	2351-5			Morgenstern	CAGPL	Avoidance of multiple retrogressive flow slides, Mountain River; inspection of route for potential instability
	2403-05			Clark		River crossings, importance in route selection; proximity to highway; slope failure
XXIII	2719-24	Mar.21		Clark Berger	CAGPL	Movement of route due to environmentally sensitive areas
	2739-42			Hardy	CAGPL	Pointed Mountain Pipeline, environmental requirements, major river crossings
XXIV-A	2883-84	Apr.7		Clark		Social and environmental impact minimized by route selection
XXV	2950-64	Apr.8		Genest	CAGPL	Environmental and geotechnical concerns, avoid conflict with Mackenzie Highway
XXVII	3287-89	Apr.10		Williams	CAGPL	Re: research by Northwest Project, Mackenzie Valley Oil Pipeline
	3390			Slusarchuk	CAGPL	Greenhouse effect, along the route
XXVIII	3558-59	Apr.11		Scott Morgenstern	MVPI CAGPL	Slope failure, re-location
XXX	3769-70	Apr.15		Purcell Gibbs	CAGPL Foothills	Design, economic factors
XXXIV	4375	Apr. 22		Marshall	CAGPL	Master Index Map Gas Pipeline Route, Alignment and Data sheets
	4442-45			Dau	CAGPL	Gemini North
XXXVII	4707-12	May 13		Genest	CAGPL	Route changes due to environmentally sensitive areas
XXXVIII	4955	May 14		Goudge	MVPI	Location survey for pipeline ROW
43	5579-81	May 22		Horte	CAGPL	Selection of route, Mackenzie Valley
44	5740-47	May 23		Bell	NWT IB/MA	Helicopter - supported pilot pipeline route location survey
	5789-5810			Bell		Socio-economic factors
	5821-26			Bell		East vs. west side of Mackenzie River
	5829-43			Bayly	COPE/ITC	Technological pipeline route factors
	5843			Bayly		Social, economic conditions; prime route
	5863-67			Bayly	COPE/ITC	Cross delta route change, factors involved
45	5881-82	May 24		Genest	CAGPL	Land use application for location survey near Fort Good Hope
	5926-30			Bayly		Inputs on environmental, economic, social aspects
	5960-61			Horte	CAGPL	Coal deposits in southeastern B.C.
	5978-90			Horte		Process of route selection

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47	6191	June 3	YK	McT-Cowan	EPB	Reduce conflicts by proper selection re: mammals
49	6537-75	June 5		Horte	CAGPL	Economic and environmental considerations
50	6637-43	June 6		Horte		Influence of highway and communications systems
	6682-92			Horte		Major re-routing not likely to be considered; consider supply to communities
	6740-43			Horte		Environmental modifications - how to measure competing interests
C-II	98-103	Apr. 3	Aklavik	Gordon	Citizen	Native people sometimes unaware of routes
C-4	181-184	May 28	Hay River	Williams	CAGPL	Presentation of routes of pipeline
C-6	568-573			Berger		Pipeline routes, benefit to the natives
C-8	717-20	June 25	F.F.	P.Tatti	Citizen	Question on decision-making; factors involved
C-11	993-	July 8	F. McP.	M. Pascal	Citizen	Should be moved from delta
	1033-36			Elwood	Foothills	Foothills; Travaillant Lake sensitive area
C-13	1193	July 10		J. Kay	Citizen	People in Fort McPherson against crossing the delta
	1205			W. McDonald	Citizen	View that river crossing too close to Fort McPherson
	1261			J. Charlie	Citizen	Route too close to Fort McPherson
	1265-67			A. Stewart	Citizen	Interference with wildlife
C-14	1282-83	July 11	Old Crow	J. Tizya	Citizen	Pipeline to be too close to Old Crow
C-16	1479	July 13	O.C.	R. Bruce	Citizen	Do not want pipeline near Old Crow
	1523-24			P. Benjamin	Citizen	Caribou migration, bird nesting areas along Arctic coast
	1604-06			B. Sharpe	Citizen	Interior versus coastal route; effect on Old Crow
56	7835-47	Aug. 18	YK	Horte	CAGPL	Consideration of trap lines; bird and wildlife reserves; national parks
	7914-20			Blair	Foothills	Foothills route contrasted to CAGPL's route; slide presentation; connecting pipe facilities and gas pipeline systems
	7937			Blair		Foothills absence in the Travaillant Lake area; delivery of gas to communities
57	8013-14	Aug. 19		Blair		Alberta routing of transmission lines
58	8163-64	Aug. 20		Blair		Foothills intentions to create contingency plans should new areas of Pipeline Development emerge
	8181-83			Blair		Foothills similarity to CAGPL, Foothills did not review other routes; comparison to other routes
	8198-8203			Blair		Foothills to avoid environmental and sensitive areas; special studies
	8216-18			Blair		Foothills input into environmental and economic studies re: route selection
	8237-38			Blair		Socio-economic factors effecting location of pipeline as seen by Foothills
59	8334-35	Aug. 21		Mirosh	Foothills	Foothills route based on CAGPL route; data; deviation from CAGPL route around Travaillant Lake
	8342-47			Fawcett	Foothills	Foothills consideration of other transportation systems, right-of-way, restrictive terrain features, environmentally sensitive terrain
	8356-58			Bouckhout	Foothills	Foothills environmental input; community service laterals; field studies; multi-disciplinary approach
	8362-75			Drew	Foothills	Foothills studies, terrain typing, terrain features and sensitivity, topography, bedrock, drillholes and sites, terrain information
	8378-88			Gillespie	Foothills	Foothills past site selection and ground checks; route objectives
	8391-93			Mirosh	Foothills	Foothills proposed alternate route for Richard's Island; route changes and studies
	8425-40			Gillespie		Foothills, consultation with authorities; drilling in unstable and sensitive areas; programs; route difference re: CAGPL route
	8442-56			Drew		Foothills information sources for route selectivity and scheduling

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59	8467-70	Aug. 21	YK	Mirosh	Foothills	Foothills - time of route selection; basis of selection; office studies; in-house discussions
	8473-75			Fawcett	Foothills	Foothills avoidance of trapping areas re: Travailant Lake, mile post area 140-170
	8478-80			Fawcett		Foothills use of existing transportation facilities; communities of Inuvik, Tuktoyaktuk; consultation with communities re: policy matters
	8480-81			Mirosh		Foothills commencement of route selection; professional and engineering aspects; team aspects
60	8485-95	Aug. 22		Fawcett		Foothills sequence of the process by which the route was selected; materials used
	8560-68			Gillespie	Foothills	Test and studies by Foothills; test hole data and information; soil analysis; river crossing sites to be designed
	8569			Fawcett		Community supply laterals; process of route selection
51	6747-49	Aug. 11	WH	Berger		All routes discussed, mainline, alternative routes, interior, Prudhoe Bay Supply Line
	6776-85			Hemstock	CAGPL	Studies as to terrain and environmental factors used in selection of routes; attention given to Travailant Lake, Arctic National Wildlife Reserve
	6804-10			Hemstock		Terrain suitability; impact on animal, bird and fish populations; drainage
52	6885-6890	Aug. 12		Dau Banfield	CAGPL CAGPL	Reasons for CAGPL decision for prime route
	7022-56			Dau		Factors influencing CAGPL selection
53	7065-77	Aug. 13		Trusty	CAGPL	Socio-economic considerations
	7153			Hemstock		Possible routing of offshore Alaskan oil through Canada
	7163-71			O'Rourke	CAGPL	Logistical considerations of alternative corridors
54	7456-7505	Aug. 14		Weeden	CARC	Alaskan portions of Arctic Gas Pipeline alternatives; research and maps; reserves, location and need; Arctic National Wildlife Range; wildlife and impact environmental; corridors Fairbanks and Fort Yukon; soil conditions, terrain aspects; river crossings, Alyeska right-of-way; highway and access roads; fish and birds; land claims, borrow
	7560-88			Parker	CARC	Corridors through the Arctic National Wildlife Range; federal land; Anaktuvuk Pass, availability of borrow; gas and oil pipelines; Alyeska corridor
55	7605-06	Aug. 15		Hughes	CARC	Soil type; ice content soils; environmental and engineering hazards involved re soil and terrain type; research and study
	7622-24			Hughes	CARC	Comparison of alternative corridors and routes; terrain analysis and information; provision of geotechnical data by the applicant re Fairbanks and Fort Yukon corridors; distribution of permafrost; surface drainage
C-18	1808-12	Aug. 5	FGH	A. Wilson	Citizen	Witness suggests alternate routes
C-22	2228-30	Aug. 11	WH	C. Pearson	Chamber of Commerce	Inevitability of Old Crow impact
	2233-38			A. Wright	Citizen	Majority of terrain good north of 60°
	2264-70			Workman Hushion	CAGPL Foothills	Environmental and economic rationale
	2291-93			O. Posiwaschek	Citizen	Lapse between decision - construction
C-23	2327	Aug. 14		B. Bachelor	Citizen	Use of established corridors
61	8618-22	Sept. 15	YK	Gibbs	Foothills	Distance and location of Foothills route with respect to grave sites at Fort Alexander; location of Mackenzie Highway; Willowlake River
62	8795-8808	Sept. 16		Mirosh	Foothills	Gas supply; alternate route; Prudhoe Bay Supply Line; application to NEB
64	9364-92	Sept. 18		Claridge Mirosh	Foothills	Drainage and slope stability problems warranting rerouting
	9395			Claridge		Routing around Ebbutt Hills; frost heave
	9436-37			Claridge		Slope studies along 10 mile corridor east of the Mackenzie

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65	9454-60 9503-04 9523-27 9610	Sept. 19	YK	Claridge Mirosh Panel 9 Hwang Bauer	Foothills Foothills Foothills Foothills	Avoidance of slope disruption by route alteration Refinement by Foothills of CAGPL route Detailed terrain information necessary to determine final point of chilling in South Routing not finalized
68	10131	Sept. 24		Dau	CAGPL	Route selected for investigation by contractors
75	11053	Oct. 20		Weeden	CARC	Interior, Coastal Mainline Routes; establishment of corridors; Arctic National Wildlife Range; exploration and reserves
76	11144-179 11179-298	Oct. 21		Weeden Parker Weeden Parker	CARC	Fairbanks alternative; Alaskan policies, research Alyeska; routing, availability of gravel; access
77	11354-442 11452-88	Oct. 22		Rutter Roed	CARC	Pipeline routing; Mackenzie Valley; between Mackenzie River and the Franklin Mountains; Mackenzie River and east of the Franklin Mountains; terrain conditions; terrain hazards; physiography; surface and groundwater; river crossings and characteristics; west of the Franklins; better terrain east of the Franklins; borrow sources Edge of the shield route; terrain analysis, mapping, studies; fluted moraine ridges; location to communities re: gas feeder lines; waterbody and river crossings; slope stability terrain advantages; oil and gas reserves
78	11496-598 11617-74	Oct. 23		Roed Minning	CARC CAGPL	Other pipelines; study; terrain analysis and advantages; location of reserves Research, studies; terrain analysis, pipeline design, gas source and needs; re: reading of phase 2 evidence
80	11820-43 11828-39 11850-69 11886-89	Nov. 4		Clark Harlan Williams Hemstock Williams	CAGPL CAGPL CAGPL CAGPL	Avoidance of sensitive terrain; economic factors related to thaw settlement, frost heave, placement of pipe on piles CAGPL studies of route refinement; changes contemplated; recommendation from CAGPL consultants Avoidance of sensitive terrain; method of route selection; wilderness, IBP sites Changes and relocations in route under consideration
81	11978-92 12079-83	Nov. 5		Clark Harlan Minning Williams	CAGPL	Icings along route Location of borrow sources; possible amendments
82	12173-75 12199-12200 12259	Nov. 6		Williams Harlan Hemstock		Possible changes in Yukon routing; change more feasible along coastal route; cost of revegetation along coastal and interior routes Factor of elevation in preference of coastal over interior route Location of route a priority in terms of impact
83	12419-39	Nov. 7		Environmental Panel Scott	CAGPL MVPI	Environmental input after route selection; borrow site location; sensitive pit locations; Rat River pit sensitivities
86	12821-22 12882-83 12899	Nov. 13		Drew Taylor Drew	Foothills Foothills	Community laterals, Pine Point, Rae-Edzo Aesthetic considerations Community laterals
87	13065-74 13088-90 13099-100	Nov. 14		Bouckhout Davison Drew Bouckhout Reeves Bayly Taylor	Foothills Foothills Foothills COPE/ITC	Alternate route, Fort Good Hope; borrow sources Archaeological considerations; rerouting Avoiding scenic areas, minimizing damage

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88	13226-34	Nov. 17	YK	Bouckhout Drew	Foothills Foothills	Selection using terrain sensitivity ratings
	13292-13305			Bouckhout Taylor	COPE/ITC	Aesthetics used for selection; local views
89	13427-30	Nov. 18		Gunn	CAGPL	To minimize bird disturbance, recommendations
	13461-62			Jakimchuk	CAGPL	East versus west of Delta; Travailant Lake change; Fort Simpson change
	13478-79			Jakimchuk		Impact on caribou
	13487-92			Jakimchuk		Mammal impact, coastal and interior routes, advantages, disadvantages; interference, caribou migration
90	13577-85	Nov. 19		Dabbs	CAGPL	Vegetation information input; clearing of right-of- way, effects on snow depth
	13645-47			Hemstock	CAGPL	Corridor shaped by history, past developments
	13731-32			Hemstock		Cross-Delta route will be prime route
91	13778-96	Nov. 20		McCart	CAGPL	Route fish impact survey, route selection, site specific recommendations
	13847-92			Dau	CAGPL	Mileage, cost comparisons of alternative routes
92	13977-78	Nov. 21		McCart		Choice between Interior and Coastal alternates if permanent project road eventually built; fish concerns
93	14163-68	Dec. 1		Gunn	CAGPL	Advantages and disadvantages re: route selection in terms of biological species; discussion among consultants
94	14221-44	Dec. 2		Gunn Hemstock	CAGPL	Compressor station - mobility, distance to bird nesting areas
95	14385-451	Dec. 3		Environmental Panel	CAGPL	Research, environmental assessment approaches; route selection; terrain typing; EPB matrix; access roads, facilities; alternative routes
97	14772-78	Dec. 5		Gunn Hemstock		Selection of Cross-delta route, Fort Simpson route change, decision making; EPB's environmental impact matrix as aid
99	15086-104	Dec. 9		Hemstock		Aesthetics, archaeological sites, influence on location
	15107-85			Environmental panel	Foothills	To minimize environmental impact
100	15203-27	Dec. 10		Environmental panel		Biologists had no say in original selection; field studies on route
	15271-74			Bouckhout	Foothills	Environmental analysis of route, impact assessment; route, differences to CAGPL's
101	15420-35	Dec. 11		Peterson	CARC	Guidelines cover corridors not routes; geographic coverage of E-S P reports reflect routes proposed by potential applicants
	15507-16			Peterson Scott Berger	MVPI	Corridors, exclusion of Mackenzie Delta in guideline corridors
102	15549	Dec. 12		Peterson		West side of Mackenzie considered as possible route by Environment-Social Committee
103	15747-54	Dec. 15		Walker	CARC	Analysis of Coastal, Interior Routes, Fort Yukon, Fairbanks Corridors
105	16060-64	Dec. 17		Marshall	CAGPL	Less environmental impact re: deviation of guidelines in particular circumstances, specific recommendations re: pipe burial, crossing length and protection against erosion
107	16286-315	Jan. 12		Templeton McT-Cowan Bliss	EPB EPB EPB	EPB preference of route; Prime, Interior routes differ little re: Dall Sheep; Grizzly Bear; Prime Route detrimental to caribou; little impact to furbearers; fish - favours the Prime Route; transportation of equipment etc.; route comparisons by Bliss - in favour of Interior
108	16491	Jan. 13		Adam	EPB	Terrain conditions considered during route selection process
109	16665-67	Jan. 14		Templeton Scott Berger		Calef route; impact of development on the North Slope

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110	16846-57	Jan. 15	YK	Calef	CARC	Route preference; Calef's alternative route on the interior - avoidance of Old Crow Flats, Arctic National Wildlife Range, Yukon-coastal plain, use of the Dempster and seismic lines
111	16979-17000	Jan. 16		Davies	MVPI	Route selection methods
C-26	2713	Sept. 9	FS	A. Nahanni	Citizen	Questions re: right-of-way, location of pipe, how close to his cabin
C-30	2934-35	Oct. 6	PP	Mirosh	Foothills	Proposed route, Pine Point lateral
C-32	3072-73	Oct. 8	FR	Boggins	Citizen	Opposition to pipeline route
C-33	3132-34	Oct. 9	FS	Barford Mirosh Carter	Citizen Foothills CAGPL	Location of pipeline, route, distance from Wrigley, Fort Norman, Arctic Red River and Fort McPherson
C-38	3676	Feb. 15	In.	Koe	Citizen	Use of tankers instead of cross-Delta route
112	17112-13	Jan. 20		Bliss	GPC-D	Exclusion of pipeline activities in Caribou Hills IBP site
122	18581-87	Feb. 11		Barry	COPE/ITC	Definition of Barry cross-Delta route proposal
125	19032-33	Feb. 14		Shearer	COPE/ITC	Placement of flowlines in offshore channels
126	19293	Feb. 16		Snow	COPE/ITC	Pipeline routing based on river discharge, sediment carrying capacity
130	19740-51	Mar. 16	YK	Williams	CAGPL	Evidence in chief selection of cross-Delta route
	19782-83			Williams		Northern Engineering Service, first look at cross-Delta route
	19792			Williams		Cross-Delta route selected without reports of studies
132	20015-37 20046	Mar. 18		Williams Williams		Cross-Delta route versus Barry route Reasons why route crosses fan of Malcolm River
133	20126-A-27 20136	Mar. 23		Rowe Rowe	CAGPL	Cross-Delta route, studies Parsons Lake lateral route similar to Foothills route
	20175-90			Environmental panel	CAGPL	Comparison of impacts of cross-Delta, old prime, interior and Barry routes on Delta
134	20306-12	Mar. 24		McCart	CAGPL	Possible realignments of cross-Delta route to avoid important fish spawning, overwintering areas
	20332-33			Gunn	CAGPL	Circum-Delta route preferable to cross-Delta for birds
	20383-84			Webb	CAGPL	Delta route preferences to minimize whale impact
	20397-98			Jakimchuk	CAGPL	Comparison of various routes across Delta, impact on mammals
135	20429-59	Mar. 25		Environmental panel	CAGPL	Cross-Delta route
	20471-86			McCart		Realignment, cross-Delta route to reduce impact on fish; comparison with Barry route
	20499-505			McCart Jakimchuk		Barry route still flexible; avoidance of grizzly denning areas, cross-Delta route
	20524-25			Hemstock	CAGPL	Avoiding IBP sites
	20560-62			Hemstock		Use of DEW line stations, North Slope, CAGPL consideration
136	20608-26	Mar. 26		Environmental panel		Alternative routes, cross-Delta and Prudhoe Bay Supply Line
	20711			Peet	MVPI	Should avoid commercial domestic, sports fisheries
137	20794 20871-72	Apr. 5		Davies Davies	MVPI	Route alignment, minimal environmental impact Process to arrive at environmentally acceptable route
138	21015-18	Apr. 6		Berger Mossop	MVPI	Buried gas pipeline along coastal route, not interior route
151	23069-70	May 5		Irving	CYI	Possible re-routing, areas of archaeological importance
	23166-71			Smith	CYI	Opposition to a route in vicinity of Old Crow
	23178-83			Smith		Suggestion that native people should choose the route

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C-47	4561-63	Mar.13	ARR	Beer N. Norbert	Foothills Citizen	CAGPL and Foothills' routes, concern re gravel from Travailant Lake
	4609-14			J. Andre Berger	Citizen	Foothills' route, CAGPL route; concern for Mackenzie River crossing
C-55	5953	May 18	EDM	A. Meyer	Citizen	Should serve northern communities
C-56	6036	May 19	REG	Schubert	Citizen	Should run east of Great Slave Lake, south into Saskatchewan
C-69	7947	July 17	KL	Ellwood	Foothills	Explanation to local people of pipeline, proximity to community
C-76	8353-54 8364	Aug 25	DET	Burrell Berger	Foothills	Outline of Foothills How route follows mountain and Mackenzie
193	30200-205	Oct.5	YK	Templeton	EPB	Cross-Delta route evaluated
194	30420-22	Oct. 6		Wylie	MVPI	Beaufort Delta - parameters influencing oil pipeline routing
195	30464-65	Oct. 7		Bayly Mirosh	COPE/ITC Foothills	Alignment of route with Tuk to Inuvik road to eliminate gravel pad construction
200	31615-18	Nov. 15		Scott	MVPI	Pipeline routing along northern Yukon, Fairbanks corridor
	31634-35			Berger Scott		Alternate pipeline routing through Yukon Territory
	31708-15			Genest	CAGPL	Fairbanks corridor - outside terms of reference of Inquiry, information available
201	31836-38	Nov. 16		Templeton	EPB	Comparison of EPB, Commission Counsel positions on routing
	31845			Templeton		CAGPL Ebutt Hills route
203	32065-75	Nov. 18		Anthony	CARC	Importance of route selection; consideration of alternatives, Calef route; alternative routes must be evaluated; routing through Arctic National Wildlife Range not compatible because of wilderness status; must be consideration for International Wildlife Range in Canada; preference for Fairbanks corridor

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C-37	3581-83	Feb. 10	In	Burrell Berger	Foothills	Royalties from gas - distribution of income
C-38	3650-51	Feb. 12		Rowe Burrell	CAGPL	Resource ownership and royalty payments
C-39	3725	Feb.18		Hill	Citizen	Royalties on petroleum production or taxation on assets
150	22893	May 4	YK	Hills	NWT IB/MA	Low level paid to Brazilian government by transnational corporations
152	23346	May 6		Notti	CYI	Alaska native land claims
C-40	3887	Feb.23	AK	Thrasher	Citizen	Compensation for land used for pipelines, benefit to natives
C-47	4539	Mar.13	ARR	R. Andre	Citizen	From cash developments to fund local economic development
C-56	6036	May 18	REG	M. Schubert	Citizen	Pipeline companies, for rights across Dene land
154	23587 23619-20	June 29	YK	Watkins Watkins	NWT IB/MA	Taxation, resources industries Alternative development, Dene right to tax non-renewable resource sector
155	23668-70	June 30		Watkins		Generation of, division among Inuit, Dene
155-A	23839-44			Jelliss	NWT IB/MA	Economic rents obtained from NWT mining projects, natives not obtaining share
	23887-91			Hollingworth	Foothills	Using Alberta as example, beneficiaries of royalties

ROYALTIES (continued)

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157	24011-15	July 5	YK	Thompson	NWT IB/MA	James Bay Agreement; Inuit settlement, royalties stipulated under federal petroleum and mining laws
	24024			Thompson		From resources to Federal Government
	24036-39			Bayly Thompson	COPE/ITC	Mismanagement of natural resource revenues
159	24411-12	July 7		Boorkman	CAGPL	Revenues from resources, percentage of total Alaska revenues
165	25570-93	July 19		MacLeod	Foothills	Basis of royalty projections, estimate of corporate income taxes payable by applicant
	25643-50			Bell MacLeod	NWT IB/MA	Royalty scheme, progressive incremental royalty; "Statement of Policy Proposed Petroleum and Natural Gas Act, and New Canada Oil and Gas Land Regulations"
C-77	8435	Aug 26	DET	J. Tobie	Citizen	Natives should receive benefits from development
181	28056-57	Sept. 8	YK	McGambly	MVPI	Use of U.S. money to solve native land claims; favour CAGPL
	28121			Reimer	MVPI	Native should fully benefit
185	28623	Sept. 15		Mayhall	COPE	Proposal that trust fund be established from royalties to ensure future oral health care
189	29275-77	Sept. 22		Nickerson	NWT/AM	Percentage of pipeline revenues to Territorial government, mutually agreed upon with federal government
200	31663-66	Nov. 15		Genest	CAGPL	Estimated annual revenues from gas production
202	31986-89	Nov. 17		Sigler	AM	Development of community Heritage fund from royalty revenues

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XVI	1801-03	Mar.12	YK	Dau	CAGPL	Re: river crossings, dual pipeline
XLX	2198 2206-07	Mar.17		Williams	CAGPL	Sans Sault test site; seismic cuts
XLXA	2278-83	Mar.17		Morgenstern Hardy Clark	CAGPL CAGPL CAGPL	Interior vs. prime route; risk Alaska pipeline
XXI	2487-98	Mar.19		Hollingworth Morgenstern	Foothills	Seismic scales, energy release; observation methodology, stations; absence of active faults on interior route; pipeline design to accommodate earthquake; twinning of line? burial depth, backfill material
XXVI	3175-77	Apr.9		Morgenstern		Silt till contour, geophysical techniques
XXVIII	3456-58 3517-18	Apr.11		Clark Morgenstern		Seismic surveys Earthquakes, slope failure
XXIX	3706	Apr.14		Purcell	CAGPL	Design criteria to resist low seismic activity
XXX	3759-63	Apr.15		Purcell		Design
XXXII	4157-60	Apr.18		Purcell		Liquefaction - effect on pipe
XXXIII	4305	Apr. 21		Dau		Existing cut or seismic lines
48	6414-16	June 4		Wilimovsky	EPB	Sec 24 of Code re: blasting
C-I	51	Apr.2	Aklavik	Ross	Citizen	Earthquakes in the Aklavik area in the past
C-7	657	June 24	F.F.	J.Bayah	Citizen	Seismic activities, scarcity of animals
C-8	697-705 724-28	June 25		Tekzo J.Kenny	Citizen Citizen	Application by Masette Petroleum, land use permit Seismic lines, environmental damage
C-9	777-833	June 26		Tutcho	Citizen	Seismic lines
C-11	1008-10 1017-19 1049	July 8 July 8	F. McP.	J. Kay A.Kunnizzi Elwood	Citizen Citizen Foothills	Environmental damage; damming of rivers Seismic work, Mackenzie Delta Environmental damage
C-13	1258-59	July 10	F. McP.	J. Charlie	Citizen	Seismic Camp, bulldozer damage
C-14	1296 1334 1357-60	July 11	O. C.	C. Charlie C. Abel A. Charlie	Citizen Citizen Citizen	Damage to pipeline by earthquakes Crews tearing up land Seismic work left marks on the land
C-16	1490 1519-20 1539-40 1551	July 13		E. Bruce A. Charlie W. Eckgrader R. Allen	Citizen Citizen Citizen Citizen	Seismic work, effect on fur bearing animals, ptarmigan, rabbits Lines have created checkerboard pattern Two seismic lanes, Old Crow Flats Seismic companies not always working within guidelines
53A	7338	Aug. 13	WH	Leonard	CARC	Restoration of cuts, Mackenzie Delta
C-18	1830-32	Aug. 5	FGH	L. Boucan	Citizen	Impact of seismic work on the land
C-20	2014 2050-51	Aug. 7		G. Rabisca T. Kakfwi	Citizen Citizen	Blame for scarcity of fur and caribou Explosives
65	9455-60	Sept. 19	YK	Claridge	Foothills	Dynamic load factors and seismic risk in slopes
69	10449-53 10458-61	Sept. 25		Owen Owen	MVPI	Land Use Regulations; Exploration; operations of permit holders Seismic operations; cross-overs constructed; equipment and construction activities
79	11728	Nov. 3		Dabbs	CAGPL	Cut with blade, material later re-established
82	12246-56	Nov. 6		Hemstock	CAGPL	Crossing of right-of-way by seismic crews; regulatory implications and responsibilities
87	13109-10	Nov.14		Bayly Taylor	COPE/ITC Foothills	Seismic lines, Inuvik, aesthetics
96	14570 14576-78 14584 14640-44 14688-90	Dec.4		Jakimchuk Berge Jakimchuk Banfield Jakimchuk Jakimchuk McCarr Jakimchik	CAGPL CAGPL CAGPL CAGPL CAGPL	Seismic camps and activity south of the village of Old Crow and Eagle Plains area Seismic lines used in experiments re: barriers to caribou, snow fences Caribou encountering seismic lines, deflection of migration path Incidence of caribou on seismic lines and around active seismic camps and airstrips Seismic work in the Old Crow Flats; fish; blasting on the Old Crow River; salmon runs

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97	14780	Dec. 5	YK	Templeton	EPB	100 year seismic risk
98	14893	Dec. 8		Scott	MVPI	Seismic lines caused erosion, Inuvik
	14958			Jakimchuk	CAGPL	Caribou coping with seismic lines
99	15053	Dec. 9		Scott		Effect of seismic lines on wilderness value of area
104	15903	Dec. 16		Stein	CARC	Fisheries Service official directing operations away from Cache River fishing areas
105	15993	Dec. 17		Millen	CARC	Staging areas initially established as seismic staging areas
108	16502-06	Jan. 13		Adam Templeton	EPB	Construction of seismic lines, equipment used, impacts on terrain, permafrost, thaw settlement, erosion
C-36	3447-51	Jan. 28	In	Alonik	Citizen	Environmental impact
	3515-16	Jan. 29		Mainland	GPC-D	Former environmental damage; new techniques
	3544-45			Mainland Workman	CAGPL	Cleanliness of operation
C-39	3774-76	Feb. 18		Alonik	Citizen	Impact of seismic lines on land used for trapping; effect on muskrats
112	17017-18	Jan. 20		Horsfield	GPC-D	Seismic surveying of potential oil, gas fields
	17035			Scott	MVPI	Requesting seismic line maps to be made exhibits
	17049			Bliss	GPC-D	Fire stopped by seismic line
	17376			Berger		Likelihood of well blowout at first drilling of gas well with only seismic information to go on
118	18009-15	Jan. 27		Horsfield Czaja	GPC-D-I GPC-D-S	Seismic maps prepared by Federal Government, new techniques being developed; seismic programs on Elllice Island and Richards Island
121	18429-30	Feb. 10		Stein	COPE/ITC	Seismic exploration - impact on fish resource
122	18574-78	Feb. 11		Barry	COPE/ITC	Permits for seismic work in bird sanctuaries
	18601-02			Stein		Seismic techniques used in Beaufort Sea - impact on fish
124	18877-84	Feb. 13		Shearer	COPE/ITC	Seismic records - Beaufort Sea offshore permafrost, pingos, ice islands, sea floor scouring
	18890-92			Shearer		Seismic records of ice island scouring on Beaufort Sea floor
127	19345-62	Feb 17		Longlitz	COPE	Summer seismic work, Tuk Peninsula, environmental damage; multiplicity seismic operations, Shell's modified program; report by A.L.U.R.; impact on native people
	19374-80			Goudge Longlitz	MVPI	Techniques for seismic operations, equipment, seismic records; Caribou Hills Summer Seismic Program, experimental; land based seismic operations
	19389-410			Monaghan	COPE	Impact of seismic exploration on wildlife
	19432-33			Monaghan		Effect of seismic activity on animal populations; displacement of musk-ox on Banks Island
128	19482-83	Feb. 18		Trudeau	COPE	Sub-lethal effects of seismic charges, blasting, use of black powder
	19488-89			Trudeau		Alternate power sources, air guns, geogel; vibrosis, dynoseis, vapor-shock, electrocution of fish
	19525			Trudeau		Effect of seismic on fish stock, depletion or constant
130	19758	Mar. 16	YK	Hollingshead	CAGPL	Recommendations for design of cross-delta route re earthquakes
131	19849-51	Mar. 17		Clark Williams	CAGPL CAGPL	Precautions taken re pipe movement due to liquifaction caused by seismicity, Shallow Bay, other Delta crossings
140	21304-55	Apr. 8		Usher	COPE/ITC	Petroleum exploration on Banks Island; native concerns - environmental impact; failure of oil companies to obey seismic agreement with Banklanders Panartic-intention to conduct year-round exploratory activities on Banks Island

SENSITIVE ENVIRONMENTAL AREAS (continued)

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102	15588-611	Dec. 12	YK	Peterson	CARC	Areas to be avoided, proposed IBP sites
103	15734-36 15760-88 15824-26	Dec. 15		Stein Steigenberger	CARC	Fish spawning and overwintering areas Identification re: sensitive open water, spawning, aufeis areas along Prime, Interior Routes
104	15889-90	Dec. 16		Stein Marshall	CAGPL	Listed - Swan Lake Creek, Three Day Lake - Stewart Creek drainages, Arctic Red River, Rabbitskin, Liard, Martin Rivers
105	15902 15983-86 10652-56 16067 16091	Dec. 17		Steigenberger Stein Ryder Millen Ryder	CARC MVPI	Protection of sensitive fisheries areas - documented, potential spawning, overwintering sites Sensitive spawning sites re: pipeline route Critical habitats of fish, severe repercussions Re: spawning, migrating, overwintering of fish, request for more complete data Stream mouths re: highway routing Categorization
107	16313-14	Jan. 12		Templeton	EPB	Mackenzie Delta - only delta in the Canadian Arctic
109	16586-87 16652-59	Jan. 14		McT-Cowan McT-Cowan Berger	EPB	Special capability for wildlife protection Guidelines 4 and 5; designation of unique and sensitive areas
117	17764	Jan. 26	IN	Webb		Sites within critical bird areas, Kendall Island Bird Sanctuary

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XX	2386-87	Mar. 18	YK	Clark	CAGPL	PAAG concerns, CAGPL Responses, suspended sediment transport, impact on aquatic ecosystems
XXI	2461-63	Mar. 19		Cooper	CAGPL	Slide presentation: river bed degradation, location of borrow pits, sediment transport; removal of sediment load from a river
XXIV	2809-14	Apr. 7		Hollingshead Cooper	CAGPL	Sediment from work berm at river crossing and effect of sediment on fish
XXVIII	3507-09			Morgenstern		Transport of sediment in water course
XXXVIII	4852 4899-4903	May 14		Dau Lucas	CAGPL CARC	Washing borrow materials; cement making Construction of Great Bear River Crossing, downstream disturbance
XXXIX	5072-76 5082-83 5140-41 5153-54	May 15		Williams Williams Harlan Harlan	CAGPL	Deposit of spoil mound in rivers at crossings Effect on aquatic life Consequences of erosion Control during revegetation, silt ponds
44	5833			Bayly Horte	COPE/ITC	More sediments, west side of Mackenzie River
47	6153-60	June 3		Wilimovsky	EPB	Fish tolerance and adaptation to increased silt levels
55	7602-05	Aug. 15	WH	Hughes	CARC	Glacial silt; glacial deposits - clays, sands, gravels; glacial lake deposits
C-18	1811	Aug. 5	FGH	A. Wilson	Citizen	Impact of river crossing at Hare Indian River
62	8821-22	Sept. 16	YK	Walker	Foothills	Rivers crossings; silt load; damage to fish and spawning areas; studies
64	9414-34	Sept. 18		Spafford	Foothills	Reports for EPB and Foothills dealing with sedimentation level data; method of small stream crossing and soil waste disposal; effects of borrow operations in streambeds
70	10543 10555-56 10573-76	Sept. 26		Longlitz Longlitz Lewis	MVPI	Proximity of access road to a waterbody, potential for erosion and siltation Bank slope degradation; surface material removal; erosion creation; spring flooding Channel characteristics of the Blow, Firth and Babbage Rivers; gravel materials; bed armour; Malcolm River crossing

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140	21471-72	Apr. 8	YK	Cournoyeva	COPE/ITC	Seismic operations - Anderson River, Fort McPherson
C-40	3870	Feb. 23	AK	Greenland	Citizen	Crews disregard communities, environment; promises broken re caribou
C-41	3942	Mar. 3	HOL	Kataoyak	Citizen	Disregard for native people's wishes, environment
C-42	4043-45 4060-61	Mar. 4	SACHS	Essau Elias	Citizen Citizen	Caribou found tangled with seismic wires Caribou entangled with seismic wires
C-43	4145 4153-55	Mar. 7	NSH	F. Wolkie S. Wolkie	Citizen Citizen	Impact of blasting on fish Damage to wildlife, fish; impact of noise on caribou
C-44	4278-80	Mar. 9	TUK	Noksana	Citizen	Impact of seismic work on hunting grounds, decline of game
C-46	4429	Mar. 11	PAUL	G. Ruben	Citizen	Date to shut off seismic before caribou migration
C-47	4576	Mar. 13	ARR	J. Andre	Citizen	Lines are creeks in mountains
C-68	7912-13	July 16	FP	G. Gargan	Citizen	Possible earthquake, impact on pipeline integrity
C-75	8311-12 8315 8318 8334-35 8339	Aug 21	CL	P. Blanco E. Blanco T. Codzi C. Cuzon J. Martin	Citizen Citizen Citizen Citizen Citizen	Disturbs wildlife; from exploration Trails ruined land Effect on wildlife From dynamite, kills animals, effect on fishing and hunting Ruins trapping areas
192	29882-83	Oct 4	YK	Baring-Gould	MVPI	1963 earthquake in Valdez, community relocated

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93	14195-96	Dec. 1	YK	Gunn	CAGPL	Canning River, Old Crow flats considered as sensitive environmental areas
94	14204-20			Gunn Jakimchuk McCart Banfield	CAGPL	Identification of areas, Old Crow Flats; Yukon Flats; series of coastal lagoons along the Beaufort Sea, concern for Demarcation Bay; Ptarmigan Bay avoidance; Canning River Valley; Marsh Fork; crossing of the Delta-Upper Delta; Campbell Hills
96	14687-88	Dec. 4		Jakimchuk		Old Crow Flats; seismic work
98	14865-84	Dec. 8		Gunn Hemstock	CAGPL	For birds, Mackenzie Delta; use of DEW line sites for compressor stations, North Slope
	14889-90			Gunn		North Slope ponds, lakes
	14906-07			Gunn		Peregrine Falcon ranges, Mackenzie Delta
99	15121	Dec. 9		Hayden	Foothills	Identification of sensitive areas for fish
100	15323	Dec. 10		Finney	Foothills	Lowland and wetland areas of Mackenzie Delta
101	15419-20 15426-27	Dec. 11		Peterson	CARC	Guidelines re: specific sensitive areas; no specific areas as yet declared although Campbell Lake recommended as an exclusion area re: Guideline #4
	15428-35			Peterson		Designation of specific areas for avoidance under guideline #4; Kakisa, Hare Indian, Willowlake, Trail, Harris, Jean Marie, Trout, Great Bear, Old Crow rivers; various stream systems important in fishery terms; areas highly susceptible to terrain and surface damage; proposed Dolomite/Campbell Lakes IBP site; proposed national landmarks; fish overwintering areas; Horseshoe Bend; proposed IBP sites; western Old Crow Range; possible changes in routing if above areas avoided
	15464-66			Zoltai	CARC	Sensitive terrain areas to be avoided or treated with special care; effects of width of ROW
	15500-02			Zoltai		Ebbutt Hills and area west of Hills, susceptibility to frost heave

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70	10576-92	Sept. 26	YK	Lewis	MVPI	Influence of storm induced floods; melt water and spring floods; flow data; suspended load; bedload transport; frozen river beds; studies; measurement of bedload data
	10583-87			Lewis		Mining of inactive flood plains for borrow; channel degradation; impact on fish
72	10760-67	Oct.15		Lewis		Coastal action; storm action and erosion of coastal cliffs; Beaufort Sea; Tuk peninsula; Tuktoyaktuk harbour; dredging
	10768-76			Lewis		Flood plain; river bed gravel; sub-riverbed materials; ice scour
75	11102-04	Oct.20		Parker	CARC	Aggravation to fish population due to increased siltation and erosion caused by construction; river crossings; fish migration and spawning areas; winter construction
76	11164-65	Oct.21		Parker		Impact on stream and rivers re: mining of river bars for gravel
78	11658-65	Oct. 23	YK	Minning	CAGPL	Removal of gravel from stream beds, borrow operations; silt load increase from borrow pit operations; prevention of introduction of unacceptable sediment loads into surface waterbodies; overwintering of fish; water flow; icings
79	11697-98	Nov. 3		Minning		Limitation on equipment passage on both active and fossil flood plains
	11704-11			Minning		Use of berm at gravel stockpile sites to prevent siltation; impacts on spawning from channel on active flood plains cut by bulldozer; breaches in berms; natural turbidity; gravel washing operations
80	11902-03	Nov. 4		Williams	CAGPL	Use of distilling ponds for cleaning gravel
	11908-09			Harlan	CAGPL	Siltation pond to prevent sediment from entering water course at Oscar Creek
81	12115-33	Nov. 5		McCart	CAGPL	Impact of turbidity resulting from borrow removal and dissolved oxygen on fish in braided rivers
82	12198-99	Nov. 6		McCart		Introduced sediment levels compared to natural levels
	12258			Williams		Siltation situations caused by construction
	12268-75			Harlan		Impacts of slope failures on sediment loads in rivers: natural and pipeline related failures of slopes
83	12427-51	Nov.7		Scott Environmental Panel	MVPI CAGPL	Rat River borrow site
	12465			McCart		Gravel mining, North Slope rivers, impact on fish
	12486-88			Scott McCart		Bed load; impact on fish eggs, avoiding gravel mining, North Slope
83	12492-504	Nov. 7	YK	Scott Environmental Panel	MVPI CAGPL	Gravel pits, riverbeds, seepage; topsoil in pit; pit near river
84	12526-55	Nov.8		Anthony Environmental Panel	CARC CAGPL	From excess spoil material disposal; river crossings, control measures; borrow pits, active flood plain
85	12641	Nov.12		Bayly	COPE/ITC	North Slope rivers, alternative construction techniques
85-A	12774-90	Nov.12		Scott McCart	CAGPL	Effects on fish, Mackenzie River, tributaries, causes, control; problems, Fraser River; silt loads; water by-pass as control at river crossings
86	12844-48	Nov.13		Claridge	Foothills	Drainage, erosion control
88	13306-12	Nov.17		Bouckhout Claridge	Foothills	River crossings, winter, water by-pass methods
88-A	13383-90			McCart		Studies; fish impact; borrow sites
90	13736-63	Nov.19		McCart		Effect on fish; siltation from river crossing berms, Great Bear River, Swimming Point
91	13810-30	Nov.20		McCart		At river crossings; environmental inspectors; recommendations; sediment loads
	13909			McCart		From roads, impact on domestic fisheries
92	13961-72	Nov.21		McCart		Impact on fish populations; turbidity sediments, suspended sediments; definitions, siltation by foreign materials; timing

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92	13982-88	Nov.21	YK	McCart	CAGPL	Pointed Mountain, Kotaneelee River crossing, siltation due to bad construction; impact of siltation on spawning grounds
	13991-95			McCart		Culverts, increase in river velocity and sedimentation, impact on benthos, fish; synergistic effect of high silt load and toxic chemicals
	14047-59			McCart		Biological Report Series, Vol. 15, guidelines to reduce sedimentation; measuring siltation through ice; corridor concept
93	14083-84	Dec.1		McCart		Avoidance of an area due to heavy siltation; impact on domestic fishing sites; Great Bear River crossing
	14088-92			McCart		Monitoring programs
	14100			McCart		Research re: tolerance levels of benthic organisms to sediment loads
95	14483-84	Dec.3		McCart		Increased siltation - impact on fish, eggs
98	14892-96	Dec.8		Scott Gunn Hemstock	MVPI CAGPL CAGPL	North Slope ponds, lakes
100	15217	Dec. 10		Hayden	Foothills	Winter siltation experiments
	15297-310			Hayden		Winter siltation experiments at river crossings, impact on benthic organisms, fish eggs; water by-pass channels during crossing construction; silt control techniques
101	15395	Dec. 11		Hayden	Foothills	Need for winter siltation study
103	15756-61	Dec. 15		Steigenberger	CARC	Summary of Bryan Report 73-6, freshwater fishery resources of North Yukon; recommendations re: further definition of corridor concept to permit fish resource impact analysis
	15777-80			Steigenberger		Recommendations re: gravel removal
	15837-38			Stein Marshall	CARC CAGPL	Impact downstream of crossings
104	15867	Dec. 16		Stein		Recommendation - additional studies required
	15871			Stein		Further study recommendation
	15903			Stein		Impact studies by Drs. N. Snow, D. Rosenberg cited
	15926-27			Bayly Stein	COPE/ITC	Follow-up studies at Rengleng River crossing failure
	15932-37			Walker Millen	CARC CARC	Sampling at LaBiche River; Martin River crossing failure
	15939-41			Stein		Relating fish decline to man-initiated siltation
105	16024-30	Dec. 17		Marshall		Miner Creek sedimentation study re: caused from seismic line; Harris Creek study re: controlled sediment level - Doctors Snow and Rosenberg, Freshwater Institute
	16063-64			Steigenberger		Relation to fish, engineering solution
	16079-87			Steigenberger		Effects on overwintering areas; effects on summer preparation of fish for winter; levels of silt introduction re: fish survival; "chronic" siltation re: maintenance construction or looping; standards re: levels of sedimentation, operating guidelines; protection methods and precautions
107	16329-30	Jan. 12		Wilimovsky	EPB	Safe siltation levels; Dr. McCart's evidence re: enforcement of aquatic protection measures; standards of the environment
109	16692-701	Jan. 14		Wilimovsky		Fish tolerance, research; fish management
111	16977-78	Jan. 16		Davies	MVPI	Studies of impact on char as example of lack of information of systems sensitivities
112	17073	Jan.20	In	Bliss	GPC-D	Light's ability to penetrate water linked to productivity
	17080			Bayly Bliss	COPE/ITC	Ponds in Delta receive sediment from upstream
115	17490	Jan.23		Faulkner	GPC-D-S	Niglintgak gas field - terrain degradation

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116	17650 17652 17673-75	Jan.24	IN	Rempel Rempel Rempel Appleton	GPC-D-I GPC-D-G	Interception of drainage patterns by roads; siltation Temporary siltation of water body at crossings for permanent roads; increase in suspended sediments by dredging Measures to prevent siltation; cofferdam, dyke, contouring
121	18392-95 18409-10 18422 18435	Feb.10		Grainger Percy Percy Stein	COPE/ITC COPE/ITC COPE/ITC	Silt deposition - Mackenzie River into Beaufort Sea - impact on light penetration, plant, nutrient distribution Oil spill interaction with a sediment plume - impact on benthic organisms Need for studies on interaction between spilled oil, suspended sediments, marine ecology Impact of sedimentation of oils on spawning areas, benthic organisms
122	18697-99	Feb.11		Stein		Impact of dredging, siltation on fish migration, habitats in delta
124	18874-75 18883-84 18900-02 18915-22	Feb.13		Shearer Shearer Lewis Lewis	COPE/ITC COPE/ITC COPE/ITC	Mackenzie River - sediment load deposition in delta Sediment desposition in Mackenzie Bay Sediment movement in Beaufort Sea coastal zone Relationship between coastal retreat sediment desposition, sediment removal
125	19026-30 19047-51	Feb.14		Lewis Shearer Lewis		Nature of sediments, consolidation, scouring in Shallow Bay Sediment desposition in Shallow Bay
126	19246-50 19289-94	Feb.16		Snow Snow	COPE/ITC COPE/ITC	Effects of suspended sediment on fish food organisms in Harris, Rengleng Rivers Potential for use of annual maximum discharge being able to remove added sediment from river substrates as a criteria for fish protection
130	19761-62 19836	Mar.16	YK	Hollingshead Williams	CAGPL	Settlement of deposits in Shallow Bay Dredging Shallow Bay, siltation between excavation and pipe installation
132	20056-59 20071	Mar.18		Hollingshead Cooper Cooper	CAGPL	Sediment movement, bottom of Shallow Bay Deposition in Shallow Bay
133	20152	Mar.23		McCart	CAGPL	Protection of clear Delta lakes, cross-Delta route
134	20229-31 20240-44 20283-87 20296 20310 20347-48	Mar.24		McCart Webb McCart McCart McCart	CAGPL	Turbidity in Delta channels, effects on fish migration as a result of river crossings Turbidity makes whale studying difficult, Shallow Bay; turbidity in Shallow Bay roughly shows warm water area Impact of siltation from Delta river crossings on benthic organisms Streams in Mackenzie drainage with highest silt loads have lowest benthic crops Siltation of Shallow Bay crossing will decrease macro invertebrate habitat created in gravel backfill If cross-Delta and coastal routes built in summer, siltation problems from road and borrow operations
135	20461-65 20472-81 20577 20590-95	Mar.25		McCart McCart Sprague Sprague	MVPI	From construction, Delta channel crossings, measures to reduce impact on fish Impact on overwintering fish, cross-Delta route; mitigating measures Silt problems, Guelph Ontario project Impact on fish; causes, prevention, testing, standards

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136	20638-39	Mar. 26	YK	Sprague	MVPI	Effects on fish; avoidance
	20646-52			Sprague		Criticism of some CAGPL studies on lethal levels for fish; standards for safe levels; short-, long-term effects; winter use of standards difficult
	20655-56			Sprague		Use of benthic organism diversity index change as measure
	20668			Sprague		Fish tolerance of silt, reactions
	20677-78			Sprague		Use of control, location upstream of benthic diversity index change monitoring site for siltation measurement
	20679-83			Sprague		Setting up regulations, standards; siltation, turbidity tests
	20709			Peet	MVPI	Impact on fishery
193	30101	Oct. 5		Hernandez	EPB	Canyon Creek - local drainage should be controlled to prevent washoff from construction areas

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XV	1635-1703	Mar. 11	YK	Mollard	CAGPL	Permafrost
XIX	2197-2217	Mar. 17		Williams	CAGPL	Sans Sault Test Site
XX	2312-2341	Mar. 18		Slusarchuk	CAGPL	Frost heave; testing
	2347-63			Morgenstern	CAGPL	Flows, slides
XXI	2421-2467	Mar. 19		Hollingshead	CAGPL	Viewgraphs; stabilization berm; slides on river crossings
	2480-86			Clark	CAGPL	Drainage and erosion spoil mounds, water transfer; Diversion dikes, granular caps, gabions
XXVI	3240-41	Apr. 9		Slusarchuk		Heave profiles along pipe sections, October 1974
XXVII	3294-3305	Apr. 10		Williams		View graphs - soil conditions, escarpment, Sans Sault, drill hole data
	3326-47	Apr. 10		McRoberts	CAGPL	Sans Sault test site
XXVIII	3440-45	Apr. 11		Scott	MVPI	North slope rivers
	3486-88			Clark		Frost bulbs, culverts
	3523-27			Scott		Sandwich technique, slope stabilization
XXIV	3562-63	Apr. 14		Cooper	CAGPL	Plot flood frequency curve
	3567			Scott		Slides as exhibit #102
	3674-80			Reid	CAGPL	Hydrostatic testing of pipeline - methanol or water
	3683-94			Holmberg	CAGPL	Behaviour of metals, tests
	3707-14			Price	CAGPL	Pipeline subjected to loadings
XXX	3716-28	Apr. 15		Price		Wrinkles, stress analysis
	3731-34			Koskimaki	CAGPL	Layout, compressor stations
	3746			McMullen	CAGPL	Communications
XXXI	3966	Apr. 16		Reid		Slide of April 15, warm water for testing
XXXIII	4232-37	Apr. 21		Dau	CAGPL	Schedule - revised and original plans
	4241-47			Dau		How spreads move and how construction accomplished
	4248-50			Dau		Materials transportation
	4290-93			Dau		Construction schedule - peaks
	4296-4343			Williams	CAGPL	Resource requirements North of 60
	4306-22			Williams		Snow road research project
	4333-34			Dau		Reid's bladder tank
	4341-52			Williams		General pipeline construction
XXXIV	4376-77	Apr. 22		Marshall	CAGPL	Film on automatic welding
	4531			O'Rourke	CAGPL	Exhibit #110, tonnage of pipe, Prudhoe Bay lateral
XXXV	4611	Apr. 23		Berger		William's slides of ditcher teeth
40	5221-24	May 16		Fielder	CAGPL	Charts and tables, organizational structure, personnel, equipment
	5264-70			Fielder		L.G.P., A.C.V. vehicles
41	5274-76	May 20		Fielder		U.S.S.R. pipelines

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46	6048-56 6104-09 6121-46	June 2	YK	Templeton Templeton Bliss	EPB, EPB	Matrices - construction vs environmental components Interaction matrix: construction and terrain Environmental impact on vegetation and air
47	6229-38	June 3		Templeton		Land interaction matrix
C-6	511-519	May 30	Hay River	Nahanni	NWT IB/MA	Map of traplines in Hay River area
C-9	774-78	June 26	F.F.	Tutcho	Citizen	Film
C-10	841-42		W. L.	J. Blondin	Citizen	Map of seismic cuts and winter roads prepared by Aquitaine Company
	910-12	June 27	F. N.	Bell	NWT IB/MA	Land use map for Fort Norman area
C-11	1052-56	July 8	F. McP.	S. Simon	Citizen	Slides presented by Sarah Simon
C-12	1067-77	July 8	F. McP.	N. Colin Bell	Citizen NWT IB/MA	Land use maps
C-13	1154-64 1210-18	July 10		S. Simon J. Ritter	Citizen Citizen	Slide presentation by S. Simon Maps, names given to locations by Laucheux people
C-14	1299-1300	July 11	O. C.	C. Charlie	Citizen	Map prepared by people of Old Crow
C-15	1474	July 12		Irving	Citizen	Aerial photograph showing caribou fences
C-16	1610-12	July 13		B. Stager	Citizen	Stazer Report; maps prepared with local names for location
C-17	1691-95	July 16	F. L.	P. Nahanni	Citizen	Map of hunting, trapping, fishing areas in Fort Liard vicinity
56	7893 7914-20 7930-33	Aug. 18	YK	Blair Blair Blair	Foothills	Slides illustrating the facilities of transmission company in B. C. Alberta Gas Trunkline, Trans-Canada Pipe Line Foothills gas pipeline system illustrated by slides Slides illustrating the diminishing Alberta reserves and leaving a potential spare capacity in the AGTL transmission lines with which to carry Delta reserves
59	8382	Aug. 21		Gillespie	Foothills	Slides illustrating Foothills route selections
51	6786	Aug. 11	WH	Hemstock	CAGPL	Slides illustrating Hemstock's evidence in-chief
53	7210	Aug. 13		Sprecker	CYI	Maps - outline of Alyeska route
54	7446-48 7459-60 7463-64 7512	Aug. 14		Banfield Weeden Weeden	CAGPL CARC	CYI map - density of human population in Yukon Maps showing the major ecosystems of Alaska; land status in Alaska; Alaskan Atlas Boundary lines and maps of political units in Alaska General ecosystems map showing the significant ecological provinces along the Fairbanks route
55	7595 7605	Aug. 15		Hughes Hughes	CARC	Physiographic map showing Yukon Territory and western part of the District of Mackenzie Terrain classification and sensitivity maps
C-18	1798-99	Aug. 5	FGH	Bell Carter	NWT IB/MA CAGPL	Land use maps - Fort Good Hope; route maps
C-19	1852-59 1871	Aug. 6		Rowe Ellwood Berger	CAGPL Foothills	Maps of Foothills and CAGPL showing borrow sources near Fort Good Hope Maps of stockpile sites in Fort Good Hope requested by Berger
C-20	1910-14 1957-62 1963-89	Aug. 7		Rowe T'Seleie A. Tobac		Description of drill sites to prepare for wharves and stockpile sites at Fort Good Hope Land use maps - Fort Good Hope area Visual display to show land use by Fort Good Hope witnesses
C-21	2143	Aug. 9	NW	M. Blondin	Citizen	Photograph

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61	8614	Sept.15	YK	Gibbs	Foothills	Slides used in Blair's testimony given as exhibits; maps submitted as exhibits
	8637			Lazerte	Foothills	Slide showing build-up of volumes
	8646			Hensch	Foothills	Slides illustrating the cost of service for the systems studied; various studies concerning pipe sizes - 36 inch, 42 inch, 48 inch
61-A	8735			Glockner	Foothills	Slides - illustrating pipe bending and pipe length
	8741			Gibbs		Slides - illustrating frost heave loading configuration
	8744-47			Glockner		Slides - illustrating overburden pressure; allowable deflections due to soil settlement; pressure distributions
63	8981	Sept.17		Lazerte		Slides illustrating compressor station design and layout
	9128			Wetterberg	Foothills	Tables showing pipe requirements for Foothills and other Canadian pipelines
	9134			Shelton	Foothills	Tables showing statistics of leaks and ruptures
64	9277	Sept.18		Yip	Foothills	Ground temperature variation at test site near Inuvik
65	9555	Sept.19		Hollingsworth	Foothills	Drainage study area maps
	9629-46			Jarvis	Foothills	Graphs showing weather records, snow availability, climatic criteria for winter roads
69	10236-68	Sept.25		Williams	MVPI	Slides illustrating Dr. Williams' evidence re: frost heave, freezing soil and pulling forces
	10405-43			Owen	MVPI	Slides illustrating conditions of the Pointed Mountain Pipeline
70	10504-53	Sept.26		Longlitz	MVPI	Slides illustrating the impact of snow roads, temporary access roads re: land use permits for construction operations
	10566-88			Lewis	MVPI	Slides illustrating river crossings, banks and slope of the Babbage and Blow Rivers
71	10646	Oct. 14		Bayly	COPE/ITC	Reference to slides used by Longlitz in his evidence-in-chief re: negligence of an operator
	10685			Longlitz		Slide used in Longlitz testimony referring to hummocks being removed and average disturbance being borderline
72	10716-17	Oct. 15		Marshall	CAGPL	Use of orthophoto mosaics to aid in hand clearing of access roads
	10725			Longlitz		Slides documenting effects of all terrain vehicles to the environment
73	10839-962	Oct. 16		Frost Heave Panel	CAGPL	Slides, graphs illustrate the Frost Heave Panel's rebuttal to Dr. Williams
74	10982	Oct. 17		Williams	CAGPL	Reference to exhibit #258
	11010			Williams		Slides re: Inuvik, frost penetration
76	11299	Oct. 21		Hughes	CARC	Permafrost map of Canada
77	11347	Oct. 22		Rutter	CARC	Figure 2 of study re four areas making up the Mackenzie Valley transportation corridor
	11380			Rutter		Research; mapping; assessment of terrain
	11411-16			Rutter	CARC	Air photo interpretation; available from Geological Survey of Canada; maps
	11418-25			Rutter		Staff and researches involved in study, preparation and analysis of air photo interpretation
	11440-41			Rutter		Maps prepared by G.S.C. in the past based on surficial information, recently uses drill hole data, subsurface information
	11453-54			Roed	CARC	Earth satellite photograph
	11460-61			Roed		Satellite photograph
	11471-88			Roed		ERTS imagery interpretation; selected air photographic interpretation; examination of National Topographic maps; slides illustrating Roed's presentation re edge of the shield route

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78	11498-11500 11509-10 11542-43 11590 11596-97	Oct. 23	YK	Roed Roed Roed Roed Roed	CARC	Glacial Map of Canada Air photographic material re east of the Franklins Route; ERTS imagery and published information Glacial map of Canada Glacial maps of Canada; ERTS imagery ERTS Mosaics
79	11682-11711 11717-31	Nov. 3		Minning Dabbs	CAGPL CAGPL	Slides on borrow operations Slides showing revegetation techniques and tests
86	12831-48	Nov.13		Claridge	Foothills	Drainage study areas, erosion
89	13492-500	Nov.18		Jakimchuk	CAGPL	Slide show, Procupine caribou herd
92	14021-22	Nov.21		Ryder	MVPI	Dr. Gunn's film, research methodology
93	14125	Dec.1		Gunn	CAGPL	Chart in prepared evidence re: bird populations
94	14301-03	Dec.2		Jakimchuk		Slides of the actual calving area; potential useage area; winter range
95	14388 14392	Dec.3		Jakimchuk Bayly	COPE/ITC	Arctic Ecology Map series by C.W.S. Mr. Jakimchuk's maps
96	14542 14560 14640-42	Dec.4		Jakimchuk Jakimchuk Jakimchuk		Map showing distribution of musk-oxen Map indicating the wintering grounds of caribou herds Map-Volume IV of report; Volume V - photographs showing caribou use of a snow road
98	14862-63 14920	Dec.8		Marshall Scott	CAGPL MVPI	Submission of maps, gas plant lines, Shell in Delta, Gulf at Parsons Lake CAGPL environmental map No. 12
99	15007 15084-86 15106-08 15177	Dec 9		Marshall Scott Bouckhout Bayly	CAGPL MVPI Foothills COPE/ITC	Filing Gunn's slides, photos as exhibit Application, 14.d.N.6.3.9, 7.5 page 9, aesthetic solutions to construction impact Environmental map series Production of Foothills environmental map series
100	15319 15333 15337	Dec. 10		Scott Scott Bouckhout		Sheet 1 of 16, Environmental Map series, Birds and Fish section Sheets 2 and 3 of 16, Environmental Map series, Birds and Fish section Orthophotomosaics used to locate existing clearings
101	15427-32 15524-25	Dec. 11		Peterson Zoltai	CARC CARC	Maps in "Mackenzie Valley and Northern Pipeline, Regional Analysis", E-S P open file 106 Terrain damage susceptibility maps, E-S P 102
102	15657	Dec. 12		Novakowski	CARC	Arctic Ecology Map Series
103	15762	Dec. 15		Anthony	CARC	Reference to E-S P reports, Biological/Engineering Evaluation
105	16128 16135-38 16149	Dec. 17		Marshall Lent Lent		Logic diagrams re: access by repair crew of major line break or washout; tasks at repair site Arctic caribou herd re: centre of habitation, calving grounds, sub-populations, cottongrass tussocks, movement Movement of caribou over pipelines
106	16172-76 16217-22	Dec. 18		Lent Calef		Slides re: impact of TAPS construction on Alaskan wildlife Slides re: post-calving aggregations; insect harassment; changes in peltage; separation of calf and mother
107	16282	Jan. 12		Anthony	CARC	Dr. Zoltai's terrain sensitivity maps
108	16566	Jan. 13		McT-Cowan	EPB	Canada Land Use Inventory maps
109	16584-89 16603	Jan. 14		Templeton McT-Cowan Templeton	EPB	EPB Atlas COPE maps of native use of the delta

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111	16910-19	Jan. 16	YK	Carter	CAGPL	Porcupine herd, "Post Calving Movements and August Dispersal" '71 - '74; calving grounds, wintering grounds
	16931-36			Ryder	MVPI	Jakimchuk's slides, Porcupine herd movements
	16950			Lent	CARC	Alaska Fish and Game Department wildlife habitat maps
	16988-17000			Davies	MVPI	Methods of corridor selection
C-24	2407-11	Aug. 23	TL	Nahanni	NWT IB/MA	Land use research; traditional hunting and trapping in the Mackenzie District, map indicating traplines, camps
	2457-65		NB	Nahanni		Land use maps re: traplines, permanent and temporary camp, population movements in the Nahanni Butte area
C-26	2661-62	Sept. 9	FS	P. Nahanni	Citizen	Map re: trapline routes and travel routes
C-27	2739	Sept. 10		Cowie	Citizen	Map re: registered traplines
C-28	2822-24	Sept. 10	Wr	P. Nahanni		Map re: Fort Wrigley trappers, routes, fur-bearing animals trapped, mammals hunted, permanent and temporary camps
C-34	3240	Oct.15	YK	Workmen	CAGPL	Map of Alaska and Mackenzie River delta re gas at Prudhoe Bay
C-39	3755-58	Feb.18	In	Bayly Usher	COPE/ITC COPE/ITC	Maps of land use by Hunters and Trappers of Inuvik, maximum extent of hunting, fishing, trapping
112	17015-31	Jan.20		Horsfield	GPC-D	Illustrating evidence on oil, gas exploration and development in Mackenzie Valley
	17035			Scott	MVPI	Request for seismic line maps as exhibits
	17038-68			Bliss	GPC-D	Illustrating evidence, overview of ecology of Mackenzie Delta
	17080-81			Bayly	COPE/ ITC	Whale utilization, Shallow, Kugmallit Bays
	17098-101			Bayly Bliss		Reindeer summer range
	17109			Bliss		Kendall Island Bird Sanctuary
114	17279			Ballem	GPC-D	Slides to be used in Mainland and Stewart's evidence
	17421			Ballem		Slides to be used in Faulkner and Serra's evidence
116	17651	Jan.24		Rempel	GPC-D-I	Maps showing areas of intensive bird use
118	18009	Jan.27		Bayly Horsfield		Seismic maps prepared by Federal Government
	18090			Horsfield		Slides of discoveries in delta and Tuk peninsula; position of Dome wells, proposed islands
119	18104-27	Jan.28		Shearer	COPE	Future developments in Mackenzie Delta area; potential, leasing arrangement, drilling record, proposed permanent facilities, possible drill hole locations, hazards of burying pipeline, oil and gas fields in Williston Basin
121	18387-402	Feb.10		Grainger	COPE/ITC	Fig. 1. Eastern Canadian Arctic annual variation in thickness of ice cover, snow cover over ice, sunlight penetration of sea water, growth of phytoplankton, nitrate utilization; Fig. 2. sunlight penetration of southern Beaufort Sea; Fig. 3. location of nitrate in sea water, utilization by plant material; Fig. 4. distribution of zooplankton in Beaufort Sea
	18462-87			Sergeant	COPE/ITC	Bowhead whale - population distribution, migration routes, winter, summer grounds; white whale in Saguenay River - herding habits; white whale in Arctic, movements in Beaufort Sea, distribution in delta, calving practices; Oil Week - cross-delta route related to Western Delta white whale concentration
122	18489-90	Feb.11		Sergeant		Distribution of whales using Reindeer Channel
	18494-95			Sergeant		Definition of whale reserve in western part of delta

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122	18524-29	Feb. 11	YK	Stirling	COPE/ITC	Slides - polar bear population movement, denning sites, feeding areas; ringed, bearded seal breathing holes, breeding habitats; foregoing related to presently leased offshore acreage, proposed well drilling sites
	18538			Stirling		Slides of several ice types
	18586-87			Barry	COPE/ITC	Map definition of Barry route proposal
123	18738-46	Feb.12	IN	Yates Elkin	MVPI MVPI	Charts - "Mackenzie Delta Regional Planning Committee Structure"; "How Delta Communities would be affected by the various options"
	18812-16			Yates Elkin		Slides - Communities - choice of options, and resulting impact on economy, employment opportunities
124	18874-92	Feb.13		Shearer		Beaufort Sea - continental shelf, longshore current sediment disposition, offshore permafrost, pingos, ice islands scouring frequencies
	18898-20			Lewis	COPE/ITC	Map - Beaufort Sea coastal zone, dominant current directions; spit at Kay Point; sand bluffs at mouth of East Channel; cliffs at Tuktoyaktuk, Shingle Point, Kay Point, two - pingo lake, tidal flats on Tuktoyaktuk peninsular; physical features of Mackenzie delta plain; Blow Delta plain, Babbage Delta; Kay Point coastal retreat; Nuneluk Spit; shoreline pressure ridge at Shingle Point
	18925			Milne	COPE/ITC	Drilling sites in Beaufort Sea, 1976
	18936			Milne		Ice movements March 11 - June 21, in Beaufort Sea
	18949-54			Milne		Oil dispersal from Canmar site # 1 in early May (1977), build-up of landfast ice during fall, winter at sites # 1, # 2
	18959-60			Milne		Figures 10-12 - interruption of Canmar relief well drilling due to ice
125	19025	Feb.14		Marshall Shearer	CAGPL COPE/ITC	Slide error re: projected CAGSL activity in Arctic
	19091-93			Pettigrew	COPE/ITC	Chart - environmental emergency risk, response capacity
126	19147-50	Feb.16		Pettigrew		Interprovincial Pipeline failure split along horizontal welded seam, Interprovincial Contingency Plan
127	19317-42	Feb.17		Longlitz	COPE	Slide presentation of maps, land use activity, seismic lines
130	19738	Mar.16	YK	Marshall	CAGPL	Location drawing, "Proposed Northern Staging Areas, Hay River, Enterprise, Axe Point"
	19762			Minning	CAGPL	View graphs included with evidence re borrow sources in Delta area
131	19872	Mar.17		Gibbs	Foothills	Map IK-0241-1001 accompanying Marshall letter March 8, 1976
132	20134-38	Mar.18		Minning	CAGPL	Maps showing granular deposits near west side, cross-Delta route; aerial photography used to find deposits
133	20178	Mar.23		Gunn	CAGPL	Using snow goose distribution maps to compare impact of different routes
134	20243-44	Mar.24		Webb	CAGPL	Photos of warm water plume, Shallow Bay
	20251-52			Gunn		Geese on North Slope, in Shallow Bay
135	20441	Mar.25		Gunn		Map, Biological Report series, vol. 30, chap. 1, p. 5, geese distribution, Delta area
	20557-58			Hemstock		Maps showing native land use of Delta
	20570-71			Webb		Photo of whale distribution, Delta area

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136	20630-35	Mar.26	YK	Sprague	MVPI	Slides of experiments on impact of oil refinery wastes on aquatic life
137	20801	Apr.5		Davies	MVPI	Slides, trade-off between families displaced and construction costs
	20882-83			Mossop	MVPI	Sport hunting in the Yukon; mining exploration activity in Mayo District
	20898-914			Simmons	MVPI	Tables, regions of Fish and Wildlife Service officers; non-native population in Yellowknife, workload increase; management studies
138	20921-25	Apr.6		Stephen	MVPI	Sea bird populations, flyways, goose and duck harvest
139	21250-62	Apr.7		Nicol	COPE/ITC	Slides - Mizushima oil spill
C-40	3816-49	Feb.23	AK	Usher	COPE/ITC	Maps of traditional areas of hunting, trapping and fishing
	3846-48			Bell Greenland	NWT IB/MA Citizen	Land use maps of traditional hunting, trapping fishing areas
	3860			Greenland		Map of area that will be drilled by Shell, hunting and trapping
C-41	4001-04	Mar.3	HOL	W. Goose	Citizen	Where families lived before moving to Holman Island
C-42	4023-25	Mar.4	SACHS	Usher	COPE/ITC	Inuit land use and occupancy maps, sponsored by ITC and DIAND
	4043			Essau	Citizen	Pointing out where caribou tangled with seismic wires was found
	4073-78	Mar.5		Rousselot	Citizen	Archaeological sites on Banks Island
C-42	4083-90	Mar.4	SACHS	Rousselot	COPE/ITC	Slides of archaeological site, utensils, implements, muskox hunt
	4118-19	Mar.5		Nasogaluak	Citizen	Land use maps
C-44	4216	Mar.8	TUK	Berger		Description of maps on wall, invitation to view them
	4230-33	Mar.9		Usher	COPE/ITC	Introduction of land use maps, report "Eskimo Land Use and Occupancy in the Western Arctic" by Usher; introduction of Paulatuk maps, land use activity on coast between Horton and Croker Rivers
C-47	4614-16	Mar.13	ARR	Berger R. Andre N. Andre	Citizen Citizen	Land use map, travelling routes and traplines
	4646-47			P. Baptiste	Citizen	Named lakes on maps for Brotherhood
C-51	5174-81	May 12	VAN	P. Chataway	Citizen	Slides of Alyeska pipeline, Alaska communities
C-52	5392	May 13	CAL	C. Osborne	Citizen	Map, No. 68, Herschel, Arctic Ecology Series, Canadian Wildlife Service
C-56	6093-97	May 19	REG	E. Maginnes	Citizen	Use of waste energy, exhaust gases, compressor stations
C-66	7622	June 7	CH	G. Webster	Citizen	Films by National Film Board, "Cree Hunters of the Mistassini", "This Land is Our Life"
C-67	7699-704	June 8	HAL	R. Rohmer	Citizen	Route that Canada's Arctic Islands gas should move, "Tundra Corridor Route to Churchill"
157	24003-08	July 5	YK	Thompson	NWT IB/MA	Pattern of ownership of petroleum resources in NWT, schematically
162	24967-74	July 13		Reesor	NWT AM	Chart, impact of in-migration of workers, transients on Communities
163	25188-91	July 14		Trusty	CAGPL	Slides, phased development approach
166	25807	July 20		Brody	COPE/ITC	Land use maps, Western Arctic
	25819			Usher	COPE/ITC	Maps on land use in Western Arctic to be made exhibits
C-68	7888-90	July 16	FP	J. Thom	Citizen	Land use research map, trappers in Fort Providence, Kakisa
170	26411	Aug. 16	YK	Elwood	Foothills	Figure 3C-1, 2, Foothills application, manpower requirements

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180	27830	Sept. 7	YK	Goudge	MVPI	"Portrait of a Pipeline", movie shown by Canadian Pipeline Advisory Council at hearing
	27846			Hodson	MVPI	"Portrait of a Pipeline", part of a northern information program by Canadian Pipeline Advisory Council
185	28561-77	Sept. 17		Schaefer	COPE	Protein and fat content of native food and imported meat resources; dental health, hemoglobin tests, glucose tests; infant health, breast feeding vs. bottle feeding, interaction between mother and child, essential relationships
	28682-83			Schaefer		Will submit prints of slides alluded to in his paper
	28701-12			Cass	COPE	Rate of myopia, increase due to change in diet in various communities
191	29739-808	Sept. 24		Hagglund	MVPI	Mackenzie River Valley transportation systems: railways, roads, air and marine services; routes, terminals, operators, traffic flow; impact of pipeline construction on each
192	29878-79	Oct 4		Baring-Gould	MVPI	Film of Valdez before impact of Alaska pipeline
	29977-78			Krauss	MVPI	Map of present status of native languages in Alaska
	36022			Veale Ritter	CYI MVPI	Language groupings in Southern Yukon to be affected by Fairbanks or Fort Yukon corridor
193	30079-108	Oct 5		Templeton Hernandez	EPB EPB	Review of 5 map sheets, recommendations from EPB Atlas, 1976
	30115-59			Doyle	EPB	Figures from report "Assessment of Environmental Protection Activities of the Mackenzie Valley Gas Pipeline Project" re construction activities
	30216			Templeton		1976 Land Use Information Series - government planning
194	30298-323	Oct. 6		Doyle	EPB	Doyle report - tables - predicted schedule of Agency activities
	30327-30			Templeton	EPB	Map - tertiary basin - high potential of having oil, gas reserves
195	30454	Oct. 7		Mirosh	Foothills	Map defining amendments to logistics plan
	30591-98			Johanson	CAGPL	Description of weld building, Prudhoe Bay - 34-inch crude, 34, 38-inch natural gas pipelines, snow pad on right-of-way, producing wellpads, 38-inch gas line to central compressor station
	30600-17			Marshall Daniels Dau	CAGPL CAGPL	Three sketches of work shelters; weather charts for Inuvik, Tuktoyaktuk, Shingle Point, Komakuk re: snow road construction, days of productivity; graph - temperature comfort zones - from Burns report
197	31067	Oct. 13		Berger		Invitation to attend Father Fumoleau's film "I was Born Here"
198	31404	Oct. 14		Scott	MVPI	Fumoleau's movie "I was Born Here"
201	31769-75	Nov. 16		Marshall	CAGPL	Slaney and Company Report - "Maps, Ice and Beluga Whale Distribution" whale sanctuary proposal outlined; map - location of delta community traplines, travel routes in relation to proposed pipeline routes
	31846			Templeton	EPB	Environmental atlas
202	31975-77	Nov. 17		Bayly	COPE/ITC	CAGPL map of cross-delta route failed to include traplines, fishing areas of people of Tuktoyaktuk

SLOPE STABILITY

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XV	1709	Mar.11	YK	Dau	CAGPL	Route selection; river crossings
	1709-11			Watson	CAGPL	Route alteration
	1728-29			Dau		PAAG Report, CAGPL's Responses re: slope stability in route selection
XVI	1780-82			Dau		Fort Simpson Route Change, stability of Ebbutt Hills
	1780-91			Gibbs	Foothills	
	1783-91			Mollard	CAGPL	
XIX	2180-84	Mar.17		Clark	CAGPL	Geothermal data; permafrost; river crossings; 3° or less - stable; special consideration for slopes over 3°; need for stabilization
XIXA	2229	Mar.17		Clark		Route selection - less than 3° slopes
	2242-44			Clark		River crossings, Great Bear River; soil strength
XX	2344-45	Mar.18		Clark		PAAG Report, 8:5
	2345-55			Morgenstern	CAGPL	Slide presentation: Concern re: slope stability; need for studies; classification system - slides, falls, etc.; slides, skin flow, bi-modal flow, self-stabilizing flow, multiple retrogressive flow; block slides; inspection of route for potential instability; slope matrix; slopes over 3°; impact of thawing; quantitative analysis; controlling of slides by maintenance; route selection; self-stabilization of slopes; vertical cuts in permafrost, wedge ice;
	2365-72			Morgenstern		PAAG Report, potential for slope failure; stabilization measures; shallow slope failures; field sampling; Cv; identification by Applicant of criteria to identify slopes with potential for shallow failure; statistical significance; retrogressive thaw flow slide; control measures; cut slopes; behavior of cuts, implications re: routing; creep in ice-rich soils, on-going studies, design methods, mechanical separation of pipe from soil
	2391			Hollingshead	CAGPL	River crossings, construction berms, potential for slope problems, Great Bear River
XXI	2414-20	Mar.19		Morgenstern		Explanation of Cv re: p.193of PAAG Report
XXIII	2693-94	Mar.21		Morgenstern	CAGPL	Construction in "environmentally acceptable manner", total ecosystem concept
	2725-27			Clark	CAGPL	Instability of pore water pressure; drainage
	2730-31			Clark		Flow, cross-slopes
XXIV-A	2904-07	Apr.7		Hardy	CAGPL	Risk stabilization
	2914					Risk of failure
XXV	3031-34	Apr.8		Hollingshead	CAGPL	Stable banks at crossings
XXVII	3320-32	Apr.10		Williams	CAGPL	Sans Sault test site, slides, erosion, climatic conditions
	3344-47			Williams		Earth flow, volume, skin flow, repairs
	3347-49			Scott	MVPI	Tests Sans Sault, measures, re-vegetation
XXVIII	3501-13	Apr.11		Scott		Permafrost areas, gravity forces/water erosion, prediction slope failure
	3514-18			Morgenstern		
	3529-30			Scott		Bimodel flow, ablations
	3552			Morgenstern		Revegetation
				Morgenstern		Considerations for instability
XXIX	3568	Apr.14		Scott		Report: stability of thawing slopes
XXXVIII	4856-57	May 14		Williams	CAGPL	Inuvik snow road, constructed on side slope
	4982			Williams		Machine vs hand clearing
XXXIX	5128-29	May 15		Harlan	CAGPL	Erosion of backfill, settlement
40	5234-35	May 16		Hurd	CAGPL	Long term instrument monitoring
42	5473-74	May 21		Hurd		Skin flow, maintenance
	5486-91			Scott	MVPI	Ground thermal regime monitors, permafrost thawing
				Hurd		
46	6102-19	June 2		Templeton	EPB	Measurement of impact, cannot estimate safety of slopes
47	6158-62	June 3		Wilimovsky	EPB	Bank erosion serious problem
59	8458-63	Aug. 21		Mirosh	Foothills	Foothills research and techniques; ground measurements, slope measurements; photographic interpretations;
				Marshall	CAGPL	bank erosion; scour; office studies
50	8542-57	Aug. 22		Gillespie	Foothills	Revision made to Foothills line to avoid steep crossing slopes at Willowlake River
				Scott	MVPI	

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51	6796	Aug. 11	WE	Hemstock	CAGPL	Maintenance programs
53	7153-58	Aug. 13		Clark	CAGPL	Geotechnical comparison of routes
54	7408-09	Aug. 14		Geist	CARC	Effect of siltation on fish
	7457			Weeden	CARC	Impact of Fairbanks, Fort Yukon Corridors
	7492-95			Weeden Berger		Fort Yukon corridor; alteration of drainage may be severe; disruption of permafrost thermal balances; thermal erosion; landslides; creeping, mass wasting, skin flows; repair
	7536-38			Parker	CARC	Soil conditions at river crossings; highway construction on unstable permafrost soils
	7568			Parker		Soils, conditions and river crossings are the major problems in construction of pipeline haul road; environmental impact
55	7603	Aug. 15		Hughes	CARC	Tintina Trench northwest of Dawson - Fort Yukon corridor - weak sandstone, large slides and earth flows
	7638-39			Morlan	CARC	Solifluction; downslope movement on low slopes
61-A	8700-01	Sept. 15	YK	Mirosh		Foothills proposed single river crossings over the Mackenzie to reduce river bank and bed disturbances
	8721			Walker	Foothills	Geotechnical studies; soil characteristics; potential for erosion; extent of permafrost and/or frost bulb growth
64	9281-84	Sept. 18		Yip	Foothills	Effects of thermal disturbance on terrain stability
	9285-86			Davison	Foothills	Terrain typed in field to designate potential stability problems
	9289-98			Davison		Studies of failed slopes; drainage and erosion problems related to slides and slope instability; retrogressive and retreating thaw slides along right-of-way
	9357			Davison		Capital cost estimates of control measures
	9362-81			Claridge	Foothills	Study of slopes along Mackenzie ; study of pipeline route; recommendations of re-routing; classification of slopes; difference between CAGPL and Foothills in classifying slopes
	9407-09			Claridge		Amount of further assessment required on slope stability along route; studies of failed slopes; contingency and corrective plans; environmental and aesthetic considerations; effects of control compounds on environment revegetation
	9439-51			Claridge		Designs for slope stability; basis of permeability and co-efficient of consolidation
65	9513-22	Sept. 19		Panel 9	Foothills	Differences between CAGPL and Foothills in approach to problem areas
	9547-57			Claridge		Problems of a warm pipeline in fine-grained soils in permafrost in slopes
66	9681	Sept. 22		Bauer	Foothills	Slopes with ice rich soil to be avoided in clearing operations
	9775-76			Mirosh	Foothills	Use of borrow material; aggregate requirements
67	9950-59	Sept. 23		Bauer	Foothills	Side hill cuts alongside right-of-way; cutting & filling of level surface; difference from CAGPL snow road proposal; angle of cut; restoration; disposal of fill
69	10355	Sept. 25		Williams	MVPI	Impact of thaw settlement on slope stability
70	10507	Sept. 26		Owen	MVPI	Pointed Mountain Line; slopes of La Biche and Kotaneelee Rivers
	10547			Longlitz	MVPI	Uncovering of ice lenses; creation of potential mud slide areas; tree cover and mat cover removed
	10559			Longlitz		Impact of use of winter access roads into the spring season; potential erosion
	10584			Lewis	MVPI	Babbage River, thermal niching, block slumping, banks composed of fine-grained ice-rich sediments
73	10947-70	Oct. 16		Clark Morgenstern	MVPI CAGPL	C sub V; evaluating slope stability; strength of soils; friction; tests; Inuvik test loop

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76	11298	Oct. 21	YK	Hughes	CARC	Thermokarst depressions; frost heave
77	11435-40	Oct. 22		Rutter	CARC	Slope failure potential on the south slope of Ebbutt Hills; construction hazards; spring run-off; frost heave; collapsed slope upon thawing; speckled bog
	11462			Roed	CARC	Studies to locate regions, erosion processes
79	11741	Nov. 3		Harlan	CAGPL	Initiation of icing at a pipeline crossing could accelerate channel migration and induce bank stability problems
80	11799-11815	Nov. 4		Clark Harlan	CAGPL	Slopes less than 3 percent considered stable; use of gravel fill; slope failure
	11825-29			Clark		Tests and instrumentation used to monitor slopes near Fort Simpson
81	11978-90	Nov. 5		Clark Harlan		Drainage problems related to slope stability; ground water
104	15935	Dec. 16		Millen	CARC	Martin River - slope failure at right-of-way
105	16009-13	Dec. 17		Millen		Protection of slopes re: erosion
109	16683-84	Jan. 14		Thomson	EPB	Stabilize slides, thaw surfaces; University of Alberta PhD thesis
115	17497	Jan.23	In	Faulkner	GPC-D-S	Niglintgak gas field, river bank erosion causing gas line rupture
116	17650	Jan.24		Rempel	GPC-D-I	Parson's Lake area, threatof all-weather road system to slope stability
	17712-16			Rempel Appleton Webb	GPC-D-G GPC-D	Troublesome terrain; surface disturbances and natural phenomenon, relationship
130	19750	Mar.16	YK	Hemstock	CAGPL	Barry's (CWS) cross-Delta route cross-areas of some stabilization concern
	19761			Hollingshead	CAGPL	River ice in Delta not very damaging to shores, banks in spring breakup
132	20008-09	Mar.18		Hollingshead		Shallow Bay, west side bank erosion, prevention alternatives
	20019-22			Williams	CAGPL	Barry route crosses Tangley Channel where banks are eroding
	20047-55			Hollingshead	CAGPL	Shallow Bay west bank erosion, prevention measures
	20095-98			Hollingshead Cooper	CAGPL	Banks of channel crossings in Delta
133	20169-73	Mar.23		Environmental panel	CAGPL	Effects of different bank erosion prevention methods on revegetation, wildlife, west side, Shallow Bay
134	20207A-10	Mar.24		Environmental panel		Various methods to construct Shallow Bay crossing to allow for west side bank erosion
135	20521-24	Mar.25		Hemstock	CAGPL	Shallow Bay crossing, west side, Reindeer and Langley channels crossings
193	30104	Oct. 5		Hernandez	EPB	Cut banks in lacustrine ice rich deposits
194	30356-57	Oct. 6		Hemstock		Interaction between oil, gas pipeline; side slope construction

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XIXA	2246	Mar.17	YK	Clark	CAGPL	Stabilization measures, design change manual
	2284-89			Clark		Talus slopes; berms
XX	2356-63	Mar.18		Morgenstern	CAGPL	Slide presentation; self-stabilization; dressing with gravel; insulation/drainage pad blanket; internal drainage; erosion protection; revegetation; organic overhang as insulation; different solutions for different problems; Great Bear River, toe berm surcharging
	2366			Clark		PAAG Report, stabilization measures for permafrost terrain
	2382-84			Clark		Creep, mechanical separation of pipe from soil
	2395			Clark		Lateral migration of rivers, bank reinforcement with gravel, rip-rap; thermal niching, bank armouring, river training works
	2398-99					
	2402			Clark		Slope stability in floods

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XXI	2421-22	Mar.19	YK	Hollingshead	CAGPL	Stabilization berm on Great Bear River
XXIII	2676-78	Mar.21		Hollingshead		Random (gravel) material for Great Bear River slope stabilization
XXVII	3331-38	Apr.10		McRoberts	CAGPL	Proposed stabilization, inhibition of slope failure
XXVIII	3502-05	Apr.11		Scott	MVPI	Solutions
	3517-20			Scott		Prediction, prevention of slope failure in permafrost regions
	3523-33			Morgenstern		Conventional/novel techniques
	3534-39			Scott		Design remedial measures
XXXIII	4370-71	Apr. 21		Dau	CAGPL	Cuts graded to conform to safe slopes
46	6134-35	June 2		Bliss	EPB	Revegetation necessary, especially at river crossing;
64	9293-98	Sept.18		Claridge	Foothills	Study of failed slopes;erosion control measures; avoidance in route selection; drainage patterns and controls
	9405-09			Claridge		Stockpiles; use of compounds; monitoring
65	9454-60	Sept.19		Claridge		Cut-back of slopes in permafrost terrain; angle of cut; dynamic loading level; seismicity; procedure in Alaska
	9588-92			Claridge		Fort Norman landslide; coefficient of consolidation; measured pore pressure; use of NES and Morganstern studies to argue resistance level of slopes to failure
	9612			Bauer	Foothills	Cutting or filling of right-of-way; grading in difficult areas deferred until construction; preventative measures
66	9692-99	Sept.22				Side slopes - requirements for borrow
	9813			Kosten	Foothills	Northerners employed in continuous control program
67	9844-53	Sept.23		Mirosh	Foothills	Scheduling; employment of northerners; use of fill or fabric mats; stabilization of slopes on permafrost
	9940-45					Slope stabilization during clearing
	9951-59			Bauer		Situation & methods when slopes to be cut; angle of slope; stabilization technique
73	10962-70	Oct. 16		Morgenstern	CAGPL	Design techniques; testing data and research; river crossings
78	11619-65	Oct. 23		Minning	CAGPL	Reading of Phase 2 evidence; erosion control measures, slope stabilization; borrow requirements, revegetation; drainage control; disturbance to active layer
79	11700-01	Nov. 3		Minning	CAGPL	Angle of slopes at borrow sites
80	11802-15	Nov. 4		Clark	CAGPL	Determining of 3 degree stability gauge, use of gravel fill for stability, depth of active layer, drainage and erosion problems
	11944-45			Clark		Pore pressure development in thawing slopes; preventative measures
82	12267-70	Nov. 6		Harlan	CAGPL	Concern re: number of pipeline induced slope failures
86	12827-48	Nov.13		Davison Claridge	Foothills Foothills	Terrain sensitivity, studies, prevention; drainage
100	15193-94	Dec. 10		Boukhout	Foothills	Kotanelee River crossing, Pointed Mountain line
103	15787	Dec. 15		Steigenberger	CARC	On rivers re: pipeline design considerations for North Yukon
193	30087	Oct. 5		Hernandez	EPB	Fill-grading techniques should be employed in ice-rich terrain

SOCIAL FACTORS RELATED TO THE PIPELINE

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XV	1666	Mar.11	YK	Dau	CAGPL	Considerations re route selection
	1706-07			Dau		Route modifications, consultants
	1715			Dau		Route relocation
XVII	1900-04	Mar.13		Bell	NWTIB/MA	Importance in route selection
				Dau		
	1910-46			Bell		Importance in route selection; communities; land use; traplines
				Dau		
	1946-57			Bayly	COPE/ITC	Considerations in route selection; distance from communities; traditional use areas
XVIII	2110-20	Mar.14		Dau		Input into route change; distance from communities; impact of compressor stations on communities and proximity to Fort Simpson, route change
				Scott	MVPI	
XXIII	2745-46	Mar.21		Hardy	CAGPL	Socio-economic guidelines, construction
XXIV-A	2881-84	Apr.7		Clark	CAGPL	Minimum adverse impact - consideration in design
XXXIV	4388-90	Apr. 22		Veale	CYI	Interests of the people of the north.
	4440-45			Dau		Gemini North, input
	4495-96			Williams		Airstrip activity, impact on local people
42	5510	May 21		Scott		Repair, true emergencies; in sensitive areas, short term vs full repair
43	5580-87	May 22		Horte	CAGPL	Input to route selection
44	5789-5812	May 23		Bell		Socio-economic factors, route selection
	5844			Bayly		Socio-economic conditions, route choice; consultants
	5873-78			Scott		Considerations involved in route selection, location
45	5883-98			Bayly		Socio-economic consultants
	5902-05			Bayly		Sociological consultants
	5926-31			Bayly		Inputs to location of pipeline facilities
	5979-90			Scott	MVPI	Process of route selection
48	6428	June 4		Templeton	EPB	Possible social section to code to control activities
50	6709-10	June 6		Horte	CAGPL	Responsibility not for construction manager
C-III	150-154	Apr.4	Aklavik	MacWatt	Citizen	Aklavik band council, planning for the future
C-5	445-446	May 29	Hay River	Vail	Citizen	Human conditions, relocation of people
56	7810	Aug. 18	YK	Horte		Cost of studies; sociological and economic work stoppages due to social and environmental factors
	7851			Horte		Sociological studies; training; costs
	7863			Horte		
58	8214-17	Aug. 20		Blair	Foothills	Study done by Foothills, sociological and economic
				Bell	NWT IB/MA	
	8237-38			Blair		Foothills social studies; pipeline route selection
				Lane	COPE/ITA	
59	8476-78	Aug. 21		Fawcett	Foothills	Foothills pipeline location, greater distance from communities, social-economic impact
60	8533-35	Aug. 22		Fawcett		Use of socio economic consultants in route selection process
				Scott	MVPI	
	8550-52			Bouckhout.	Foothills	Crossing of Willowlake River, proximity to native Community, effect on fishing
				Scott		
	8588-89			Fawcett	Foothills	Socio-economic advice; routing of Foothills line
				Hollingworth	Foothills	
52	7022-56	Aug.12	WR	Dau	CAGPL	Weight in route selection considerations
53	7060-77	Aug.13		Trusty	CAGPL	Weight given to social concerns in routing
C-23	2297-98	Aug.14		A.Cabret	Citizen	Hiring of women; need for rape crisis centres and family planning
	2310			R.McKaymie	Citizen	Need for pipeline
	2326-28			B.Bachelor	Citizen	Attitude re: resources, land in South
	2355-56			C.Taylor	Citizen	Slow development to protect human resources
	2358-61			Berger		Studies and funding of participants to investigate social impact of pipeline
	2366-68			A.Cuvret	People's Land Committee	Examples of Alaska; unique social goals of North

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C-23	2386-88	Aug. 14	WH	B.Cooper	Citizen	Attitudes and values of southern workers
	8602-14	Sept.15	YK	Stevens Garlick Cook	USWA USWA USWA	Impact on native peoples and residents of N.W.T; land claim settlements have yet to be resolved; need for goods may increase inflationary trend and its effects
62	8816-17	Sept.16		Mirosh	Foothills	Community opposition to compressor station sites
	8859			Mirosh		Pipe rupture; fire and explosions; safety measures
63	9109	Sept.17		Beer	Foothills	Areas to be identified as noise sensitive
64	9333-34	Sept.18		Mirosh		Decisions to relocate compressor stations; inter-disciplinary study of sites
67	9884-99	Sept. 23		Kosten	Foothills	Problem of influx of unskilled workers waiting for pipeline jobs
	9964-66			Mirosh	Foothills	Advantages to northerners of summer work
68	10042	Sept.24		Hushion	Foothills	Policies to be enforced by region & division offices in NWT
	10051			Hushion		Amenities Yellowknife provides for workers in administrative roles
	10668-74			Hushion		Integration of northerners into administrative centres; training;
	10195			Templeton	EPB	Channel needed for communities to lodge complaints against pipeline companies
	10225-26			Templeton		Drafting of codes acceptable to social conditions
77	11378-79	Oct. 22		Rutter	CARC	Consideration of socio-economic factors re east of the Franklins route
78	11541	Oct. 23		Roed	CARC	Edge of the shield route could be altered by socio-economic considerations
87	13105-07	Nov.14		Berger Taylor	Foothills	Aesthetics, different attitudes, wilderness
C-26	2671-72	Sept. 9	FS	G. Antoine	Citizen	Exposure of Dene to another culture or society; responsibility for problems; selfish desires, material gains
130	19737	Mar.16	YK	Marshall	CAGPL	Relocation of facilities near Fort Good Hope, Norman Wells, Fort Norman, Wrigley
137	20820	Apr.5		Davies	MVPI	Input from public, government, private sector to determine project tolerance to society
C-50	4971-72	May 11	VAN	Simmons	Citizen	Coping with cultural change
C-53	5554	May 14	CAL	Willms	Citizen	Development of any region destroys part of culture
C-55	5985-92	May 18	EDM	D. Leadbeater	"	Edmonton problems; possible impact on the city
C-60	6771-76	May 27	TOR	M. Arbour	Citizen	White incursions into native communities
166	25754-56	July 20	YK	Elwood	Foothills	Councillors necessary for employees and families
163	25143-49	July 14		Hobart	CAGPL	Social structures in communities, process of massive change
171	26591-95	Aug. 17		Dixon	MVPI	Alaska, use of information collected by Impact Information Center, methods of dissemination of information
	26600-607			Dixon		Change in political structure; capacity to handle increase in population; changes in residence patterns, family structure; air pollution; regional inflation
176	27398-400	Aug. 24		Button	COPE/ITC	CAGSL, attempted influence of native parents via children, supply of a school book
178	27706-08	Aug. 26		Runge	MVPI	Housing units generated or required as result of permanent employment

SOCIAL INDICATORS

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153	23473-81	May 7	YK	Sharp	CYI	Good and bad social effects in Ross River of Anvil Mine development
164	25349	July 15		Berger Hobart	CAGPL	Used to assess social impact; change and wage employment
171	26648-54	Aug. 17		Dixon	MVPI	Alaska, divorce, arson, robbery, drugs, prostitution, problems of what they indicate, question of other exigencies affecting the changes
	26660-68			Berger Dixon		Alaska, question of correlation between V.D. rates and prostitution, exigencies affecting correlation
	26693-96			Dixon		Methodology problems involved
172	26737	Aug. 18		Dixon		Increased juvenile delinquency, Alaska, with population growth pressures; rising mental health problems, Crisis Intervention Program
174	27697-719	Aug. 26		Runge	MVPI	Population, household and family formation as reflecting housing need
182	28245	Sept. 9		Forth	MHA/NWT	Suicide rate rose in Alaska because of pipeline development
184	28472-74	Sept. 14		Atcheson	COPE/ITC	Alcohol abuse, violence, delinquency in children, show social tension as result of rapid change
	28507-08			Atcheson		Suicide, juvenile delinquency, increases with development
185	28577-80	Sept 15		Schaefer	COPE	Alcohol-related violence and accident; venereal disease rate
	28584-86			Berger Schaefer		Comparable percentage of alcohol-related violence and accidents for Canada
	28727-32			Berger Schaefer		Rate of venereal disease, threat of increase due to development, long-term consequences; rate of gonorrhoea
186	28887	Sept 16		Snowden	COPE/ITC	Inadequacies of cost-benefit analysis techniques

SOCIAL MODELS

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167	25886	July 21	YK	Usher	COPE/ITC	Acculturation or modernization; metropolis-hinterland and colonial; processes of economic development, social change; features of the two models
	25912			Usher		Relationship between metropolis and hinterland
172	26767-70	Aug. 18		McDiarmid	Citizen (COPE/ITC)	Political model re action and attitudes of native people
	26801-06			McDiarmid		Meaning of social change conflict, development process
184	28445-51	Sept 14		Kehoe	COPE/ITC	Social learning concept of mental illness as opposed to medical model
	28480-83			Atcheson	COPE/ITC	Planned policy for development without destruction of native lifestyles, integration

SURFACE WATER

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XIX	2221	Mar.17	YK	Williams	CAGPL	Flow to be studied at Chick Lake
XXI	2481-86	Mar.20		Clark	CAGPL	Water transfer; diversion dikes, granular caps, gabions
XXII	2607016	Mar.20		Clark Slusarchuk	CAGPL	Cross drainage, berms
XXIV	2820	Apr.7		Clark		Dike to direct surface water across berm

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XXVI	3152-54 3237-40 3266-70	Apr. 9	YK	Clark Slusarchuk Scott	CAGPL CAGPL MVPI	Surface drain, berm breaks Water table at surface, faster frost heave: artesian water Thawing, water drainage, berm breaks, maintenance, surface pools, discontinuous permafrost
XXVII	3366-74	Apr. 10		Slusarchuk		Permafrost degradation, water migration, formation of ponds, rate of thawing
XXVIII	3452-58 3507-09	Apr. 11		Cooper Morgenstern	CAGPL CAGPL	Surfacing ground water Transport of sediment
XXXIX	5114-27 5135-36	May 15		Harlan Harlan	CAGPL CAGPL	Drainage and erosion Rainfall run-off, flood frequency, erosion
40	5235	May 16		Hurd	CAGPL	Fish disturbance
46	6116-18	June 2		ADAM	EPB	Drainage alteration causes geomorphic change
51	6805-06	Aug. 11	WH	Hemstock	CAGPL	Removal of water for construction and human use; water quality will be maintained by use of sewage treatment facilities and strict control of other project related sources
55	7605-24	Aug. 15	WH	Hughes	CARC	Thermokarst ponds, drainage; permafrost and ice segregation
72	10747-57 10798-812	Oct. 15	YK	Lewis Adam	MVPI EPB	Rivers, hydraulic gradient; culverts; discontinuous permafrost; mass water movements Thaw settlements; frost heave; snow roads re: manufacture of snow
73	10839-962	Oct. 16		Frost Heave Panel	CAGPL	Water flow into frozen soils; heaving pressures; shut off pressure
76	11310-34	Oct. 21		Hughes	CARC	Speckled bog, ponds and depressions; frost heave, permafrost degradation
77	11349-11442 11452-88	Oct. 22		Rutter Roed	CARC CARC	Rivers, surface drainage study; swampy depressions and ponds; flooding; drainage; speckled bogs Edge of the shield route; erosion and drainage; terrain advantage; river and water body crossings; ponding
78	11625-65	Oct. 23		Minning	CAGPL	Drainage; disturbance to active layer, permafrost, frost heave; ponding on the right-of-way, mound breaks, natural drainage patterns
79	11714	Nov. 3		Dabbs	CAGPL	Determining of erodibility rating of soils
81	11985-91 12098-114	Nov. 5		Clark Harlan	CAGPL CAGPL	Interruption of drainage patterns; mound breaks Surface water not independent at times from ground and river water; water resource and use envisaged by CAGPL
82	12293-12303	Nov. 6		Dabbs		Soil moisture and erodibility standards
83	12332-35	Nov. 7		Dabbs		Drainage control measures of surface water, Kotaneelee Valley, Pointed Mountain Pipeline
90	13698-715	Nov. 19		Dabbs		Ponding in settled areas over pipe
115	17490	Jan. 23	In	Faulkner	GPC-D-S	Niglintgak gas field, ponding due to thermokarst

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XV	1667-05	Mar.11	YK	Mollard	CAGPL	Use in route selection; use of aerial photography; terrain typing; bore-hole data
	1705-09			Dau	CAGPL	Use in route selection
	1709-11			Watson	CAGPL	Route selection; river crossings; slope instability
	1711-14			Dau		Route selection
	1728-29			Dau		PAAG Report, CAGPL's Responses re: terrain analysis and route selection
XVI	1829-46	Mar.12		Mollard Anthony	CARC	Methodology; use of data in route selection
XVII	1960-63	Mar.13		Mollard Bayly	COPE/ITC	Permafrost & Soil data; use in route selection
XVIII	2048-63	Mar.14		Scott Dau Mollard	MVPI	Final design stage; Ebbutt Hills; Mainline Route Terrain types in corridor
	2071-74			Watson		Use of design & Engineering skills to solve terrain problems
XIX	2203 2209-10 2212-13	Mar.17		Williams	CAGPL	Sans Sault test site; ditch wall sections
XIXA	2234-39 2244-46	Mar.17		Clark Clark		Re: geotechnical engineering-route selection Ground truth; test data & drilling at facility sites, river crossings etc.; detailed specifications for facilities etc.
	2250-52			Clark		On-going cataloguing of permafrost & soil conditions; data retrieval system
	2277-78			Clark		Interior route; terrain classification; seismic risk
	2290-92			Clark		Fort Simpson and Cross Delta route changes
XX	2397	Mar.18		Clark		Drilling program Fort Simpson route change to establish presence/absence of permafrost under rivers; updating drawings
XXI	2414-20	Mar.19		Morgenstern	CAGPL	Explanation of Cv re: p.193 of PAAG Report
	2424			Hollingshead	CAGPL	Bore hole data, absence of permafrost under rivers
XXII	2532-44 2573-84	Mar.20		Clark Slusarchuk	CAGPL CAGPL	Slope instability and terrain sensitivity along prime route Soil conditions affecting frost bulb, chemical grouting
	2639-42			Clark		Drill holes in Shallow Bay, frost susceptible soil, frost heave
XXIII	2705-08 2719-24	Mar.21		Clark Clark Berger		Fort Simpson route change, terrain typing Terrain typing for route location & change
	2754-58			Williams	CAGPL	Bedrock, frozen gravel & sand, excavation; blasting
	2759-61			Scott	MVPI	Route selection, bore hole data
XXV	2948 2987-90 3081	Apr.8		Genest Hollingshead Cooper	CAGPL CAGPL	Drill hole data Drill hole data, cross delta alternative Drill hole data, braided rivers
XXVI	3128-29 3154-57 3159-65 3173-74 3186-93 3231-32	Apr.9		Cooper Slusarchuk Slusarchuk Slusarchuk Slusarchuk	CAGPL	Fossil flood plain, alluvial terrace Terrain analysis maps re frost heave Speckled bog, peat, water table, silty till Speckled bog, bore holes for ditches Frost susceptible soils, silt and clay - classification
XXVII	3278-79 3284 3293 3304-08 3330-38 3339-42 3351 3397 3419	Apr.10		Clark Williams Williams Williams McRoberts McRoberts Slusarchuk Slusarchuk Slusarchuk	CAGPL	Drill holes, Swimming Point Drill holes, Mackenzie Valley Oil Pipeline Soils drilling, terrain units, test sites Sans Sault, variation, terrain types Sans Sault test site, slope, peat content Drilling, angle of incline, moss cover, ice content Trees, moss, permafrost Soil types, thermal conductivity Bore holes

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XXVIII	3445-48	Apr. 11	YK	Cooper	CAGPL	Bedrock, shallow aquifer
	3456-58			Clark	CAGPL	Geophysical surveys - resistivity, seismic
	3491			Clark		Geophysical applications
	3524-25			Morgenstern	CAGPL	Gravel, peat, thawing slopes, glacial lake basins, soils
	3537			Morgenstern		Physiographic terrain types
XXIX	3565-67	Apr. 14		Williams	CAGPL	Terrain units re: blasting
	3590-3621			Clark		Bore holes, bed core and chip samples, temperature probes
	3654			Purcell	CAGPL	Soil information to design foundations
XXX	3726	Apr. 15		Price	CAGPL	Overlying soils
	3739			Price		Northern marine environment
	3749			McMullen	CAGPL	Topography, communications system
XXXIII	4316	Apr. 21		Williams		Topography, angle of repose
	4335-36			Dau	CAGPL	Orthophotomosaic maps
	4341-42			Williams		Muskeg - encourage frost penetration
XXXIV	4375-76			Marshall	CAGPL	Additional pipeline topography
XXXV	4605-08	Apr. 23		Williams		Silty sand causes difficulty for ditchers
XXXVII	4710-12	May 13		Williams		Muskeg, route east of Fort Simpson
	4735			O'Rourke	CAGPL	Alluvial meander plain, Fort Simpson to Fort Good Hope
XXXVIII	4823-28	May 14		Bayly	COPE/ITC	Ground cover, vegetation
	4843			Lucas	CARC	Borrow sources
	4848			Lucas		Final location of areas requiring buoyancy control
	4857			Dau		Surveys, slope information
	4880-86			Berger Williams		Fort Good Hope - discontinuous permafrost south; Terrain types
	4888			Lucas	CARC	Frozen terrain, high ice content, north of 60°; bog, fen areas
	4911-13			Lucas		Spoil material on snow road
	4978-88			Williams	CAGPL	Wet areas near Mackenzie Crossing on Fort Simpson route change
	4992-98			Williams		Hummocky areas
XXXIX	5076	May 15		Williams		Backfill siltation - amount retained dependant on grain size
	5110-22			Dau	CAGPL	Terrain units to define areas for construction methods
	5114-18			Harlan	CAGPL	Erodable soils categories
	5131-39			Harlan		Erosion sensitive soils - backfill revegetation
	5150-53			Harlan		Row cuts in hillsides - drainage problems
40	5194	May 16		Fielder	CAGPL	U.S.S.R. pipelines located in flood plains, discontinuous permafrost
	5234-35			Hurd	CAGPL	Slopes, drill holes
	5252			Hurd		Sensitive areas, use of aircraft to minimize ground traffic
41	5273	May 20		Scott	MVPI	Physical environment of on-shore portion, Mackenzie Delta
	5309			Hurd		Mountainous areas, flat rolling areas
42	5429-30	May 21		Fielder		U.S.S.R., drill holes
	5496			Hurd		Soil types, ice content
46	6076-77	June 2		Craik	EPB	Disturbance studies
	6101-19			Adam	EPB	Surface and slope stability
50	6639-40	June 6		Horte	CAGPL	Important consideration in route selection, DPW drilling
59	8336-37	Aug. 21		Mirosh Gibbs	Foothills Foothills	Terrain typing, geotechnical research; south of Fort Simpson crossing
	8347-48			Fawcett Gibbs	Foothills	Research and consultant firms; restrictive terrain features, right-of-way width; transportation systems
	8362-75			Drew	Foothills	Terrain typing, features; thermokarst depressions; peat; ground-ice; air photos; photo mosaics; terrain sensitivity; ground truthing; prime route
	8387-88			Drew		Foothills winter drilling; soil and permafrost conditions

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59	8392	Aug. 21	YK	Mirosh Marshall	Foothills CAGPL	Foothills drilling re Fort Simpson route change
	8425-29			Gillespie	Foothills	Foothills route; drilling, high ice content soil, sensitivity
	8440-41			Bouckhout Marshall	Foothills	Drilling plans; borrow material and quality
	8442-56			Drew Marshall	Foothills	Foothills photo-geological and terrain sensitivity interpretation re Mollard's terrain sensitivity rating
	8463-67			Fawcett	Foothills	Foothills research and techniques; Great Bear River crossing; slump block or large former landslide area; eroding river banks; old slope failure
60	8536-42	Aug. 22		Drew		Field verification of terrain typing; sensitivity; adjustments; filing of terrain type mosaics
	8560-69			Gillespie Scott	MVPI	Test hole information; soil analysis; crossing sites; drilling
	8572-77			Bouckhout		Drilling; Yellowknife-Pine Point community supply lateral
	8585-88			Drew		Terrain sensitivity; open-file maps, community supply laterals
	8589-91			Fawcett Hollingsworth	Foothills	Terrain typing; sensitivity analysis
51	6790-91	Aug. 11	WH	Hemstock	CAGPL	Study as to slope stability erosion, ice content soil
52	6815-25	Aug. 12		Clark	CAGPL	Data available from other pipeline companies
	6889			Banfield	CAGPL	Availability of soil sampling studies
	6943			Clark		Consideration of permafrost & mountainous terrain in route selection
	7022-56			Dau Hemstock	CAGPL	Coastal & interior routes through the Yukon
53	7156-58	Aug. 13		Clark		Ft. Yukon & Fairbanks corridors ranked geo-technically
53A	7311-14			Leonard	CARC	Unique terrain of Arctic Wildlife Range
	7362-63			Geist	CARC	Productivity of Yukon terrain
	7375-78			Geist		St. Elias Range - Caribou use
54	7485	Aug. 14		Weedon	CARC	Interior route re topographic features
	7510-15			Weedon	CARC	Fairbanks Corridor; topographic description of the terrain along the route path; areas of continuous and discontinuous permafrost
	7560-63			Parker	CARC	Borrow availability; Brooks Range; Anaktuvuk Pass; width of right-of-way for gas and oil pipelines; soil conditions
55	7595-7623	Aug. 15		Hughes	CARC	Description of the Yukon coastal plain, Yukon plateau, Porcupine Plateau; Mackenzie Delta; Peel Plateau, Peel Plain; Anderson Plain; glacial features; mountain ranges; soil types; ice content soils; studies and research central Mackenzie Valley; thermokarst ponds and depressions; glacial deposits
C-19	1861-70	Aug. 6	FGH	J. Louison	Citizen	Applications to determine soil types near Ft. Good Hope
C-20	1910-14	Aug. 7		Rowe	CAGPL	Application by NES to drill at Fort Good Hope to investigate wharf & stockpile sites
	1932-35			Carter	CAGPL	CAGPL to make new application for land use permit at mouth of Hare Indian River
	2028			E. Kakfwi	Citizen	Impact of seismic work
	2058-59			A. Rabisca	Citizen	Impact of cut lines
C-22	2234-35	Aug. 11	WH	A. Wright	Citizen	Route north of 60° not difficult
C-23	2379	Aug. 14		D. Taylor	Citizen	Drainage & erosion caused by roads & vehicle tracks; effects on mosquitoes
61	8645-46	Sept. 15	YK	Hensch	Foothills	Location of compressor stations arrived at by means of studies, aerial photography, field reconnaissance, office studies; elevation data, hydraulics studies
61A	8702-09			Mirosh	Foothills	Soil studies; permafrost areas; river crossing; soil stability; mathematical modeling

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62	8767-71	Sept.16	YK	Mirosh	Foothills	Right-of-way width; drill hole data; geothermal models; research and studies; Foothills consultants; Frost heave
	8848-54			Mirosh		Ice rich soils south of Fort Simpson; frost heave work and studies; erosion control; soil stabilization, revegetation after construction
	8868			Mirosh		Drill information and borrow inventory information
63	8992	Sept.17		Lazerte	Foothills	Swampland; water systems re release of treated sewage
	9005			Beer	Foothills	Terrain, especially rolling countryside, will impede compressor station noise; canyon and valleys will contain noise
	9038			Lazerte		Success rate of drilling wells in permafrost & ground ice
	9092-94			Beer		Vegetative cover as an attenuation of noise from compressors & blowdowns
	9103			Beer		Tree growth a significant parameter of compressor sound attenuation
	9147-48			Holtsbaum	Foothills	Effects of soil types on corrosion
64	9247-51	Sept.18		Holtsbaum		Flow current of cathodes & resistance of the soil
	9277-82			Yip	Foothills	Studies of ground temperature changes at test site near Inuvik; causes of frost heave
	9285-86			Davison	Foothills	Field studies of terrain; different approach from
	9329			Mirosh		Further testing of compressor sites & possible relocation from permafrost areas
	9354-59			Davison		Air photo interpretation as opposed to field studies; preparation of cost estimates
	9403-09			Claridge Mirosh	Foothills Foothills	Further studies of slopes along route
	9426-34			Claridge Mirosh		Vegetation as a clue to flooding; stream bed character & frost bulb
	9437-51			Claridge		Effects of permafrost & ground ice on pipeline pressure
65	9452-94	Sept.19		Panel 9	Foothills	Geotechnical evidence - cross-examination
	9510-85			Panel 9		Differences in approach to terrain problems between Foothills & Arctic Gas
	9590			Claridge		Slide & slope stability studies using piezometer
	9641			Jarvis	Foothills	Preparatory work for snow roads; swampy terrain
66	9660-61	Sept.22		Mirosh		Clearing schedule in permafrost areas
	9674-99			Bauer Mirosh	Foothills	Advance clearing; permafrost areas exposed pre-construction; geotechnical studies; slope stability
	9705-07			Jarvis		Use of frozen soil for winter roads; measurement of snow levels
67	9839-40	Sept.23		Templeton	EPB	Removal of nitrogen from soil caused by woodchipping machine
	9844-52			Mirosh		Borings north of Norman Wells show sensitive silty permafrost soil & ice lenses northward; clearing; difficulty of slope stabilization
	9856			Templeton		Terrain degradation in past from summer construction on permafrost
	9931			Mirosh		Studies of thaw periods on terrain
	10027			Jarvis		Depth of frost penetration necessary for snow roads, hauling
68	10048-49	Sept.24		Hushion	Foothills	Boundary line between terrain similar to Northern Alberta & uniquely northern terrain
	10124-29			Mirosh		Transport of fuel by tanker to Tuk
	10148			Dau	CAGPL	Terrain alignment sheets given to contractors
	10229			Templeton	EPB	Need for graphic illustration of environmental & terrain conditions

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69	10250	Sept.25	YK	Williams	MVPI	Frozen soil; shut-off pressures; frost heave
	10259-63			Williams		Shut-off pressures, soil temperatures; soil types ground water level; highway construction techniques
	10382-83			Owen	MVPI	Topography along the Pointed Mountain Pipeline route; soils, river channels, permafrost, drilling, drainage
70	10503	Sept.26		Owen		Mapping surficial geology prior to construction of St. Lawrence Seaway; Westcoast Lines
	10513			Owen		Permafrost areas; borrow pits; drilling and oil exploration activities
	10517			Owen		Areas of permafrost; land clearing
	10518-23			Owen		Pointed Mountain Line; swampy ground; permafrost drilling; ponding; ice lenses
	10532-34			Owen		Clearing of right-of-way; test borings re: soil types, surface materials
	10559			Longlitz	MVPI	Use of winter access roads into the spring in timbered and non-timbered areas; slope erosion, channeling of water off road into vegetative mat
	10560-63			Longlitz		Impact of vehicles on various terrain types - swampy, boggy and wet areas; rutting
	10567-88			Lewis	MVPI	Delta area, bank and slope stability of Babbage, Blow and Firth Rivers; ice slump, channel characteristics
	10592-93			Lewis		Recommendations re: a drilling program to identify all streams with significant ground water flow; input data into the Battelle model; testing of culverts in the field
72	10771-76	Oct.15		Lewis	MVPI	Sub-riverbed materials re: Blow and Malcolm Rivers; geophysical investigations; drilling; seismic refraction data; drainage basins of Babbage River and Deep Creek; river discharges; water levels; bed scour, bank erosion; aeolian deposits; Alaskan river data
	10781-87			Adam	EPB	Thaw settlement re: Willowlake River, Saline River; drill holes and ice content; reports; frost heave
	10799-812			Adam		Bole hole data; presence of ground ice; snow roads
73	10828-29	Oct.16		Morgenstern	CAGPL	Thaw settlement; frost heave; ice rich terrain; soil/pipe interaction; pipe design
74	10974-11024	Oct.17		Williams	CAGPL	Soil types; frost penetration depths; length of time on which a snow road could be operated; drill hole data; gravel pits; continuous and discontinuous permafrost zones
75	11082	Oct. 20		Parker	CARC	Continuous and non continuous permafrost areas; reports and studies; frost heave
76	11146-55	Oct. 21		Parker Weeden	CARC	Alyeska pipeline; soil and hydrology data; knowledge of the corridor
	11181-82			Parker Weeden		Seeking thaw stable soils, environmental safety
	11245-46			Parker Weeden		Route change; soil conditions, availability of borrow
	11257			Weeden		Areas of use by caribou through the year
	11298			Hughes	CARC	Thermokarst depressions; soil sensitivity, terrain types
77	11346-11442	Oct. 22		Rutter	CARC	Reports and studies; surficial deposits, distribution of permafrost and ground ice, physiography, mapping of terrain; geology and geomorphology of the Mackenzie Valley; organic deposits; terrain hazards re pipeline routing; better terrain east of the Franklins; Ebbutt Hills; drumlins provide gravel sources; fluting edges re pipeline route
	11452-88			Roed	CARC	Edge of the shield; fluted moraines; terrain advantages; river crossings
78	11504-23	Oct. 23		Roed		Non-biologic resources; terrain sensitivity; fluted moraines
	11539			Roed		Amount of ice content in soil; permafrost zone; discontinuous permafrost re edge of the shield route

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78	11611-74	Oct. 23	YK	Minning	CAGPL	Reading of phase 2 evidence; studies in a general nature which CAGPL undertook to support application re terrain sensitivity, route selection, permafrost and ground ice locations; geological and soil research; borrow sources, restoration and revegetation
79	11684-11711	Nov. 3		Minning		Borrow sources; terrain conditions meriting various borrow operations and environmental precautions
	11739-40		Harlan	CAGPL	Combined drilling and geophysical programs planned in area of Firth River and Alaska	
	11744		Minning		Borrow sites with respect to alluvial fans, terraces and active flood plains	
	11745-52		Dabbs	CAGPL	Route divided into three zones according to vegetation	
	11757-60		Minning		Removal of borrow from flood plains; esker composition	
80	11779	Nov. 4		Dabbs	CAGPL	Tundra rehabilitation research
	11801-15		Clark	CAGPL	Determination of 3 degree slope stability gauge	
	11814-47		Harlan Clark	CAGPL	Program carried out to determine slope stability; prediction of potential frost heave areas	
	11816-18		Harlan Clark		Field program to assess thaw settlement and frost heave potential of soils	
	11828-30		Clark		Route modifications	
	11840		Minning	CAGPL	Removal of borrow from active flood plains	
	11843-47		Harlan		Proposed classification system of erodibility and drainage	
	11849-50		Hemstock	CAGPL	Avoidance of sensitive areas	
	11864		Hemstock		Comparison of former and new route at Fort Simpson	
	11914-17		Minning		Development plans for borrow sites to include resotration details	
	11928-29		Clark		Effect of snow roads on terrain	
81	11975	Nov. 5		Harlan		Studies planned to investigate sources of springs and ground water activities along route
	11990-91		Clark Williams	CAGPL	Possible relocation of compressor site at Thunder River because of terrain conditions	
	12043-59		Minning		Drilling to update assessments of granular material and supply	
	12067-12135		Minning		Comparison of Mollard's current estimates of granular resources in various locales	
	12074-77		Dabbs		Quantity of organic material in fossil flood plain	
82	12165	Nov. 6		Minning	CAGPL	Borrow from flood plains and bedrock in coastal and interior routes respectively
	12187-88		Clark	CAGPL	Seven percent proposed alignment on slopes greater than three degrees	
	12203-04		Dabbs	CAGPL	Description of borrow sources in Canadian segment (bedrock, flood plains)	
	12293-12303		Dabbs		Soil moisture content and drainage, erodibility rating	
83	12335-48	Nov. 7		Dabbs		Tundra mat communities
	12351		Scott Hemstock	MVPI CAGPL	Some borrow sites good for mammal denning	
	12361-439		Environmental Panel	CAGPL	Location of available borrow material, quarries; bedrock; Thunder River borrow source types; pit 147 on flood plain; spread C	
	12443-65		Scott Environmental Panel	CAGPL	Gravel mining, North Slope rivers, active flood plains and channels	
85	12640	Nov. 12		Harlan	CAGPL	North Slope rivers, drilling information
	12717-20		Scott Environmental Panel	CAGPL	River crossings	

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85-A	12785	Nov.12	YK	Scott McCart	MVPI CAGPL	Riverbed gravel permeability, soil types
86	12807-08 12817-48 12876-77 12882-83 12897-99 12902-15 12985-88 13037-48	Nov.13		Williams Drew Davison Claridge Lawrence Taylor Drew Bouckhout Lawrence Williams	CAGPL Foothills Foothills Foothills Foothills Foothills Foothills Foothills CAGPL	Alternative borrow sites, mileposts 356.9 and 534 Terrain sensitivity ratings aid to design; slope stability; drainage; siltation Soil stability, sewage ponds, site location Aesthetic considerations Borrow material availability, community laterals Borrow locations, active flood plains, upland sites Sewage disposal, swampland, treed areas Snow road construction, Fort Simpson spread, muskeg areas, permafrost
87	13060-70 13080-85 13092-93 13164-70 13180-93	Nov.14		Drew Bouckhout Davison Reeves Berger Reeves Reeves Claridge Drew	Foothills Foothills Foothills Foothills	Terrain sensitivity, Parsons Lake; gravel sources Mackenzie Valley Likely archaeological sites, pipeline route Archaeological importance, unglaciated areas of Yukon, Mackenzie Valley Archaeological surveys Terrain sensitivity, usefulness, applications
88	13223-34 13262-72 13291-305	Nov.17		Bouckhout Drew Reeves Bouckhout Taylor		Terrain sensitivity ratings, uses, route selection Locations of archaeological sites, aerial photos, etc. Aesthetics used for route selection; local views
89	13541	Nov.18		Dabbs	CAGPL	Terrain stability due to vegetation
90	13575-77 13643 13706-15	Nov.19		Dabbs Hemstock Dabbs	CAGPL CAGPL	Different terrains need different revegetation mines Sensitive terrain for oil pipeline Soil fertility, settlement before revegetation
96	14687	Dec.4		Jakimchuk	CAGPL	Description of the soils in the Old Crow Flats area
98	14908-11	Dec.8		Gunn	CAGPL	Bottom sampling, Shallow Bay
101	15447-57 15460-72 15490-99 15521-31 15533-41	Dec. 11		Zoltai Zoltai Zoltai Zoltai Zoltai	CARC	Terrain - vegetation, permafrost studies, Mackenzie Valley, Yukon North Slope; disturbance interrelations; hazards; ponding; terrain protection; palsas; construction methods; fens Hummocky terrain; areas to be avoided in route selection; potentially hazardous areas; Ebbutt Hills; North Yukon routes; further research needed Area of fenland, mileposts 260-300, 640-680; CAGPL's estimates Cross-delta route hazardous terrain; avoidance of certain areas; damage susceptibility ratings; groundwater areas; burnt-over areas; abandoned CNT line Effect on unfrozen fens, Foothills line; groundwater movement problems, locations
107	16296-97 16212-14	Jan. 12		McT-Cowan Templeton	EPB EPB	Interior Route part of a large biome; Coastal Route part of a unique biome; impact of fuel spills Ebbutt Hills, permafrost; Shallow Bay; erosion
108	16433 16490-91	Jan. 13		McT-Cowan Adam		Interior Route crosses mountain ranges; unique biomes - coastal area Peatlands south of Fort Simpson; freezing time; construction scheduling

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TERRAIN INFORMATION

<u>Volume</u>	<u>Page</u>	<u>Date</u>	<u>Location</u>	<u>Speaker</u>	<u>Agency</u>	<u>Subject Matter</u>
112	17038-57	Jan.20	In	Bliss	GPC-D	Information on various parts of Mackenzie Delta and area
114	17280	Jan.22		Mainland	GPC-D-I	Taglu gas field, geology
	17313-15			Mainland		Reasons for different drilling systems of Shell, Imperial in Delta are geological
	17329			Mainland		Taglu gas field, choosing sites for facilities
	17378-80			Mainland		
				Bayly	COPE/ITC	Geopressure, zones, possibility in Delta area, concerns
	17388			Scott	MVPI	Taglu gas field terrain similar to trunk pipeline terrain across Delta
	17394			Mainland		Taglu gas field, boring still to be done around dock sites
	17425-26			Faulkner	GPC-D-S	Niglintgak gas field, geology
115	17465-77	Jan.23		Serra Faulkner	GPC-D-S	Niglintgak gas field, possibility of basin subsidence; control; difference between Gulf, Shell, Imperial gas fields
	17536			Stamberg	GPC-D-G	Parsons Lake gas field, geology
	17546			Stamberg		Parsons Lake gas field, gas plant site
	17557			Stamberg		Parsons Lake gas field, nature of reservoir determines drilling techniques
	17582-84			Stamberg		Parsons Lake gas field, terrain instability; compared to Prudhoe Bay
116	17649	Jan.24		Rempel	GPC-D-I	Taglu, Niglintgak, floodplain, low potential for slumping; Parsons Lake, higher slumping potential
124	18904-14	Feb.13		Lewis	COPE/ITC	Beaufort Sea coastal zone-cliff form composition potential as harbour sites, thermokarst lakes - development, entrapment of oil; spits, barriers - location size, development, potential as borrow material sources; Mackenzie Deltal plain - physical features, thaw consolidation - impact on delta pipeline; coastal retreat, impact of sediment extraction
125	19069-77	Feb.14		Lewis		Sediment compact in Shallow Bay; permafrost distribution in delta, thaw zones
130	19743-46	Mar.16	YK	Williams	CAGPL	Travaillant Lake, Thunder River areas; soil drilling riverbed profiles, cross-Delta route
	19755-59			Hollingshead	CAGPL	Geology of cross-delta route terrain, soil, ground ice, etc.; test drilling
	19788			Gibbs	Foothills	Flat terrain of cross-delta route, homogeneous soils
	19817			Hollingshead		Consistent soil, composition across delta, silt and sand
131	19893	Mar.17		Hollingshead		Contour of bottom, Langley Channel crossing
132	20016-17	Mar.18		Williams	CAGPL	Studies done in locating cross-Delta route
	20058-77			Cooper	CAGPL	Contour of bottom, Shallow Bay, holes in bottom
	20087-94			Cooper		Contour of bottom, Middle Channel crossing, Delta
	20132-40			Clark Minning	CAGPL CAGPL	Test drilling, Travaillant Lake area; test drilling, use of aerial photography for supply data of granular material in Delta, estimates
133	20139	Mar.23		Dabbs	CAGPL	Delta terrain
	20160			Rowe	CAGPL	Delta terrain
	20185-86			Dabbs		Terrain crossed by alternative cross-Delta routes, preferences for revegetation
194	30356-57	Oct. 6		Hemstock	CAGPL	Side slope construction
	30425-27			Lipsett	MVPI	Relationship between terrain type - oil pipeline burial, elevation

TERRESTRIAL ECOSYSTEMS

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46	6092-93 6140-41	June 2	YK	Templeton Bliss	EPB EPB	Ecosystem approach to writing impact report Vegetation susceptible to burning
47	6190-93 6195-6227 6264-75	June 3		McT-Cowan McT-Cowan McT-Cowan	EPB	Need for Wildlife management Potential harmful impact - 13 mammals Inter-relation with elements in ecosystem
48	6388-95	June 4		McT-Cowan		Sec 14 & 15 of Code: protective restrictions
C-17	1710-11	July 16	F. L.	P. Gardner	Citizen	Trapping areas, complex ecosystems
59	8395	Aug. 21	YK	Bouckhout	Foothills	Travallant Lake, Thunder River areas; Foothills route change environmental issues and impact
51	6878-81	Aug. 11		Banfield	CAGPL	Disturbances of a second pipeline; expected disturbances of gravel withdrawals; noise, air pollution; Brooks Range; Cumulative effects of a gas and oil pipeline in one area.
52	6888	Aug. 12	WH	Banfield	CAGPL	Effects of snow roads on biotic environment
52	7004-09			Banfield		Biotic productivity of the Arctic environment
53	7098	Aug. 13		Banfield		Productivity rate of tundra & southerly vegetation
53A	7359-75			Geist	CARC	Vegetative needs of caribou herds - productivity of northern plant system
54	7407-48 7457 7490-91 7498-99	Aug. 14		Geist Weeden Weeden Weeden	CARC	Soil stability; caribou energy budget; Dall sheep; adaptation to human activities; herd size; impacts of alternative corridors and routes Impact caused by Fairbanks, Fort Yukon corridors Fort Yukon Corridor; major ecosystem of Alaska; Bottom Land Spruce - Popular Forest; Lowland and Upland Spruce - Hardwood Forest Fort Yukon Corridor; seasonal change, seabirds as important links between terrestrial and marine ecosystems
55	7652-67	Aug. 15	WH	Banfield	CAGPL	Caribou, polar bear; impact environmental; fish and waterfowl; research, studies, institutions
C-23	2304-05			D. Greg	Citizen	Delicate balance of north
67	9839-40	Sept. 23	YK	Templeton	EPB	Removal of nitrogen from soil by wood chipping machines
75	11048-49 11128-29	Oct. 20		Weeden Weeden	CARC	Characterization of an ecosystem; vegetation, soil, climate and historical aspects Impact on environment, potential damage, effect on wilderness character of the area re route choice
79	11712-31 11714-17 11744-75 11785-11802 11951-55	Nov. 3		Dabbs Dabbs Dabbs Dabbs Dabbs	CAGPL	Direct evidence on revegetation techniques to be employed by CAGPL Determining of soil erodibility rating Replacement of vegetation by sod technique Capability of various seed mixes; drainage and erosion problems and vegetation; effects of dead vegetation - fire hazard Pioneering, native and agronomic species; aquatic species; aquatic species; impact of ponding
81	11968-71	Nov. 5		Dabbs		Relationship of caribou and small mammals on reseeded areas
82	12270-75 12306-10	Nov. 6		Hemstock Dabbs	CAGPL	Avoidance of change in vegetative cover of great concern; drainage and erosion controls Plant growth over chilled pipeline
88	13325-38	Nov. 17		Vaartnou	Foothills	Revegetated areas should be self-supporting systems
89	13431-33 13516-26 13531-70	Nov. 18		Gunn Banfield Dabbs	CAGPL CAGPL CAGPL	Possible long-term damage to bird populations Impact assessment, Arctic ecosystems Revegetation, arctic plant ecosystem
110	16745-47 16815-17	Jan. 15		Bergerud Bergerud Calef	CARC CARC	Caribou are the influent herbivore; tie the ecosystem together; changes in the ecosystem; introduction of other mammals, disease and predators Relic populations - impact of a pipeline on the North Slope; caribou are the influent organism

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TERRESTRIAL ECOSYSTEMS

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111	16935	Jan. 16	YK	Bergerud	CARC	Man changing food chain through garbage dumps, etc.
112	17079-80 17104-08	Jan. 20	In	Bliss Bliss	GPC-D	Great diversity of species in Delta Importance of horsetail plant to Delta ecosystem; research needed
122	18532-33	Feb. 11		Stirling	COPE/ITC	Dependence of Arctic fox on uneaten seal meat left by polar bears

TEST SITES AND FACILITIES

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XIX	2194-95	Mar. 17	YK	Clark	CAGPL	Description, purpose				
	2195-2217			Williams	CAGPL	Sans Sault test facility verification of chilled gas concept; slide presentation - description of site & experiments etc.				
	2217-24			Clark		Sans Sault, Norman Wells, Prudhoe Bay sites; results; Calgary; Chick Lake; costs of construction, operation				
XX	2315-41	Mar. 18		Slusarchuk	CAGPL	Slide presentation Calgary test facility; frost heave study; apparatus used; discussion of experiments - water supply, burial depth overburden pressures and results; application of test results, predictions; study reports				
XXII	2576-99	Mar. 20		Slusarchuk		Frost bulb, frost heave in non-permafrost terrain, berm drainage, chilled gas in unfrozen ground				
	2616-23			Williams Slusarchuk						
XXIII	2734-35	Mar. 21		Clark	CAGPL	Chick Lake, movement of sub-surface water, icings Frost heave program, research funding				
	2746-50			Hardy						
XXIV	2855-57	Apr. 7		Williams		Sans Sault - vegetation on berm				
XXVI	3137	Apr. 9		Slusarchuk		Calgary - predicting heave				
	3151			Slusarchuk		Calgary - remedial measures				
	3186-93			Scott		Calgary silt - frost susceptible				
	3201			Scott		Calgary, frost heave solution				
	3206			Scott		Ice lensing, testing in laboratories				
	3231-70			Scott Slusarchuk		Calgary, frost susceptible soil, 40 feet pipe lengths, one year duration, watertable, frost heave above pipeline				
	3271-72			Scott Clark		Lack of testing, aquifer through frost bulb in discontinuous permafrost				
	XXVII			3280-94		Apr. 10		Scott Williams Hollingshead	CAGPL	Arctic test facilities, buried chilled pipeline, permafrost site selection, Prudhoe Bay, Sans Sault, Norman Wells
				3295-3302				Williams		Sans Sault, terrain types, location, soil information
				3303-3313				Williams		Site selection, Sans Sault, terrain types, thaw and surface settlement
3314-3319		Scott	MVPI	Sans Sault, buried/elevated test sections, coating deterioration						
3320-3346		Scott		Sans Sault, slope stability, buried pipe						
3347-49		Scott		Sans Sault, slope stability						
3361-63		Williams		Norman Wells, re-vegetation						
3369		Slusarchuk	CAGPL	Calgary, Sans Sault, water pools, permafrost degradation						
3373-75		Williams		Winter road Sans Sault, snow road Inuvik						
3398-3409		Williams		Norman Wells, geothermal analysis						
3415	Williams		Sans Sault, ground temperatures							
XXVIII	3520	Apr. 11		Morgenstern	CAGPL	Sans Sault, slope stability				
XXIX	3564	Apr. 14		Slusarchuk		Heave at Calgary site				
	3566-67			Williams		Sans Sault - letter from Mollard				
	3632			McRoberts		CAGPL	Prudhoe Bay - flooded backfill			
	3676			Reid		CAGPL	Norman Wells - warm water testing, thaw bulb			
XXX	3740	Apr. 15		Purcell	CAGPL	Sans Sault, Prudhoe Bay				
XXXI	3897-99	Apr. 16		Purcell	CAGPL	Field bends, prefabricated bends, fittings, river crossings				
				Price						

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XXXIII	4306-22 4345-52	Apr. 21	YK	Williams Williams	CAGPL	Snow road research project - Inuvik Ditching machines - Sans Sault, Churchill, Gillam
XXXIV	4487	Apr. 22		Dau		Snow road, Inuvik, Sans Sault
XXXV	4605-14	Apr. 23		Williams		Sans Sault - ditchers - continuous use, soil, etc
XXXVII	4770	May 13		Williams		Sans Sault, exemption for long working hours, Territorial Government
XXXVIII	4823-28 4855-56 4880-86 4893 4912-13 4954 4982 4999	May 14		Bayly Dau Williams Dau Lucas Williams Goudge Williams	COPE/ITC CARC MVPI	Inuvik snow road, ground cover, vegetation; burning, chipping Inuvik snow road, slope stability Sans Sault, ditching in permafrost Inuvik, Arctic Construction techniques Snow road tests Testing 25 miles, Fort Good Hope Sans Sault, slope failure Norman Wells, Inuvik, testing snow roads at end of winter season
XXXIX	5028-32 5066-67	May 15		Williams Williams		Inuvik - snow making machine Snow road testing
40	5196-97	May 16		Fielder	CAGPL	U.S.S.R. no test sites prior to design and construction
41	5277-79	May 20		Fielder		U.S.S.R. pipeline
42	5428-30	May 21		Fielder		Sans Sault, pipe length
43	5637	May 22		Horte	CAGPL	Norman Wells, Prudhoe Bay area
46	6069 6073 6128-37	June 2		Craik Craik Bliss	EPB EPB	Data on successful plant species for revegetation Reseeding to prevent subsidence Snow cover to avoid surface disturbance to vegetation
49	6583-84	June 5		Horte		To verify concept of burial and chilling
50	6651-52	June 6		Horte		Commencement date, use of computer programs
C-11	1037	July 8	F. McP.	Blake	Citizen	Inuvik, Sans Sault
C-16	1502	July 11	O. C.	J. Kendi	Citizen	Inuvik, buried and above ground pipe
56	7809-10	Aug. 18	YK	Horte		Costs; related to use in environmental studies
55	7622	Aug. 15	WH	Hughes	CARC	Three pipeline test facilities
C-18	1816-17	Aug. 5	FGH	C. Barnaby	Citizen	Terrain disturbance; revegetation at Sans Sault site
C-20	2058-63	Aug. 7		A. Rabisca	Citizen	Susidence from cut lines
61-A	8754	Sept. 15	YK	Glockner	Foothills	Test site in Calgary to reproduce frost heave conditions
62	8786e-f	Sept. 16		Glockner		Research; stress concentration effects; crack arrestors; AGTL facilities - Blackfoot Trail
64	9434 9442	Sept. 18		Spafford Claridge	Foothills Foothills	Gauging of ground water discharge - Great Bear & Mackenzie Rivers Slope stability tests conducted in Inuvik by Mackenzie Valley Pipeline Research Ltd.
67	9859 9871 9987-88 10026-27	Sept. 23		Jarvis Jarvis Jarvis Jarvis	Foothills	CAGPL test site - Inuvik - necessity to import snow Experience of Adams (EPB) on test loop winter road at Norman Wells Test road facility, Inuvik Inuvik snow road tests
68	10167-70	Sept. 24		Jarvis		Conditions of darkness at test sites at Sans Sault
69	10308-37 10342-53 10364 10367-70	Sept. 25		Williams Williams Williams Williams	MVPI	Laboratory tests versus actual in-the-ground pipe performance; Calgary test site N.E.S. studies re: shut-off pressures; Hoekstra's experiments and results Calgary Frost Heave Institute Northern Engineering Services research in Calgary; depth of active layer over the pipe
70	10577-78	Sept. 26		Lewis	MVPI	Spot discharge measurements; Babbage River
72	10722-29 10793	Oct. 15		Longlitz Adam	MVPI EPB	Inuvik, re: Arctic Gas testing of frost penetration Calgary test site re: frost heave

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73	10895	Oct.16	YK	Slusarchuk	CAGPL	Carleton University; Cold Regions Research and Engineering Laboratories, Hanover, New Hampshire
	10899-900			Slusarchuk		Calgary test site facilities re: frost-heave test facilities
	10908-10			Slusarchuk		Calgary test facility; experiments; prediction of frost heave
	10924			Slusarchuk		Calgary field test-site
	10943			Morgenstern	CAGPL	Calgary test site
	10954			Morgenstern		Inuvik test loop; Mackenzie Valley Research; slope stability
74	10975	Oct.17		Williams	CAGPL	Inuvik snow road test
	10983-11001			Williams		Inuvik snow road test
	11010			Williams		Inducing frost penetration; Inuvik test site
75	11034	Oct.20		Parker	CARC	Thin work pads tested at Fairbanks site
	11086			Parker		Inuvik, Prudhoe Bay test plots re: revegetation, rehabilitation programs; Arctic Gas program of reseeding abandoned rig sites
76	11212			Parker		Atomic Energy Commission to use Cape Thompson as a test site, reaction from Inupiat people living in the village of Point Hope
79	11713	Nov. 3		Dabbs	CAGPL	Tuktoyaktuk, Caribou Hills, Inuvik, Sans Sault - sites for revegetation studies
	11717-30			Dabbs	CAGPL	Slides showing experiments at test sites
80	11771-77	Nov. 4		Dabbs		Greenhouse experiments in Calgary, plot established at Le Crate in Alberta
	11780-96			Dabbs		Soil composition; Sans Sault tests on vegetation species recovery
	11814-25			Clark		Hydrometric gauges - studies combined with Glaciology division of Inland Waters Directorate of DOE
	11824-29			Clark	CAGPL	Questioned by Berger re tests and instrumentation used to monitor slopes near Fort Simpson
	11921-23			Dabbs	CAGPL	Monitoring of Inuvik snow road
	11929-38			Clark		Studies of Inuvik snow road
	11947-48			Dabbs		Studies of geothermal regime restored and maintained by chilling and revegetation
	12083			Williams	CAGPL	Payment for gravel removal for Sans Sault test site
81	11965-71	Nov. 5		Dabbs		Effects of caribou and small mammals on reseeding program at Sans Sault
82	12139-42	Nov. 6		Dabbs		Test site at Sans Sault - use of wheel ditcher; tests of winter seeding and stripping of tundra mat at Tuk
	12172			Williams		Maximum grading of Inuvik test snow roads 16 percent
	12304-21			Dabbs		Type and duration of tests on cold soil conditions carried out in Calgary
83	12337-48	Nov. 7		Dabbs		Testing of tundra mat removal and replacement at Tuktoyaktuk
86	13034	Nov.13		Williams		Prudhoe Bay, weather conditions
87	13147-63	Nov.14		Vaartnou	Foothills	Revegetation plant test sites
88	13334-35	Nov.17		Vaartnou		Test sites for revegetation techniques, species
88-A	13366-70			Dabbs		Test sites for revegetation
89	13536-39	Nov.18		Dabbs		Test sites for revegetation
	13547-51			Dabbs		Test sites for revegetation
	13561-65			Dabbs	CAGPL	Testing methanol impact on vegetation
90	13604-20	Nov.19		Dabbs		Testing effects of methanol, fuel oil etc. on vegetation
	13711-14			Dabbs		Sans Sault; revegetation testing
93	14144	Dec.1		Gunn	CAGPL	Babbage River, bird observation and disturbance experiments
	14182-83			Gunn		Nunaluk Spit; disturbance to nesting birds
	14187			Gunn		Experiments as to the disturbance of Lapland Longspurs by man at the Firth River, test plot
94	14255	Dec.2		Jakimchuk	CAGPL	Disturbance studies; Jago River experimental site

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95	14361	Dec.3	YK	Jakimchuk	CAGPL	Sans Sault; incineration methods re: garbage disposal
	14383-84			Banfield	CAGPL	Sans Sault, construction date
	14446-51			Hemstock Banfield McCart	CAGPL CAGPL CAGPL	Chick Lake; cumulative impact studies
98	14913	Dec.8		Gunn		Revegetation test plots, North Slope
99	15047	Dec. 9		Scott	MVPI	Chick Lake, detailed monitoring
101	15504	Dec. 11		Zoltai	CARC	Frost heave tests, Sans Sault
103	15721-22	Dec. 15		Stein	CARC	Fish resource test sites - 60 mile radius - Fort Simpson, Norman Wells, Arctic Red River, Aklavik; identification of domestic fishing sites
105	16146-48	Dec. 17		Lent	CARC	Feeder pipelines adjacent to gravel road pads re: caribou responses to structures
107	16350-51 16359-61	Jan. 12		Adam Adam Berger	EPB	Norman Wells, Inuvik snow road and testing Inuvik, Norman Wells snow road tests; usage; Mr. Parker of Alaska - views
108	16466	Jan. 13		Wilimovsky	EPB	Effects of blasting on fish, experiments conducted at the Defence Research Agency installation
	16486-87			Adam	EPB	Snow road tests, loadings and schedules in Norman Wells
109	16684	Jan. 14		Adam		Need to maintain the Calgary Test Site
131	19866-71	Mar.17		Williams	CAGPL	Ditching machine testing, San Sault

TRADITIONAL FOODS (1)

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45	5931-32	May 24	YK	Bayly	COPE/ITC	Value of the land as a source of food supply
47	6201	June 3		McT-Cowan	EPB	Caribou, moose, Dall sheep
C-I	10-11 18-19 24-26 64-65	Apr.2	Aklavik	Paul Thrasher F.Elanik Malanga	Citizen Citizen Citizen Citizen	Available by hunting, fishing Food available from the land Diet consists mainly of caribou, fish Land provided native people with food
C-II	74	Apr.3		Norbert	Citizen	Canned food etc. versus food of the native people
	114-16			Stoor	Citizen	Caribou, main source of food
C-7	604-72	June 24	F.F.	Naedzo	Citizen	Available from the land; teaching by older generations
C-8	677-771	June 25		Touchou	Citizen	Traditional way of life, living off the land
C-9	774-833	June 26		Tutcho	Citizen	Living off the land
C-10	835-70 871-983	June 26 June 27	W.L. F.N.	Citizens Citizens		Discussion at hearings at William Lake Discussion at hearings at Fort Norman
C-11	989-1065	July 8	F.McP .	J. Charlie	Citizen	Wish to maintain way of life
C-12	1067-1149	July 9		Citizens		Wish to maintain way of life
C-13	1150-1269	July 10		Citizens		Community hearings, Fort McPherson
C-14	1272-1362	July 11	O. C.	Citizens		Community hearings, Old Crow
C-15	1362-1476	July 12		Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F.L.	Citizens		Community hearings, Fort Liard
C-18	1766-1834	Aug. 5	FGH	Citizens		Role of country food in native life & culture
C-19	1835-1908	Aug. 6		Citizens		Role of country food in native life & culture
C-20	1936-38 2010-11	Aug. 7		Citizens Citizens		Feasts in the old way of life Lists Dene foods
148	22652-55 22668-70	Apr.29	YK	Rushforth Rushforth	NWT IB/MA	Assigning a dollar value to food from the land - caribou meat Important amount of food derived from the land, Great Bear Lake area
C-50	4973	May 11	VAN	Simmons	Citizen	Issue of replacing food obtained from the land with store bought
155	23682-85	June 30	YK	Watkins	NWT IB/MA	Rushforth's study, country food, value to community

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TRADITIONAL FOODS

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158	24160-64	July 6	YK	Hobart	CAGPL	Agreement on continued importance to natives; values, prices assigned to meat, fish, etc.
160	24624-29	July 8		Asch	NWT IB/MA	Continued use of country foods, importance to native people; economic value
	24642			Berger		Natives, reliance on bush for food
	24753-55			Asch		Study by Yupiktak Bista, benefits of country food
166	25786-91	July 20		Brody	COPE/ITC	Shortages of country foods in north
	25811-18			Brody		Evaluating country foods, difficult to reflect true market value
167	25971-92	July 21		Usher	COPE/ITC	Value, portion of estimated income per native family; problems with measuring volume, value; replacement cost; availability of other food
	25994-6008-A			Usher		Cost of replacing food with that from northern community stores; protein values, fat content of meat
C-73	8173-74	Aug 12	LLM	J. Tsatchia	Citizen	Food from the land, did not need food from store
C-74	8263	Aug 13	RL	A. Tailbone	Citizen	Caribou meat, increased difficulty attaining
	8285	Aug 13		T. Wedowin	Citizen	Fish, caribou, future shortage
185	28558-84	Sept 15	YK	Schaefer	COPE	Value of traditional forms of nutrition, effect of loss of traditional food resources; impact of loss on native health
	28690-91			Cass	COPE	Availability of basic foods, value

TRADITIONAL LIFESTYLES

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XVIII	2030-31	Mar.14	YK	Bayly	COPE/ITC	Hunting Whales
47	6240-62	June 3		Gourdeau	EPB	Land - man relationship
C-I	4-5	Apr.12	Aklavik	Sittichinli	Citizen	Living off the land
	10-12			Paul	Citizen	Food, clothing available from the land
	12			Stewart	Citizen	Living off the land
	13			Thrasher	Citizen	Traplines
	29-30			Paul		Native people used to hunt with bow and arrow
	57-60			Headpoint	Citizen	Legend about a big flood
	63-65			Malanga	Citizen	Living off the land
C-II	70-72	Apr.3		Sittichinli		People living on the land
	132-35			Bean	Citizen	Native cultures
	136-39			Thrasher		Living from the land
C-5	349-382	May 29	Hay River	E.Dean	Citizen	Collision of different ways of life
C-6	491-576	May 30		T.Bughhins P.Bughhins et al	Citizen	Style of life, native people, Hay River area
	578-595	May 31		Camsell	Citizen	Preservation of the native ways
C-7	603-672	June 24	F.P.	Naedzo	Citizen	Living off the land; teaching by older generations
C-8	676-771	June 25		Touchou	Citizen	Interdependence of the people
C-9	774-833	June 26		Tutcho	Citizen	Living off the land
C-10	835-70	June 26	W.L.	Citizens		Discussion at hearings at Willow Lake
	871-983	June 27	F.N.	Citizens		Discussion at hearings at Fort Norman
C-11	989-1065	July 8	F. McP.	Citizens		Wise to maintain old way of life; original tools, hunting equipment
C-12	1067-1149	July 9	F. McP.	Citizens		Wish to maintain old way of life
C-13	1150-1249	July 10		Citizens		Community hearings, Fort McPherson
C-14	1272-1362	July 11	O. C.	Citizens		Community hearings, Old Crow
C-15	1363-1476	July 12		Citizens		Community hearings, Old Crow
C-16	1477-1657	July 13		Citizens		Community hearings, Old Crow
C-17	1658-1714	July 16	F. L.	Citizens		Community hearings, Fort Liard
	1715-65	July 17		Citizens		Community hearings, Fort Liard

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51	6819	Aug. 11	WH	Hemstock	CAGPL	Interior or main line route thought not to interfere with the ability of those living in the general area to carry on traditional lifestyles
53	7179-92	Aug. 13		Joe	CYI	Ways & migration patterns of Yukon tribes
C-18	1766-1834	Aug. 5	FGH	Citizens		Living on the land; customs
C-19	1835-1908	Aug. 6		Citizens		Living on the land; customs
C-20	1915-2075	Aug. 7		Citizens		Living on the land; customs & culture
C-21	2123-31	Aug. 9	NW	C. Barnabe	Citizen	Impact of development on natives
	2147			R. Laycock	Citizen	Return to old ways impossible
	2169-70			M. MacDonald	Citizen	Life on the land
	2177-80			R. Sinotte	Citizen	Hardships
	2195-97			J. Ross	Citizen	Return to land
C-23	2356	Aug. 14	WH	C. Taylor	Citizen	Dog teams, stagecoaches, stern wheelers
87	13086-99	Nov. 14	YK	Bayly Reeves	COPE/ITC Foothills	Disruption of burial, sacred and campsites; recognition of sites
	13113-14			Berger		Destruction of bush, native attitudes, aesthetics
99	15060-64	Dec. 9		Banfield	CAGPL	Signs of man living off land doesn't detract from wilderness values; Man and Biosphere program
101	15442	Dec. 11		Peterson	CARC	Native use of IBP sites
104	15945-52	Dec. 16		Steigenberger	CARC	Domestic fisheries in North Yukon - present, historical catch
109	16586	Jan. 14		McT-Cowan	EPB	Native special land uses
111	16945	Jan. 16		Lent	CARC	Reindeer herding culturally, economically valuable
C-24	2401	Aug. 23	TL	T. Kushia	Citizen	Hunting, trapping for food
	2414			J. Antoine	Citizen	People of Trout Lake live in the true Indian way
C-26	2635-36	Sept. 9	FS	Norwegian	Citizen	Teaching children to live off land, respect for traditional way of life
	2649-51			Paullette	Citizen	Trapping, fishing, hunting - off the land; peace, respect for land; no police; white man stripped Indian of pride, identity, culture
	2654-55			Villeneuve	Citizen	Hunting and trapping; food eaten - dry meat, rabbits, wild chicken; selling fur in Fort Simpson; supplies from white people; dog teams
	2682-92			Lamothe	Citizen	Cree re: buffalo hunt, tribal politics, society of need; reaction to alternative ways of life; hunting economy - man supported extended family; expectations of hunting economy
	2718-19			L. Antoine	Citizen	Living off land re: hunting and trapping; inability of white man to survive in bush
C-28	2792	Sept. 10	Wr	H. Hardisty	Citizen	Trapping, living in bush taught in school at Wrigley
	2822			B. Moses	Citizen	Pipeline and highway re: destruction of old ways of life
	2838-40	Sept. 11		E. Nayally	Citizen	Life in the bush, trapping and hunting; decrease in animals, impact of game wardens, railway
C-29	2854-55	Sept. 12	JMR	Sanguiez	Citizen	Moose hunt, life in the bush
	2862			D. Kaitis	Citizen	Moose kill, sharing in community; preservation of native lifestyle
	2863			Sanguiez		Clothing from animals re: moose, rabbit
	2874-78			Lafferty	Citizen	Compromise between ways of life; hunting and trapping dying out; damage to traplines from explorations
C-31	3006-10	Oct. 7	FR	McLeod	Citizen	Schooling system - historical - Aklavik; impacts of alcoholism, religion on natives; natives becoming more white
	3010-11			Yale	Citizen	Impact of alcohol, school
	3023			Menez	Citizen	Domestic fishing practices
C-32	3073-74	Oct. 8		Boggins	Citizen	Living off the land, relationship of natives to land
C-33	3230-31	Oct. 9	FS	Harrison Berger	Citizen	How many people live off the land?

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C-36	3522-29	Jan.29	IN	Sineok	Citizen	Government program, legislation to preserve protect lifestyles of natives; impact of white-native contact on nuclear families; land ownership; government loans to trappers, hunters; impact of fur traders re: animal overkill
C-39	3736	Feb.18		Kisoun	Citizen	Family life destroyed by book knowledge; traditional education destroyed, culture and respect lost, pride
	3799			V.Allen	Citizen	Eating habits, food
	3803			Day	Citizen	Traditional dances, social gatherings, family affair
113	17158-60	Jan.21		Hobart	GPC-D	Impact of development of native attitudes towards traditional things
	17178-85			Hobart		Impact of northern schooling on native children's attitudes to old lifestyle
	17193			Hobart		Effects of introduction of wage economy on traditional values
	17210			Hobart		Alternative lifestyles to following development of oil/gas industry etc.
117	17835	Jan.26		Bell	NWT-IB/MA	Trend away from tradition towards wage economy
121	18474-75	Feb.10		Sergeant	COPE/ITC	19th century whaling methods, use of muktuk
122	18532	Feb.11		Stirling	COPE/ITC	Inuit utilization of polar bear meat, hides
136	20695	Mar.26	YK	Peet	MVPI	Domestic fisheries must be protected
	20703			Peet		Trend away from traditional ways reflected in domestic fisheries studies
143	21783	Apr.14		Manvel	NIB	Destruction in other parts of the world
	21816-17			Fumoleau	NWT IB/MA	Indians concerned with maintenance of way of life, time of signing of treaties
	21839			Fumoleau		Concept of land ownership not possible to relinquish rights to land
144	21897-98	Apr.15		Sanders	NWT IB/MA	Canadian law and customary marriages and adoptions
	21948-49			Scott Sanders	MVPI	Question of recognition of customary law, hunting and gathering societies
	21952			Sanders		Some groups had tradition of land ownership by clans or extended family groups
	22002-03			Barnaby	NWT IB/MA	Land claims to fight for self-determination, maintenance of way of life
	22010-11			Kurszewski	NWT IB/MA	Municipal council, voting procedures conflict with political structures of Dene people
	22036-37			Bean	NWT IB/MA	Former use of native languages on local government councils
	22061-62			Bean		Myth that Dene culture is static and unchanging
	22077			Barnaby		Decision making by consensus
145	22110-11	Apr.26		Brownstone	NWT IB/MA	Land base very important to Dene
	22118-30			Clarke	NWT IB/MA	Collective culture, self-sufficient economy of the Indians of the Amazon Basin; conflict with transnational corporations over land, natural resource development
	22164-74			Menez	NWT IB/MA	Decision making by consensus; destruction of indigenous economies
	22177			Draimin	NWT IB/MA	Cultural demoralization, Brazil
146	22252	Apr.27		McCullum		No extinguishment of aboriginal rights in Quebec, maintenance of traditional ways
	22273-74			Jones	NWT IB/MA	Effects of large-scale clear-cutting tree harvesting projects
	22302-04			Richardson	NWT IB/MA	Proposal in James Bay agreement; guaranteed income for those who wish to continue subsistence hunting
	22314			Young	NWT IB/MA	People of northern Manitoba maintained traditional way of life until recently; loss of skills for "bush life"
	22336-38			Page	NWT IB/MA	Displacement of Indian, Metis society on the prairies, coming of the CPR

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147	22358-59	Apr.28	YK	Page	NWT IB/MA	Metis people dispersed; social institutions, leadership destroyed
	22385-90			Jones	NWT IB/MA	Titles to land and fishing areas handed down matrilineally, north west B.C.
	22400			Page		Traditions of buffalo hunting, local government Prairie, 1870'a
	22422-24			Richardson	NWT IB/MA	Subsistence living, hunting, struggle between subsistence life and James Bay Project
	22477-485			Nahanni	NWT IB/MA	Hunting, trapping, fishing, Dene, interpretation of native culture by southern press
	22505-508			Nahanni		Traditional activities not thought of as economic development, Artic Gas application, Dene
	22525-537			Snowhoe	NWT IB/MA	Hunting and trapping, experiences, locations
148	22539-56	Apr.29		Nahanni	NWT IB/MA	Number of hunters and trappers, NWT, cross-examination as to sampling methodology
	22620-24			Nahanni		Way of life evolved over hundreds of years; going back to the land
	22646-49			Rushforth	NWT IB/MA	No overall decrease in the number of Bear Lake men participating in traditional land use
	22663-68			Rushforth		The value of the bush life, challenging, independent
	22675			Asch	NWT IB/MA	Problems cannot be solved through traditional ways of life say the studies of the Boreal Institute of the University of Alberta, Van Grinkle Associates, Gemini North
	22702-03			Asch		Traditional institutions put under strain, creation of social problems
	22716-21			Asch		Gemini North report says traditional lifestyles are dying
149	22748-59	May3		Ritter	NWT IB/MA	Place name study conducted among the Kutchin people of NWT and Yukon Territories
150	22859-66	May4		Hills	NWT IB/MA	Impact of European colonizers on aboriginal peoples; status of native cultures at time of contact; population decline
	22875-76			Hills		Amerindians, Brazil, ecological knowledge of rain forest
	22921-24			Simpson	NWT IB/MA	Northern region, differences in lifestyles, culture, identity
	22930-35			Simpson		Communal organization of productive activities
	22957-62			Bean	NWT IB/MA	Possible development of Dene institutions from own traditions
	2300-03			Bean	NWT IB/MA	Not all people interested in living off the land
	23011-12			Cheezie		Decisions made by consensus
	23027-34			Bean		Organizations being developed along traditional lines
151	23049-61	May5		Irving	CYI	Ways of Kutchin Ancestors of modern Old Crow people
	23062-64			Irving		Prehistoric Kutchin, large territories needed to support even a small population
	23072-74			Irving		Tenure, inheritance of caribou fencing, corrals, prehistoric Kutchin people
	23091-96			McClellan	CYI	Way of life of Yukon natives
	23100-03			McClellan		Loss of traditional ways, Yukon, construction of Alaska highway
152	23264-69	May6		Johns Jacquot	CYI CYI	Revamping of native culture, potlatches
	23322-27			Berger Cruikshank McClellan	CYI CYI	Native dual economy in southern Yukon
153	23410-13	May7		Sharp	CYI	Fur trading at Ross River
C-40	3813-14	Feb.23	AK	Husky	Citizen	Loss of old ways, fear for new generation
	3858-60			Kendi	Citizen	Use of caribou hides, meat; use of fish, importance of work
	3891			Malagana	Citizen	Sharing food among natives

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C-41	3898-900	Mar.2	HOL	Memarak	Citizen	Hunting tradition
	3907-16			Aleekuk	Citizen	History of her life
	3918-22			Niriyonak	Citizen	Story of her life
	3980-84	Mar.3		Oliktoak	Citizen	Account of old ways
	3988-92			Hologak	Citizen	Way of life, hunting
	3998-4000			Malgokak	Citizen	Traditional hunting expedition
	4006-10			Kitologitak	Citizen	Stories of old-time livelihood
C-42	4033-35	Mar.4	SACHS	Tiktalik	Citizen	Life on Banks Island, travels to Desalis Bay, Egg River; hunting birds
	4063-65			M. Elias	Citizen	Influence of government, missionaries, schools on old ways
	4065-70			A. Elias	Citizen	Education, role of government, change in society
C-44	4161-63	Mar.8	TUK	Koesak	Citizen	Eskimo whaling, hunting camps, snow houses, Kyaks, fishing in Husky Lakes
	4164-70			Nuyaviak	Citizen	Whale hunting near Kittigazuit, use of kyaks; use of cotton to spark a fire; medicine men, snow houses, "bosses", meals, snaring ptarmigan, travelling by dog and sled, clothing, lack of waste
	4170-73			Wolkie	Citizen	Abundance of food; teaching children to hunt
	4241-47	Mar.9		Cockney	Citizen	Travelling in his lifetime, hunting and trapping
	4247-51			Felix	Citizen	Hunting and fishing, keeping fish for winter; trapping fox, seal, polar bear, fishing for Hudson's Bay trading post
	4252-53			Cockney	Citizen	Mixing of Indians and Inuit, planning to care for land
	4297-302			Gruben	Citizen	Travels to Herschel Island from Pearce Point, Tom Cod Bay, Banks Island; residential schools, hunting
	4304-12			Lemeur	Citizen	Traditional land use, importance, dependence
C-45	4358-61	Mar.10		Komeak	Citizen	Life story, Richardson Island, Tuk
	4367-70			Norberg	Citizen	Travels on ships through ice, movement of ice
	4389-95			Voudrach	Citizen	Living off the land; early days in Tuk; surveyors used his cabin; decline of game
C-46	4424-27	Mar.11	PAUL	G. Ruben	Citizen	Dependence on land, sea; his travels
	4435-36			P. Green	Citizen	Loss, due to education system; influence of southern ways; importance of caribou to way of life
	4447-55			E. Ruben	Citizen	Life before arrival of white men, hunting, trapping, fishing
	4466-67			J. Thrasher	Citizen	Spring hunt; naming of Paulatuk
	4468-70			J. Ruben	Citizen	Making money, hunting and trapping
	4470-71			B. Ruben	Citizen	Raising children
C-47	4527-30	Mar.13	ARR	H. Andre	Citizen	Learning to trap, farming
	4581-82			W. Norman	Citizen	Greatness of old days on land, living off land
	4617			N. Andre	Citizen	Did not use guns; beauty of land
	4643-46			P. Baptiste	Citizen	Travelling along Anderson River, Tuk
C-48	4745	Apr.30	FS	F. Paulette	Citizen	Relocation of Dene from Fort Fitzgerald to Fort Smith; hunting buffalo
C-50	4899-4903	May 11	VAN	Paul	Citizen	Plea for native culture survival
	4972			Simmons	Citizen	Must not destroy traditional lifestyle, cannot afford to replace it
	5023			McCall	Citizen	Demands of Inuit, Dene to preserve traditional lifestyles
	5050-52			Giovanna	Citizen	Cedar tree, part of native life, Vancouver Island, unity between land and people
C-52	5224-25	May 13	CAL	R. Sykes	Citizen	Problems with preserving traditional ways
	5272-73			Chief Snow	Citizen	Ways of Stoneys prior to signing of Treaty 7
	5398-99			J. Ryan	Citizen	Lac La Martre; changes brought by construction of Mackenzie Highway

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C-53	5429-30	May 14	CAL	Getty	Citizen	Lifestyles of Big Horn people before construction of dam
C-54	5606	May 17	EDM	Berlie	Citizen	In favor of pipeline as it would develop a distinctive northern lifestyle, preserve cultural heritage
C-55	5846-47 5870	May 18		B. Paschen L. Mulhall	Citizen Citizen	Way of life for 60 percent, native people 60% native people, continued dependence on the land
C-57	5908-10 6189 6258	May 20	WINN	A. Moberly A. Lansdown A. Spence	Citizen Citizen Citizen	Way of life of native people Decline of traditional activities due to opportunities for wage employment Chemahawin Crees moved to new settlement, loss of former lifestyle
154	23539	June 29	YK	Puxley	NWT IB/MA	Government, corporate view of Dene culture
155	23552-54 23721-22			Puxley Watkins	NWT IB/MA	Struggle for rights, cultural act; incompatibility with colonialism Sharing among natives, breakdown due to wage economy
156	23909-20	July 1		Gillie	NWT IB/MA	Loss of traditional culture by children attending schools during early development of north, language change to blame
C-59	6597-99	May 26	TOR	M. Nichini	Citizen	Wide range of cultures, North American native people; rediscovery of culture by young people
C-60	6806-10	May 27		J. Corbiere-Laval	Citizen	Dene struggle to maintain ways; role of women in preserving culture
C-62	6896-902 6937	May 31	MTL	Ciaccia Ponting	Citizen Citizen	Income security program, James Bay, to safeguard traditional pursuits Protection of way of life of native people ranked third by respondents to study
	7110-15			Lafond	Citizen	Mirabel airport, expropriation issues
157	24082-83	July 5	YK	Hobart	CAGPL	Devaluation of traditional ways of native life because of contact with whites, resulting in loss of respect
158	24207-208	July 6		Hobart		Bear Lake people, continued dependence on the land, maintenance of traditional activities
160	24649-57 24674-99	July 8		Asch Asch Rushforth	NWT IB/MA NWT IB/MA	1970's, rebirth of native pride in history, traditions, identity; ethic of sharing Question re maintenance of extended family, impact of transfer payments; arranged marriages; continuation of leadership, methods of political decision-making
	24718-33 24747-48			Asch Rushforth		Tradition of sharing, co-operation Native institutions still survive, although have changed
163	25139-47 25263-65	July 14		Hobart Hobart	CAGPL	Fort Simpson, continued exploitation of fish, small and large game Government incentive programs, back to the land
164	25345-47 25366	July 15		Berger Hobart		Evidence by Dr. Asch, greater long range benefits for native people from trapping than from pipeline employment Traditional sector no longer viable, native desire for wage employment
166	25802-19 25824-39	July 20		Brody Usher	COPE/ITC COPE/ITC	Inuit in past depended entirely on the land now not as possible; difficult to evaluate country produce Continuing economic dependency amongst native people on traditional resources
167	25865-74 25890-900	July 21		Brody Usher		Material changes due to fur trade; incorporation into traditional ways of attitudes to whites; community life Inuit way of life based on their use of the land; obstacles to maintaining values

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167	25906-07	July 21	YK	Usher	COPE/ITC	Traditional sector, northern economy
168	26059-63 26198-202	July 22		Brody Brody	COPE/ITC	Maintenance of modified aboriginal religions Outpost program, support for those who wish to return to the land
169	26227 26247-50 26277-79	July 23		Stanley Stanley Stanley	NWT IB/MA	Passamaquoddy Indians, Maine, expert basket work, woodworking Navajo, production by the extended local Kin group; capitalism foreign to Navaho culture; need for expansion of traditional economic activities Need to support American Indian indigenous religions
C-68	7834-35 7891-917	July 16	FP	T. Landry A. Canadien	Citizen Citizen	Life history of witness; style of life before arrival of whites Hunting, trapping in Fort Providence area; camp for young people to encourage return to traditional ways
C-69	7929-34	July 17	KL	P. Simba	Citizen	Seasonal activities, hunting, trapping, fishing; impact of Hudson's Bay Company; role of medicine man
C-70	7966-67 7272-76 7976-78 7978-79 7981	Aug 9	RE	J. Lacordne P. Wedewin A. Zoe L. Wellin J. Mackenzie	Citizen Citizen Citizen Citizen	Tools used to cut trees; nets; diapers made of moss Making a birch canoe, bow and arrow, fishing, trapping Snowshoes, travelling by dog team; life was better before white man Moss and caribou clothing Hardships of living off the land
173	26919-21	Aug. 19	YK	Kyllo	COPE/ITC	According to Hobart, young people no longer interested in bush life, Kyllo claims opposite, need for cultural identity, with traditional ways
176	27391-96	Aug. 24		Robinson	COPE/ITC	Education designed to eradicate, no native input
178	27608	Aug. 26		Pritchard	MVPI	Retain if construction period short, store bought goods if stretched out
181	28121-22 28213-18	Sept 8		Reimer McRae	MVPI MVPI	Development in terms of native ways Special work schedules to adapt to native way of life, cycles so do not miss hunting and fishing seasons; problems adapting to wage economy
184	28460-62 28474-77 28515-17	Sept 14		Kehoe Atcheson Atcheson	COPE/ITC COPE/ITC	Effect of introducing wage employment; bush life is dignified, main identification Carving, modification of roles from earlier days, unable to recapture way of life even if southerners left Final decision to keep ways or enter wage economy
C-72	8131-32	Aug. 11	RE	N. Black	Citizen	No laws in traditional society; bows and arrows, birch bark canoes; sharing the land; fur trade
C-73	8167-70 8181 8189-92 8198 8206 8214 8219 8224 8227-28	Aug. 12	LLM	J. Roamie J. Nitsiza A. Zoe I. Nitsiza I. Zoe M. Mantla M.J. Simpson M.A. Simpson M.A. Jeremichica M. Moosenose	Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen Citizen	Old people's way of life, dependence on land, travelling to hunt, bringing up children, making fish nets More animals; fewer forest fires Clothing made from animal hides and fur; boats, tents, traditional hunting Cannot let go of natural way of life, love of land Income from furs Helped her father hunt and trap; abundance of furs Wood burning-furnace still used, food and clothing from land Year-round hunting, trapping, fishing
C-74	8252-53 8254	Aug 13	RI	Chief Arrowmaker P. Zoe	Citizen Citizen	Her father's hard life, fishing with handmade nets Future of children, hunting Land good to people, hard life, hunting, trapping, fishing

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C-74	8254-56	Aug. 13	RL	B. Apple	Citizen	Land provides all needs, fear of future
	8257-58			H. Simpson	Citizen	Climate adaptation, teaching children, mutual aid
	8258-62			A. Gon	Citizen	Love of land, future of children
	8262-63			A. Tailbone	Citizen	Travel, climate, hunting, trapping
	8263-66			D. Chocolate	Citizen	Time when father alive, increased difficulty to live off land; hardships travel, hunting, fishing, trapping, fear of future
	8266-68			P. Drybone	Citizen	Land provides clothing and food, hardships, climate adaptation
	8271-72			J. Woya J. Mantla	Citizen Citizen	Maintaining, future of children, love of land, winter hardships
	8276			A. Wedewin	Citizen	Skills, fear of future
	8277-80			J. Ouitte J. Mantla	Citizen	Hardships, travel, climate adaptation, hunting, fishing, trapping, food, clothing
	8282-83			R. Wetarde J. Black	Citizen Citizen	Love of land, dependence
	8283-84			M. Arrowmaker J. Gon	Citizen	Poverty, food spoilage, future of children
	8287-89			Bella Zoe C. Chocolate	Citizen Citizen	Live off land, hunting, trapping, shelter, compare with whites
	8291			A. Wetarde C. Wetarde	Citizen Citizen	Hardships
	8292-93			M. Zoe I. Mantla	Citizen Citizen	Love of land, future of children
	8294-95			F. Ouite J. Wetarde	Citizen Citizen	Hunting, fishing, need land, trapping, hardships
	8296-97			F. Arrowmaker C. Tailbone	Citizen Citizen	Hunting, fishing, trapping, hardships, imposition of white way of life
	8297-98			J. Tailbone	Citizen	Hunting, fishing, trapping: pipeline threat
	8299			P. Zoe	Citizen	Hardships, hunting, travel
	8300-03			Father Amourous	Citizen	Migration, destruction due to development, hunting
	8303-06			Chief Arrowmaker	Citizen	Love of land, hardships, life in time of Fdzo
C-75	8309	Aug 21	CL	H. Cuzon	Citizen	Dependence on land
	8309-10			L. Cuzon	Citizen	Life on land means more than money
	8312-13			A. Codzi	Citizen	Clothing, hunting, trapping, fishing, hardships
	8314			J. Codzi	Citizen	Canoe and dog travel, hunting, trapping, fishing; freedom
	8314-15			F. Blancho	Citizen	Hardships in bush
	8315-16			I. Oudzi	Citizen	Live off land, government support
	8316-17			V. Cuzon	Citizen	Always lived in area
	8317-19			T. Codzi	Citizen	Future of children, live off land
	8321-24			D. Tobac	Citizen	Love of land, hardships
	8326-27			D. Shea	Citizen	Don't live by money, land precious
	8327-29			G. Blondin	Citizen	Use of land in father's time, hunting, trapping, fishing
	8329-32			R. T'Seleie	Citizen	Close bonds of people, migration, independence, outsiders try to destroy way of life
	8332-33			M. Codzi	Citizen	People always lived in area, living off land
	8333-36			C. Cuzon	Citizen	Hardships, language
	8347-48			M. Cuzon	Citizen	Fear of future for children, living off land
C-76	8352	Aug 25	DET	Chief Charlo	Citizen	Love of land, friends with everyone in territory
	8360-61			Chief Charlo		Live off land, money from treaty and furs
	8373-75			M. Noel	Citizen	Depend on land, food hunting, furs, fear of future
	8377-78			P. Liske	Citizen	Before development, hunting, trapping; control of future
	8380			J. Martin	Citizen	Like to go back to bush

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TRADITIONAL LIFESTYLES

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C-77	8389-91	Aug 26	DET	J. Tobie	Citizen	Free on land, didn't understand about money, live off land, time when no pollution
	8394-96			J. Sangris	Citizen	Living off land, hardships
	8398			A. Lacorne	Citizen	Concept of money hardships
	8401			I. Sangris		How whites have affected
	8403-06			M. Betsina	Citizen	How life was in grandfather's time, fear of future for children
	8410			S. Abel	Citizen	Living in bush
	8411-12			V. Abel	Citizen	Fear of children's future; get back to land
	8422-23			A. Potfighter	Citizen	Trapping, hardships, getting more poor every year
	8426-27			A. Potfighter		Berry picking, hunting, trapping, fishing, effect of development
	8429			H. Tobie	Citizen	Good life on land
	8432			C. Mackenzie	Citizen	Never lived off land as elders did
185	28569-77	Sept 15	YK	Schaefer	COPE	Interaction between mother and child, child spacing, emotional factor in early infancy, child psychology; importance of family
	28580			Schaefer		Population curbed by famine and starvation; rifle made life easier for the hunter; fewer tedious jobs for women
	28691-94			Cass	COPE	Family unit, sense of time, social structure, hospitality, politeness
187	29034-35	Sept 17		Raddi	COPE	Old pattern of drinking among Inuit, homebrews
188	29193	Sept 21		Neakok	COPE	Oil used to heat homes and cook food; coal used for fuel
	29245-50			Lincoln	COPE	Endurance of forefathers, courage, pride, honour code, family structure, hunting, importance of women, cleanliness, clothing, rearing children
192	29969-95	Oct 4		Krauss	MVPI	Nature of native languages, relationship to culture and values of native society; factors influencing loss and retention of language; ensuring that native languages continue to exist
	29996-30012			Ritter	MVPI	Danger of language loss in Mackenzie Valley; development will further erode native languages; rights of native people to maintain languages, cultures, traditions, guaranteed by law
	30059-61			Goudge Krauss	MVPI	Northern native cultures based on oral tradition; literacy among older generation

TRAINING PROGRAM - APPLICANT'S

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XXXIII	4283	Apr. 21	YK	Dau	CAGPL	Orientation education for construction workers
XXXIV	4393	Apr. 22		Dau		Construction training program, Fort Good Hope
XXXVII	4784-85	May 13		Dau		Construction workers training program - for those coming from the south
	41	May 20		Lucas	CARC	For local residents, location
	42	May 21		Hurd	CAGPL	Training program, unions
	43	May 22		Horte	CAGPL	Managed by Arctic Gas; placement of trainees
				Horte		Started by Arctic Gas, Alberta Gas Trunk Line Co. Ltd.
	46	June 2		Craik	EPB	EPB Guidelines for training program
	47	June 3		Templeton	EPB	Need lead time, schedule
	48	June 4		Gourdeau	EPB	Guidelines OK but don't go far enough
				Gourdeau		Regulations, subject to approval of agency
	49	June 5		Horte		Active Native participation so far
C-4	317-324	May 28	Hay River	Workman	CAGPL	Native workers in program
C-5	428-430	May 29		Workman		Native people, involvement in the program
	436-442			Fraser	Citizen	Turnover in program

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C-10	957-60 1139-45	June 27	F. N.	Elwood Blake Workman Elwood	Foothills	Training for construction oriented jobs Nor-Tran training program; native involvement
C-13	1245	July 10	F. McP.	J. Martin	Foothills	Some local young people have joined program
C-16	1550	July 13	O. C.	R. Allen	Foothills	Problems within the program; guarantee of job
51	6812	Aug.11	WH	Hemstock	CAGPL	Arctic gas to make every effort to attract and train all able and willing northern residents
56	7863 7905-96	Aug. 18	YK	Horste Blair	Foothills	CAGPL's costs Foothills training of local northerners for supervisory positions
58	8150 8243-46	Aug. 20		Blair Blair	Foothills	Foothills intentions as to training program Foothills programs; Nor-Tran; AGTL work experience
59	8328-29	Aug. 21		Marshall	CAGPL	CAGPL' Nor-Tran, costs
65	9620	Sept.19		Kosten	Foothills	Contractors' training programs for skilled trades
66	9799 9807-18	Sept.22		Mirosh Mirosh Kosten	Foothills	Advance clearing as training time Skill, experience requirements for construction safety; clearing in advance as a training period; wage incentives for highly-skilled workers
67	9964-65	Sept.23		Mirosh		Advantages of training involving summer spread
68	10075-82	Sept.24		Hushion	Foothills	Preparation of northerners for work in Foothills division District offices
88	13209-23	Nov.17		Bouckhout	Foothills	Environmental manual for engineers, training for construction workers
95	14505-08 14521-23	Dec.3		Hemstock Hemstock	CAGPL	Environmental inspectors - training programs; qualifications, duties Reports; Alaskan experiences; on-the-job training; employee turnover
97	14805 14818-21	Dec.5		Gunn Jakimchuk	CAGPL CAGPL	Environmental training, construction and other personnel Training personnel in environmental matters
100	15251-58	Dec. 10		Bouckhout		Environmental training, construction workers
107	16328	Jan. 12		Templeton	EPB	Training of environmental inspectors, manuals, aids, etc.
108	16467-75	Jan. 13		Templeton		Training of construction workers, environmental inspectors; reports; guidelines; person trained in relationship to the damage to the environment he can cause; variety of programs
109	16606-11	Jan. 14		Templeton		Recommendations; environmental awareness
C-24	2419-22 2440-43 2448-52	Aug. 23	TL NB	Rowe Hushion Rowe Hushion	CAGPL Foothills	Foothills programs, ACTL program; number of northerners involved Training programs and opportunities; permanent jobs available Employment opportunities; education requirements and upgrading; training programs
C-25	2527-33	Sept. 8	FS	Workman Ellwood	CAGPL Foothills	Nortran Training Program, construction training program, opportunities to enter training programs
C-26	2619	Sept. 9		Ellwood		Sponsor of northerners trained to fill positions related to pipeline
C-27	2726	Sept. 10		Ellwood		Nortran Training Program re: northerners to fill pipeline positions
C-30	2907-09 2911-18	Oct. 6	PP	Mirosh Mirosh Ellwood Carter	Foothills CAGPL	Nortran program, northerner construction training program, Hire North Native people in training programs re: number, location and nature of training facilities, turnover rate and reasons, guidance counselors, post-construction permanent positions
C-31	3000-03	Oct. 7	FR	Mirosh		Training programs - applications qualifications

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C-33	3178	Oct. 9	FS	Mirosh	Foothills	Nortran Training program re natives training for pipeline operations and maintenance, ratio of natives
C-35	3389 3415-18	Oct. 22	LI	Carter Carter	CAGPL	Nortran program (general) Nortran program - policy re trainee employment, turnover rate
C-36	3502-03 3509-11 3518 3559	Jan. 29	In	Burrell Workman Mainland Garland	Foothills CAGPL GPC-D Citizen	Employment of Nortran trainees - union pipeline construction Nortran program - training for operation and maintenance phase Potential expansion of Nortran Shortcomings of applicant training programs
C-37	3569-70 3572 3615	Feb. 10		Workman Burrell Burrell		Job opportunities through Nortran program Benefits of Nortran program Recruitment for Nortran program
C-38	3660-61 3681-82	Feb. 15		Mirosh Mirosh		Types of positions available for Nortran trainees Location of Nortran, construction training sites
113	17247-53 17262-64	Jan. 21		Hobart Hobart	GPC-D	Nortran, effects on natives sent away from home communities; sources of reliable recruits; terminations from program; recruitment from isolated communities Nortran recruits and screens to a certain extent; total entered in program
116	17734-39	Jan. 24		Koe Motyka	Citizen Citizen	Nortran, employment after pipeline
117	17825-26 17844 17854 17859-66 17890 17892-93 17905-14	Jan. 26		Sider Sider Tod Wopnford Sider Bayly Sider Wopnford Bayly Sider Sider Wopnford Berger	GPC-D-G GPC-D-I GPC-D-S COPE/ITC	Nortran, northern training program Native interest indicated by Nortran program Nortran, training program Nortran, variation of northerners employed, reasons for termination, entry requirements Nortran, choice of long term or seasonal employment
118	17946-48 17979 17993-95 18039	Jan. 27		Goudge Sider Bell Horsfield Czaja Motyka Bayly Horsfield	MVPI NWT-IB/MA GPC-D-I GPC-D-S GPC-D-G	Nortran, native or northern involvement Nortran, trainees in construction phase Nortran, encourages participation of natives in hydrocarbon development Nortran, industry program; policy of training native people
123	18832-36	Feb. 23		Yates	MVPI	Objectives of program, cost benefit analyses
135	20585	Mar. 25	YK	Sprague	MVPI	Training construction personnel in environmental awareness
142	21521-23 21526-44 21547-663	Apr. 13		Steeves Virtue Giroux Behn Virtue Giroux Behn	CAGPL Nortran Nortran Nortran	Evidence to be presented; Phase 4 Evidence in chief Trainees' requirements, attrition rate, services provided, employment opportunities
143	21664-736	Apr. 14		Virtue Giroux Behn		Hiring of women, housing, problems with the program
150	22916-18 23138	May 4		Simpson Johns	NWT IB/MA CYI	Nortran program Opposition to Alaska highway by White Pass and Yukon Railway

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153	23490-93	May 7	YK	Sharp	CYI	Nortran, efforts for native employment
C-48	4692-94	Apr. 30	FS	F. Paulette Burrell Rowe	Citizen Foothills CAGPL	Nortran is a combined effort of Foothills and CAGPL
C-52	5240 5326-29	May 13	CAL	J. Poyen B. Sider	Citizen Citizen	Opportunities for natives, jobs Numbers trained
C-56	6046	May 19	REG	Berger		Funded by both CAGPL, Foothills
155	23691	June 30	YK	Watkins	NWT IB/MA	Comment re value of program, numbers involved
C-62	6957	May 31	MTL	Genest	CAGPL	Training programs for natives, to ensure no repetition of history
C-63	7092	June 1		Hughes	Citizen	Job opportunities will be available to native people due to training programs
C-64	7270-74	June 3	OTT	Hollands	CAGPL	Nortran
C-67	7747-48	June 8	HAL	B. Hollands	CAGPL	Nortran illustrates northerners' interest in employment
161	24819-27 24860-71 24884-86 24913-14 24918-26	July 12	YK	Carlson Trusty Hollands Hollands	CAGPL CAGPL	Orientation, counselling programs; government, training for local residents Training for some operations and maintenance jobs during construction; pay during training Welding area not stresses, Nortran; program not training for construction phase Personal and family counselling
162	24934-36 24942-44	July 13		Hollands Hollands		Counselling services; interpreters Arrangements, payment for use of government services, facilities Orientation courses for new employees
163	25117-19	July 14		Hobart	CAGPL	Potential in Nortran for problems of racial tension, yet hostility did not occur
164	25453-54 25476	July 15		Hobart Roland		Experience at Nortran, natives taking problems to white foreman Question re training of necessary additional barge personnel
C-68	7847	July 16	FP	Horte	CAGPL	Adjustment to make training fit with native lifestyle
170	26370-73 26421-47	Aug. 16	YK	Burrell Ellwood Deyell	Foothills Foothills Foothills	Preferential treatment for northerners, programs to upgrade skills On-going career development, upgrading skills, Operations and Maintenance force sent south to continue training between contracts
171	26530-32 26541-A-44			Burrell Beyell MacLeod		Definition of northerner, residence requirement; suggestion of institutional vs. on the job training Assessment of skill level of people based on estimates; estimation of number of jobs held by northerners trained through Nortran
173	26914-18 26955-58	Aug. 19		Kyllo Kyllo	COPE/ITC	Merits of Nortran, claiming that the program is not working as well as it is thought to be Number of jobs available, different work schedules giving time to leisure periods
176	27386-87	Aug. 24		Button	COPE/ITC	Problems with keeping students, mobility
180	27842-44	Sept 7		Hodson	MVPI	Canadian Pipeline Advisory Council and Nortran arranged on-the-job training for native northerners in Alberta
195	30583	Oct. 7		Mirosh	Foothills	Advance construction spread may be employed for training employees
203	32170-71	Nov. 18		Veale	CYI	Precondition to construction job

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147	22451-452	Apr. 28	YK	Young	NWT IB/MA	Manitoba Hydro, desire for training for leadership roles
153	23428	May 7		Sharp	CYI	Department of Vocation Training set up prospector training program in Ross River
	23516			Sharp		Prospector training program
C-47	4641	Mar. 13	ARR	J. Andre	Citizen	Wants to be trained in the north
C-52	5324-29	May 13	CAL	B. Sider	Citizen	Encouragement from Petroleum Industry Committee on Employment of Northern Residents
C-55	5773-77	May 18	EDM	J. Barry	Citizen	R. Angus Ltd., Leavy duty mechanics, parts man apprenticeship program
	5815-18			M. Venne	Citizen	Native Outreach Program
	5877			R. Steele	Citizen	Training of local residents, Edzo School complex
	5889-900			H. Cardinal	Citizen	Alberta Department of Advanced education, training for native people, Northern Alberta; submission of program to Federal Government, Manpower and Immigration; Treaty Indian Training Corporation
	5966-68			R. McFarland	Citizen	Keyano College, Fort McMurray; centres in Fort Smith, Fort Chipewyan
156	23914	July 1	YK	Gillie	NWT IB/MA	Training program for teachers set up by late 60's
161	24812-15	July 12		Carlson	CAGPL	Trans-Canada Pipeline, 1950's, on-the-job training
	24822			Carlson		A.V.T.C., Fort Smith, vocational programs
162	25019-25	July 13		Hollands	CAGPL	Institutionalized programs, co-operative action between company, contractors, unions, governments; program at construction site to teach skills
163	25130-31	July 14		Hobart	CAGPL	Orientation sessions for both native, white recruits
164	25451	July 15		Roland Hobart	MVPI	Skills program to train native foremen, supervisors
169	26255-57	July 23		Stanley	NWT IB/MA	Training Lumni people, carpentry, office, clerical skills
	26318			Ruttan	NWT IB/MA	For renewable resource-based economy, need to implement training program in administration, direction and application
170	26470-92	Aug. 16		Burrell	Foothills	Construction jobs, training
171	26532-34	Aug. 17		Deyell	Foothills	Alaska and Alberta programs; run by contractors, government, unions
175	27237-39	Aug. 23		MacLeod	NWT/CC	No guarantee of enough work to meet requirements of apprenticeship program; Canada Manpower on-the-job training programs, candidates limited by terms of reference; need for training facility in delta area; local contractor finances vocational training; recommendations: capacity of facilities, funding, management training
	27281-81A			MacLeod Ashton	NWT/CC NWT/CC	Management training programs, content; success of FBDB Managerial program in Fort Smith and Hay River
	27299-301			MacLeod		Revision of program priorities; increased capacity of existing facilities; new facilities in Inuvik recommended
	27352-53			MacLeod		Need for flexibility in apprenticeship program, on-the-job training
176	27370-71	Aug. 24		Button	COPE/ITC	Fail as do not respond to needs of natives
179	27776	Aug 27		Runge	MVFI	NWT Housing Corporation, house construction instruction
180	27838-46	Sept 7		Hodson	MVPI	Training Canadians in pipeline construction, financing programs, monitoring success of trainees, "Pipeline Construction Training Assessment"; decline of jobs for trainees; subsidizing training courses under Canada Manpower Adult Training Programme; on-the-job training for northern natives, joint labour management training programs

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68	10079-82	Sept. 24	YK	Hushion	Foothills	Northern training programs may not be accepted as par by unions
	10123-26			Hushion		Programs provided by construction & mining sectors
72	10702-11	Oct. 15		Bayly Longlitz	COPE/ITC MVPI	Government training program for land use officers; formal and field work training; ecological awareness; land form and soil degradation education
111	16949	Jan. 16		Lent	CARC	Enforcement staff, fish and wildlife protection, Alaska
C-30	2891-92	Oct. 6	PP	Osing	Citizen	Skilled labour for Pine Point
	2904			McConnell Osing	Citizen	Mining training program for native people
C-31	2998	Oct. 7	FR	Stevenson	Citizen	Housing - field worker, tenant training programs
C-32	3041-46	Oct. 8		Slavio	Citizen	Syncrude Tar Sands training program, lack of funds; Great Canadian Oil Sands re Indian Affairs training program; Alberta Vocational Training Centre, dropout rate, placement rate, funding from province
	3063			McConnell		Pine Point Management and Territorial Government re training program
	3088-89			McConnell		Pine point Job training, non-existent
C-33	3103	Oct. 9	FS	Evans	Citizen	Fort Smith Adult Vocational Training Centre re high quality instruction
C-33	3117-18			Mirosh	Foothills	Nortran re training Northerners to operate gas plants, maintain pipelines, construct pipelines
	3120-21			Carter	CAGPL	Adult Vocational Training Centre re training for jobs involved in construction
	3151			Ellwood	Foothills	Policy re moving married men with families
	3194			Leishman	Citizen	Unrealistic training re short time period
C-35	3406	Oct. 22	LI	Hasen	Citizen	Economic, legal training programs for native northerners
C-39	3727	Feb. 18	In	Hill	Citizen	Funds for on the job training required
113	17207	Jan. 21		Hobart	GPC-D	Natives, if adequately trained, preferred as employees in north
116	17657	Jan. 24		Rempel	GPC-D-I	Training exercises to test mobility of Delta Environmental Protection Unit equipment
	17676-80			Rempel Appleton Wopnford	GPC-D-G GPC-D-S	Environmental Training Programs for Construction and Operation Personnel; Petroleum Industry Training school, oil-spill clean-up; environmental officer training; Gulf and Shell programs
	17718-19			Rempel		Northerners as environmental monitoring; recruitment
117	k7802-03	Jan. 26		Rempel		Environmental training, development
139	21127-31	Apr. 7	YK	Simmons Norton	MVPI MVPI	Alaska pipeline - inadequate training of construction personnel re environmental concerns; biologists need for training in construction process
140	21295-97	Apr. 8		Nicol	COPE/ITC	Training program of Mitsubishi Company employees; Burrard Inlet area - coastguard, harbours people trained for oil spill contingency operation
141	21504-07	Apr. 9		Cournoyea	COPE/ITC	Quality of training programs provided by petroleum companies
142	21538	Apr. 13		Virtue	Nortran	AVTC, orientation program for Nortran trainees
	21544-48			Giroux	Nortran	Alberta Gas Trunk Line training program
	21553-54					Trainee orientations at AVTC, Fort Smith
	21566			Virtue		Upgrading of Nortran trainees
	21598-601			Virtue	Nortran	International Labour Organization Conference on Training of Petroleum Workers in Underdeveloped Countries
	21632-33			Giroux Virtue	Nortran	AVTC, Fort Smith
143	21731-32			Giroux Virtue		Orientation program for northern trainees at AVTC, Fort Smith; possible applications

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180	27858-61	Sept. 7	YK	St. Eloi	MVPI	Availability of classroom accommodations at plant sites for training of joint programs (equal employers and union participation) most effective; welder, pipe-fitter and plumbing training, apprenticeship, native boys in apprenticeship system in British Columbia
	27872-73			Nessel Hodson	MVPI MVPI	Inter-Provincial Pipelines crash training program; one year lead time needed for crash training programs; industry training programs to upgrade workers
	27878-79			Nessel		Upgrading programs work well with on-the-job training facilities at Fort McMurray, Fort Smith
	27884			Hodson	MVPI	Training programs for northern residents; integrated into work force with southerners with same skills
	27936-40			Hodson Nessel	MVPI	Fort Smith, vocational training centre; "90 day wonders", basic training in 90 days; training period prior to start-up of construction crucial
	28024-30			Nessel St. Eloi Dyck Whiteford	MVFI MVPI MVPI	Role of unions and contractors in training process; number of trainees accommodated per spread; welding school, training program for pipefitters; success of pre-employment training
181	28044-51	Sept 8		McCambly	MVPI	Skill assessment, northerners preferred; counselling; on-the-job instruction; costs of transportation to facilities
	28063-65			McCambly		Financing; preference to northerner
	28073-74			McCambly		Possibility of locating facilities in northern settlements if further development
	28089-90			McCambly		Skill assessment, government involvement, utilization of skilled tradesmen
	28097-103			McCambly		Screening, assessment, counselling, location of facilities, pre-employment and on-the-job instruction
	28181			Mitchell	MVPI	Outreach programme places people in Keyano College
182	28252	Sept 9		Forth	MHA/NWT	Recommended that training programmes be only for skills in operations phase
	28292			McCombs	MHA/NWT	Recommended that mental health paraprofessionals be trained before pipeline impact
184	28535-37	Sept 14		Kehoe Atcheson	COIE/ITC COPE/ITC	Dilemma of keeping people in communities and instructing them to take on leadership roles
186	28842-46	Sept 16		Basham	MVPI	Apprenticeship training, Fort Smith Vocational Training Centre; Kenyano College program - Tar Sands
	28850-52			Basham		Emphasis should be placed on native training consistent with long-term employment
187	28981	Sept 17		Raddi	COPE	Hope that training programs will interest young people enough to eliminate excessive drinking
191	29819-20	Sept 24		Hagglund	MVPI	Training pilots for northern flying; training river pilots to travel through rapids
193	30141-42	Oct 5		Doyle	EPB	Training of senior and design review agency staff
197	31065-66	Oct. 13		Norton	MVPI	Environmental education to Alyeska construction workers
198	31160-65	Oct. 14		Gates	MVPI	Canada Manpower Training Program; Adult Vocational Training Centre, Fort Smith; apprenticeship training program, trainees' allowances, capital and operating costs; industrial training
	31178-89			Sterling	MVPI	Training and employment of northerners responsibility of NWT government; on-the-job training program for native people; native people trained in mining and petroleum industry
	31210-16			Witty	MVPI	Territorial government training positions; apprenticeship training section; housing maintenance program; special employment programs i.e. Gulf-Coppermine rotational employment scheme
	31267-72			Carnew Witty	MVPI	Adult Vocational Training Centre; number of trainees who go south for advanced training; pre-employment training programs; eligibility for apprenticeship; success rate of AVTC graduates

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198	31275-79	Oct. 14	YK	Carnew	MVPI	Training for pipeline and other jobs; funding of pipeline specific training; time needed to plan program
	31282-87			Carnew		Continuing Special Education Division's response to training needs, lead time needed; demands of pipeline construction necessitated driver training course at AVTC
	31292-93			Carnew		Training related to pipeline construction and operation: mechanical maintenance, heavy equipment operating and truck driving trades; future of AVTC
	31312			Gates	MVPI	Apprenticeship training program, ratio of native and non-native people, drop-out rate statistics
	31348-50			Witty	MVPI	Apprenticeship training program; journeyman status in housing maintenance; native proportion
	31393-403			Carnew Witty		Community response to health and social services programs; dental therapy program at Fort Smith; education programs for handicapped; vocation rehabilitation program; courses geared to trades rather than social services, AVTC; training people to work in mineral exploration, Keewatin and South Baffin regions; training for Coppermine employees
198A	31406-09	Oct. 14		Christie	MVPI	Alyeska Pipeline, administrative training to natives at professional levels; advance information on jobs; upgrading and skill training provided by unions; development of on-the-job training programs
	31421-23			Christie	MVPI	Counselling and orientation programs before northern residents begin work; hiring hall procedures, cross-cultural courses, camp life; native counsellors; problems due to lack of transportation
	31428-33			Nicholson	MVPI	Alaska Labourers Training Program, entry training for Alyeska; problem areas in training related to Alaskan native
	31434-46			Schulz	MVPI	History and purpose of Alyeska - Local 302, On-the-Job Training Program; responsibilities of training co-ordinators; formation of Screening and Selection Committee, Joint Training and Evaluation Committee, average ages and education of trainees; trainees' relationship to union, foreman; contractor training co-ordinator; wage scale; pre-job orientation; job site counselling; apprenticeship Program of Operating Engineers
	31448-51			Nicholson		Dropouts from Alaska Labour Training School, percentage Alaska native people; problems associated with training southern people; teaching rudimentary environmental concerns
	31457-58			Schulz		Entry into Alyeska Union On-the-Job Training Program, exposure to Operating Engineers Craft

TRANSPORTATION - AIR (1)

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XXXIII	4252	Apr. 21	YK	Dau	CAGPL	Personnel from Edmonton to nearest airstrip
	4271-72			O'Rourke	CAGPL	Air support available
XXXIV	4427-28	Apr. 22		Dau		Helicopters, location survey crews
	4452-53			Williams	CAGPL	Hercules aircraft, landing sites
	4472-76			Dau		Helicopters, aircraft, aerial surveys of migrating animals, noise levels
	4500-02			Carter	CAGPL	Aircraft lines of flight, and altitudes
XXXVII	4805-14	May 13		O'Rourke		Movement of men by commercial airplane, impact on general public; PWA, priorities, rates
XXXVIII	4820-21	May 14		O'Rourke		Aerial seeding by helicopters, fixed-wing crafts
	4961			Williams		Helicopter to transport location survey crews
40	5214-17	May 16		Hurd	CAGPL	Fixed-wing aircraft, helicopters for line patrol; five types
	5230-32			Hurd		Line patrol
	5263			Fielder	CAGPL	Movement to areas where maintenance required

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41	5291-99	May 20	YK	Carlson Hollingworth	CAGPL Foothills	Aircraft, ability to bring in industrial turbine; types of aircraft
	5308-11			Hollingworth		Line patrols, fixed-wing aircraft; helicopters
	5353-64			Fielder	CAGPL	Movement into a line break
	5369-72			Bayly	COPE/ITC	Air patrol, line breaks
42	5390-93	May 21		Fielder		Type C, Hercules; aircraft charters
	5431			Scott	MVPI	Start-up, increased traffic
	5438-43			Scott		Frequency of flights
	5451-62			Scott Hurd		Float-equipped aircraft; line patrols
46	6068	June 2		Craik	EPB	Fish sample survey
	6071-72			Craik	EPB	Fish, caribou and waterfowl surveys
47	6172-85	June 3		McT-Cowan	EPB	Effect of noise on birds, flight corridor
	6191			McT-Cowan		Control traffic to avoid disruption of staging, migration
	6212-24			McT-Cowan		Aircraft harassment; recommendation
	6285-87			Templeton	EPB	Lack of environmental specifications e.g. overflight
48	6389-91	June 4		McT-Cowan		Overflight regulations
C-I	50-51	Apr. 2	Aklavik	Ross	Citizen	Helicopter checking of relay stations
C-II	100-01	Apr. 3		Gordon	Citizen	Increase in activity in area. affecting caribou
C-11	1024	July 8	F. McP.	M. Firth	Citizen	Caribou; escalating cost of flying
C-16	1642-48	July 13	O. C.	P. Lord	Citizen	Caribou disturbed by aircraft
51	6797	Aug. 11	WH	Hemstock	CAGPL	Construction of air strips, mountainous areas along the Fairbanks, Fort Yukon Corridors difficulty in construction
	6845			Dau	CAGPL	Airports situated along Fairbanks, Fort Yukon Corridors
55	7647-50	Aug. 15		Banfield	CAGPL	Re: Weedon's testimony; establishment in Alaska of air transport facilities
C-21	2107	Aug. 9	NW	G. Loomis	Chamber of Commerce	Suitability of N. Wells to pipeline air traffic
	2157			G. Loomis		Airstrips in Norman Wells limit to expansion
	2191			R. Sinotte	Citizen	Self-sufficiency of Imperial Oil
C-22	2258-60	Aug. 11	WH	R. McRobb	Citizen	Transport Association of the Yukon; Gas to Communities
	2284			A. Netherton		International Jet Air - Yukon Service
63	9020-22	Sept. 17	YK	Mirosh	Foothills	Environmental effects of permanent airstrips as opposed to helicopter transport
	9049			Mirosh	Foothills	Weather restrictions could cause transport for repairs over winter roads
	9061			Mirosh		Sites at which helicopter travel solely used
65	9600	Sept. 19		Mirosh		Differences between Foothills & CAGPL requirements
66	9743-46	Sept. 22		Mirosh		Icings & visibility problems; capacity of helicopters; instrumentation
	9834-35			Mirosh		Helipads; radio beacons - unmanned servicing
67	9983-85	Sept. 23		Mirosh		Dependence on air transport; use of winter road
	10023-24			Mirosh		Components moved in by helicopter for maintenance
68	10054-57	Sept. 24		Hushion	Foothills	Types of helicopters; loads; air regulations re landing
	10094-95			Hushion		Use of helicopter as support transport to winter highway
	10100-04			Hushion		Limited use of helicopters
	10115-18			Hushion		Use of helicopters as access to compressor stations
72	10717-18	Oct. 15		Marshall Longlitz	CAGPL MVPI	Use of helicopters to bring in crew to clear vegetation; difficulty in access
75	11027	Oct. 20		Parker	CARC	Hercules used when traffic into Prudhoe Bay area was light
	11050-52			Weeden	CARC	Opening up previously wilderness areas; increased air traffic re: Interior route, alternative routes
	11105-22			Parker Weeden		Impact of helicopter and aircraft noise on caribou herds; caribou energy budgets

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77	11483-87	Oct.22	YK	Roed	CARC	Need for airports and facilities re: edge of the shield route
78	11534	Oct.23		Roed		Corridor concept; transportation facilities following one after the other
81	11964-70	Nov. 5		Dabbs	CAGPL	Seeding carried out by air transport
82	12146-54	Nov. 6		Dabbs		Impact on birds of aerial reseedling program
	12176-77			Williams	CAGPL	Transport by air not always possible for repair equipment
	12263-65			Williams		Disturbances caused by flights for operation and maintenance repairs
83	12333	Nov.7		Dabbs		Use of helicopter rather than fixed-wing aircraft for slope seeding
86	12867	Nov.13		Vaartnou	Foothills	Aerial seeding, revegetation
	12923-30			Vaartnou		Aerial seeding, revegetation
88	13343	Nov.17		Marshall	CAGPL	Report, aircraft movements, spreads
89	13411-44	Nov.18		Gunn	CAGPL	Disturbance of birds by aircraft
	13507			Hemstock	CAGPL	Bird disturbance, maintenance overflights
90	13621-33	Nov.19		Dabbs		Aerial seeding, revegetation
	13635-36			Gunn Dabbs		Aerial seeding, scheduling, animal disturbance
	13653-54			Gunn		Overflights, disturbance to birds, restrictions
	13732-33			Hemstock		Environmental monitoring from aircraft
93	14106-24	Dec.1		Gunn		Disturbance of airstrips, aircraft and helicopters; flight altitude
	14143-60			Gunn		Experiments on the North Slope; fixed wing aircraft and helicopter disturbance
	14175-80			Gunn		Aircraft experiments, harrassment and disturbance of snow geese
94	14250-359	Dec.2		Banfield Jakimchuk	CAGPL CAGPL	Disturbance and simulated noise experiments; access, operation and maintenance activities; construction; regulations as to frequency of flight, altitude and animal harrassment; helicopter seeding operations
	14340-41			Hemstock	CAGPL	Access; servicing facilities
95	14370	Dec.3		Jakimchuk		Access to caribou herds for hunting purposes
	14471-74			Hemstock		Altitude of aircraft flights over North Slope; weather; regulations and enforcement; helicopters and fixed wing equipment
	14488			Jakimchuk		Disturbance to caribou; more sensitive at other times in the year
	14508-18			Bayly Berger	COPE/ITC	Ministry of Transport; flight regulations - frequency, altitude, disturbance
97	14715	Dec.5		Marshall	CAGPL	Personnel movements by aircraft to spreads
	14729			Bell Jakimchuk	NWT IB/MA	As disturbance to moose
	14795-808			Templeton Gunn	EPB CAGPL	Restrictions of overflights, recommendations
	14812-16			Jakimchuk		Harassment of animals, overflights
	14875-81			Gunn		Airfield site locations, impact on birds, North Slope
98	14885	Dec.8		Scott	MVPI	Helicopter slashing oil storage bladder
	14900-11			Gunn		Aircraft as disturbance to birds; noise tests, North Slope
	14955			Jakimchuk		Restrictions during caribou calving, North Slope
99	15111	Dec. 9		Bouckhout	Foothills	Restricting overflights to compressor stations to minimize bird disturbance
	15150-52			Finney	Foothills	Government regulation, overflights that may disturb birds
100	15262-70	Dec. 10		Finney Bouckhout		Aircraft overflight restrictions, bird disturbance; harassment of mammals, present regulations

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106	16214	Dec. 18	YK	Calef	CARC	Disturbance re: caribou sensitivity during calving period
	16234			Calef		Aircraft disturbances re: effect on caribou
	16245-46			Lent	CARC	Muskoxen response re: loud noise of airplanes, helicopters
107	16301	Jan. 12		McT-Cowan	EPB	Fogs on the coast would cause flights at low altitudes, disturbance of wildlife
	16338			McT-Cowan		Overflying aircraft - altitude, disturbance to wildlife; Dr. Gunn's studies on snow geese
108	16412	Jan. 13		McT-Cowan		Experiments, refinement of techniques re: overflight disturbance and impact on caribou herds; altitude over herds, EPB, CAGPL recommendations
	16430-31			McT-Cowan		Altitudes of overflight, fog on the coast, disturbance of caribou
	16455-56			Templeton	EPB	Aircraft overflight altitudes - herd or scattered animals
	16510-11			McT-Cowan		Overflight altitudes and regulations; caribou herds; disturbance
109	16601-02	Jan. 14		Craik	EPB	Impacts of aircraft flight; frequency of air transportation
	16611-15			McT-Cowan		Establishment of flight corridors over the delta north of the line joining Aklavik, Reindeer Station and Sitidgi Lake; MOT concepts of air transport corridor; impacts; access
	16641-42			Templeton		Restrictions as to frequency, prohibitive at times, use
	16711-14			Templeton		Protection of birds re: aircraft disturbance
110	16761-62	Jan. 15		Bergerud	CARC	Aerial disturbance studies; Interior Route; Renewable Resources Consulting Services
	16806-11			Calef		DeBock, Gunn's studies, wildlife disturbance due to aircraft overflight
	16860-62			Calef Bergerud		Disturbance studies; calving, post-calving aggregation
	16894			Lent	CARC	Recommendations re: aircraft altitude over calving areas, post-calving aggregation
C-24	2447-48	Aug. 23	NB	Berger H. Deneron	Citizen	Wish to have the airport moved to widen and lengthen it; Inquiry's mandate
C-27	2736-37	Sept. 10	FS	Cowie	Citizen	Map re: registered traplines; work related to trapping re: decline
C-31	3019-20	Oct. 7	FR	Menez	Citizen	Development of, native employment in air transport
C-36	3513	Jan. 29	In	Mainland	GPC-D	At Taglu, Niglintgak, Parsons Lake
C-39	3721	Feb. 18		Hill	Citizen	Aircraft support for proposed Mackenzie Valley Pipeline Authority
	3729-30			Hill		Participation of northern aircraft operators during construction; request for Federal Government northern air policy
114	17293	Jan. 22		Mainland	GPC-D-I	Taglu gas field, flying only winter rapid transport; airstrip details
	17299			Mainland		Taglu gas field, resupply by aircraft
	17414-15			Mainland		Imperial's flight corridors, number, timing, height of flights into Taglu gas field
	17425			Faulkner	GPC-D-S	Niglintgak gas field, airstrip at existing Farewell staging area
	17440			Faulkner		Niglintgak gas field, Farewell staging area airstrip used, no strip at gas plant
115	17492	Jan. 23		Faulkner		Niglintgak gas field, no fixed wing airstrip; flights controlled within Kendall Island Bird Sanctuary; impact on nesting birds
	17565-68			Stamberg	GPC-D-G	Parsons Lake gas field airstrip, ice fog problems, size of strip, jet traffic, transporting material by air
116	17606-07	Jan. 24		Stamberg		Transportation of gas plant construction modules by air to Parsons Lake site, unsuitability
	17668-69			Webb	GPC-D	Response of whales to aircraft movement

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117	17763	Jan.26	IN	Wopnford	GPC-D-S	Flying restrictions for helicopters in Kendall Island Bird Sanctuary
	17779-87			Rempel Wopnford Appleton	GPC-D-I GPC-D-G	Aircraft traffic, limitations, height constraint, enforcement of constraints, infraction; flight pathways, impact modifiers
	17789			Wopnford		Rigs moved by helicopter within Kendall Island Bird Sanctuary
118	17927-30	Jan.27		Bayly Tod	COPE/ITC GPC-D-I	Upgrading of airport facilities, impact of development, higher fares, use of company aircraft, not chartered aircraft
	17987-88	Jan.27		Sider Tod Wopnford	GPC-D-G	Inuvik MOT airport, adequacy
	18096-97			Motyka	GPC-D-G	Plans to use Inuvik MOT airstrip, transfer of materials and personnel; permanent jet strip at Parsons Lake
122	18675	Feb.11		Sergeant	COPE/ITC	White whale response to aircraft activity
	18721-24			Barry	COPE/ITC	Measures to control aircraft in sanctuaries, delta, enforcement of controls
127	19396	Feb.11		Monaghan	COPE	Caribou, musk-ox disturbed by aircraft
	19420			Monaghan		Enforcement of flight level restrictions
129	19639-45	Feb.19		Speller	MVPI	Impact of development on aircraft, effects of aircraft on wildlife
	19694			Speller		Flight restrictions over bird santuaries, permit issued by Canadian Wildlife Service
130	19775	Mar.16	YK	Williams	CAGPL	Decision not to upgrade airstrips, additional ones required; STOL flights at commerical airports
132	20152	Mar.18		Williams		Helicopter transportation for men hand clearing ROW
133	20128-33	Mar.23		Rowe	CAGPL	Controls restrictions of flights to Delta compressor station
	20157			Webb	CAGPL	Restriction on landings at whaling camps, Shallow Bay
	20165-70			Gunn	CAGPL	Regulating flights on cross-Delta route to reduce wildlife disturbance
134	20231-34	Mar.24		Webb		Restricting air traffic over Shallow Bay to minimize impact on whales
	20329			Webb		Restricting low overflights to minimize impact on whales, Shallow Bay
	20381-82			Webb		Restrictions when whales present in Shallow, Makenzie Bays
135	20527-31			Hemstock	CAGPL	Supplying compressor stations by air, Delta area; restrictions
	20533-41			Hemstock		Impact on Delta; possible restrictions, controls, cross-Delta route
139	21158-62	Apr.7		Stephen	MVPI	CWS enforcement of air traffic regulations
	21180-202			Heacock	MVPI	Authority regulating, controlling aeronautics, flight restrictions in National Parks, aeronautical publications - aircraft avoidance of birds, herds of wild animals, flight altitude restrictions - aircraft, helicopters, control of aircraft using airstrips, flight frequency, future aircraft, activity, measures to reduce effects of aerial activities on wildlife; pipeline route - use as navigation aid, flight corridors, 2000 foot flight restriction, flying IFR, VFR, control of abandoned airstrip,notice to airmen
148	22709-10	Apr.29		Aesch	NWT IB/MA	Government granting air licence to provide service between Fort Simpson and Wrigley, but not between Wrigley and Fort Norman
153	23414	May7		Sharp	CYI	Airstrip built at Ross River
	23444-46			Sharp		Airstrip at Ross River, used by weekly scheduled flight, medical emergencies; lengthening of airstrip

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C-40	3881	Feb.23	AK	Arey	Citizen	Impact of airstrip on muskrat trapping
C-51	5079-81	May 12	VAN	Moul	Citizen	Transportation to hospital by air
C-52	5299-308	May 13	CAL	W. Milne	Citizen	Moving gas by airship; costs; research by Shell
C-55	5772	May 18	EDM	J. Barry	Citizen	Facilities of R. Angus Ltd., Edmonton
C-63	7110-15	June 1	MTL	Lafond	Citizen	Mirabel airport, expropriation issues
157	24063	July 5	YK	Hobart	CAGPL	Scheduled airline flights down Mackenzie River began in 1929
162	25074-75	July 13		Trusty	CAGPL	Arrangements made to avoid interference with capacity, services of schedule of airlines, charter services; increases in air traffic
163	25224-30	July 14		Trusty		Provisions to prevent encroachment on other traffic; rates; regulated industries; charter services
164	25415-16	July 15		Trusty		Use of local carriers
165	25513	July 19		Ellwood	Foothills	Routing of construction personnel to minimize social effects via existing airports
	25594-95			Reesor Ellwood	NWT/AM	Utilization of existing airports to move personnel, requirements for additional facilities
	25651-52			Lane Ellwood	COPE/ITC	Construction of holding area in airports
C-74	8301-02	Aug 13	RL	Father Amourous	Citizen	Noise pollution, animals leave area
170	26457-58	Aug. 16	YK	Jensen	Foothills	Air ambulance service, helicopters to be stationed at compressor stations and camps for emergencies
171	26568-71	Aug. 17		Burrell	Foothills	Cost of sending men to work areas from communities
172	26712-14	Aug 18		Dixon	MVPI	Calculations re number of in-migrants Alaska, difficult to calculate by counting air passengers alone
	26749-50			Dixon		Fairbanks, airport used as transportation drop-off point
173	26931-34	Aug 19		Dittrich	COPE/ITC	Inuvik, in town airstrip safety hazard
175	27262-66	Aug 23		Hinchey	NWT/CC	Air charter contracts; non-commercial carriers doing commercial operations is prohibited but not enforced; air worthiness certificates' requirements not stringent enough, recommendation to alleviate problems
	27321-23			Hinchey MacLeod	NWT/CC	Responsibility of MOT to ensure communities are supplied by air prior to pipeline contractors; licence base of carriers
177	27517	Aug 25		Galloway	NWT/AM	No training for fires at airstrips in smaller communities
180	27957	Sept 7		Nessel	MVPI	Availability of air transportation to move workers to and from job-site
	27974			Bayly	COPE/ITC	Foothills' proposal, workers moved directly from Inuvik Airport to camps
189	29377-78	Sept 22		MacLeod	NWT/AM	Joint program between NWT government and Transport Canada, development of rail transportation services; training program for airport maintenance and air to ground communication
190	29611	Sept 23		Roska	NWT/AM	Air service to Inuvik, from Inuvik to outlying settlements
191	29751-60	Sept 24		Hagglund	MVPI	Provided and controlled under Aeronautics Act; routes, terminals, operators, traffic flow; facility requirements of pipeline; airstrips, helipads, STOL strips; construction of air traffic control towers at Norman Wells and Hay River
	29813-19			Bayly Hagglund	COPE/ITC	Lead time for ordering additional aircraft; suitable and unsuitable aircraft for north; use of helicopters; shortage of pilots, maintenance and ground crews; training programs for pilots

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191	29841-45	Sept. 24	YK	Sigler Evans	NWT/AM MVPI	Involvement of community in airport facilities' decision
	29847-51			Rohr Evans Hagglund	Citizen MVPI	Priority for community transportation on resupply; bulk rates on PWA; hangar and storage facilities at Inuvik, Norman Wells, Fort Simpson, manpower requirements
193	30089	Oct 5		Hernandez	EPB	Aircraft flight corridors - routing should be north of line Sitidgi Lake to Reindeer Station May 15 - October 15, flight altitudes above 2000 feet; aircraft should avoid active eyries of raptorial birds March 1 - September 1, flight altitudes above 2000 feet
	30100-01			Hernandez		Recommendation - aircraft be prohibited within 2 miles of Mackenzie, Camsell Bend - Inuvik May 1 - June 15; Brackett Lake area - minimize air traffic May 15 - October 15, minimum altitude 2000 feet
	30105			Hernandez	EPB	Aircraft altitude over Dall sheep range - 2000 feet; eliminate traffic over wetland areas of Old Crow Flats May 15 - October 1
194	30352-53	Oct. 6		Hemstock	CAGPL	Historical review - air transportation in Mackenzie corridor
	30363-63			Hemstock		Historical development of air transportation on Yukon coastal plain
203	32163	Nov. 18		Veale	CYI	Old Crow Airstrip, increase in manpower to accommodate increased use
	32172-73			Veale		Regular air flights to Old Crow, delivery of goods to communities first priority; increase in freight rates; community high wages and prices

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XXIII	2700-01	Mar.21	YK	Williams	CAGPL	Helicopter, barge
XXIX	3673 3696	Apr.14		Purcell	CAGPL	Methanol barged to storage site Avoidance of pipe defects which may cause fractures
XXXI	3981	Apr.16		Reid	CAGPL	Transportation of methanol, testing
XXXII	4014-15 4100-02	Apr.18		McMullen Reid	CAGPL	Pattern projections for construction period - document Damage to pipe coating - risk of corrosion
XXXIII	4233 4247-64 4279-81 4334 4338	Apr.21		Dau Dau O'Rourke Dau Dau	CAGPL CAGPL	Barging from Hay River - summer '77 Logistics of moving by barge and road Pipe delivery period Tankers to transport fuel Pipe to ROW by winter road
XXXIV	4400-02 4451-53 4490 4502-06 4528	Apr. 22		Dau Williams Williams Dau O'Rourke		Barges, Mackenzie River Airlifting with Hercules aircraft. Snow road to Komakuk Beach Interior route, construction camp, truck hauling, barges Equipment, material needed, moved in winter
XXXV	4543-50 4590-4600 4614-18 4619-40	Apr. 23		Marshall O'Rourke Dau Williams	CAGPL	Interior route - movement of pipe via Skagway Bulk such as fuel for communities - 50% of total Mackenzie Highway - cost of moving materials Amount of material to be shipped, barge vs truck
XXXVII	4705 4713 4754-55 4773 4786-94	May 13		Genest O'Rourke Dau Dau O'Rourke	CAGPL	Impact on Yukon of shipment through Skagway and Whitehorse Points along coastal or interior route, Y.T. Landing strips, off-shore route From camp to work site and back again Will not barge pipe beyond Arctic Red River

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XXXVII	4796-4804 4805-14	May 13	YK	O'Rourke	CAGPL	Handling, transfers, movement by truck not rail
XXXVIII	4924-25 4951-53	May 14		O'Rourke		Pipe shipments, effect on local transportation
				Lucas	CARC	Logistics, Alyeska oil pipeline
XXXIX	5039 5054-55 5056-58 5063-64	May 15		Goudge	MVPI	Traffic, vehicle passes
				Dau		Use of wharves restricted during peaks
				Dau		Helicopters for personnel movement
				Dau		Materials passing through wharves and stockpile sites
				Dau		Fuel handling procedures
40	5214-15 5229-32 5353-54	May 16		Hurd	CAGPL	Movement from operating bases to compressor stations
				Hurd		Small amount of summer movement of heavy traffic
				Fielder	CAGPL	In case of line break
42	5449-51 5501	May 21		Berger		Yukon supply routes
				Hurd		Rolligons, A.C.V.'s, L.G.P.'s
43	5589-91 5703-05	May 22		Horte	CAGPL	Efficient movement
				Horte		
				Gibbs	Foothills	Logistics, placement of orders
44	5742-45	May 23		Bell	NWT IB/MA	Helicopter - supported route survey; local workmen; helicopters
45	5940-45	May 24		Berger		Shipping pipe
46	6107-17 6127-30	June 2		Adam	EPB	Terrain disturbance
				Bliss	EPB	Use of roads
49	6590-91	June 5		Horte		Increased pipe tonnage if thickness increased
C-4	184-186 239-252	May 28	Hay River	Williams	CAGPL	Stockpiling, double-jointing in Hay River
				Tetrault	Citizen	Movement of passengers, freight on Mackenzie River
58	8172-73	Aug. 20	YK	Blair	Foothills	Plans to prevent animal and wildlife harassment; alcohol use around aircraft use
51	6751-52 6754 6797	Aug. 11	WH	Berger		Amount of material to be transported, method of transportation, barge, highway
				Smith	Gov't Yukon	Use of transportation facilities to move equipment and materials
				Hemstock	CAGPL	Use of aircraft, barge and land; terrain along Fort Yukon and Fairbanks Corridors hinders construction of aircraft landing sites
52	6951-52 6971-87	Aug. 12		Hemstock		Access roads along Fairbanks Corridor
				O'Rourke	CAGPL	Logistics along alternate & prime routes
53	7163-71	Aug. 13		O'Rourke		Logistics of routes through the Yukon
54	7481-82 7534	Aug. 14		Weeden	CARC	Wharves, barges and stockpile sites
				Parker	CARC	Alyeska experience; access to construction site; all weather gravel roads
	7559			Parker		Alyeska Corridor; use of haul roads; costs to the state re: upkeep repair due to the pipeline project
C-22	2222 2258-60	Aug. 11		Berger		Outline of possible Yukon routes
				R. McRobb	Citizen	Transport Association of Yukon preliminary statement
C-23	2356	Aug. 14		C. Taylor	Citizen	Changes in modes
63	8996 9035-36 9047-49 9119-28 9139	Sept. 17	YK	Beer	Foothills	Turbines are light and compact, transportation is less costly and difficult
				Lazerte	Foothills	Problem of transporting water to camps if preferred site not permitted under the Inland Water Act
				Mirosh	Foothills	Weather restrictions concerning repairs to compressors; prevention of immediate helicopter flights to site
				Watterberg	Foothills	Choice of pipe manufacturer determines logistical decisions
				Shelton	Foothills	Care taken in shipping of pipe construction to prevent cracks

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64	9233	Sept.18	YK	Hushion	Foothills	Cost factors involved if delivery of pipe from off-shore delayed
65	9598-99	Sept.19		Mirosh	Foothills	Difference from CAGPL in tonnage requirements & logistics
66	9654	Sept.22		Kosten	Foothills	Movement of material to stockpile & later to work sites
	9661-63			Mirosh		Schedule of movement to wharves & stockpile sites; transport to work sites
	9713-16			Jarvis Kosten	Foothills	Movement of vehicles for construction along haul roads; completion of snow roads not necessary before movement on finished area
67	9897-99	Sept.23		Mirosh		Barge requirements & material transport - effects of lengthening construction schedule
	9982-91			Mirosh		Use of permanent winter road as complement to Mackenzie River transport; existence of such a road;
	10005-21			Mirosh		Tonnages; barging & logistics of transporting pipe & fuel
68	10044-46	Sept.24		Hushion		Foothills & CAGPL compared re airstrips, borrow & wharves
	10062			Hushion		Use of highway to supply Yellowknife & Simpson as administrative centres
	10111			Hushion		Maintenance requirements for barges
71	10603-08	Oct.14		Templeton Longlitz	EPB MVPI	Use of snow roads; work halted due to breakup; return of equipment from construction site during summer periods
	10616-17			Bayly Longlitz	COPE/ITC	Movement of vehicles and equipment; notification of location of construction activities
	10656			Bayly Longlitz		Snow road shutdown in the spring; close-up of operations; time needed to close-up
72	10717-31	Oct.15		Marshall Longlitz	CAGPL MVPI	Access provided by helicopters re: vegetation clearing crews; all-terrain vehicles; impact of vehicles on ice rich soils; difficulty in access; snow roads
	10765			Berger		Foothills plans to tanker in oil around Bering Strait to Tuktoyaktuk to build the pipeline
74	10971-11013	Oct.17		Williams	CAGPL	Snow roads; all-terrain vehicles; impact; shutdown and startup dates; soil and terrain information
75	11026-34	Oct.20		Parker	CARC	Snow roads in Alaska; vehicle movement; use of thin work pads; Alyeska haul road; Hickie highway; Fairbanks route
	11095			Marshall	CAGPL	Construction starts; movement along the line
76	11184-298	Oct.21		Parker Weeden	CARC	Use of barges, Alaska highway, Alyeska haul road to get supplies in; costs to the State of Alaska; gravel availability; Alyeska experiences
	11249			Parker		Use of winter road between Fort Simpson and Fort Nelson
77	11483-87	Oct.22		Roed	CARC	Edge of the shield route; logistics; use of Mackenzie River transportation benefits; air facilities
78	11563-643	Oct.23		Roed		Logistics; winter roads; costs; east of the Franklins; edge of the shield
	11568-75			Roed		Road transportation; corridor concept; use of Mackenzie River; Denison's Ice road; Great Bear, Great Slave Lakes; railway
80	11858-59	Nov. 4		Hemstock	CAGPL	Difficulties involved in East of the Franklin's route
	11873			Minning	CAGPL	Use of distant borrow sites
	11898-11901			Williams	CAGPL	Transport of material to the active flood plain for borrow operations
	11935-36			Williams Dabbs	CAGPL	Recommendations of vehicle pressures allowable after snow road studies
83	12391-400	Nov.7		Williams		Hauling gravel from bedrock site 20 miles from Thunder River, truck or barge; hauling rip-rap and pipeline weights
	12430-39			Scott Environmental Panel	MVPI CAGPL	Transportation of equipment, spread C gravel mining, scheduling
	12600			Bayly	COPE/ITC	Water hauling, Komakuk Beach camp, compressor station
85	12681-82	Nov.12		Bayly Hemstock	CAGPL	Methanol
	12691			Williams		Trucking water to camps

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86	12954-55 13010-12	Nov.13	YK	Lawrence Williams	Foothills CAGPL	Water hauling, camp sites Ice bridge, Swimming Point; camp placed by barge, men by air
92	14017-19	Nov.21		Bayly	COPE/ITC	Use of Tuk Harbour as staging area; fear by inhabitants of potential impact on fish
93	14158-61	Dec.1		Hemstock Gunn	CAGPL CAGPL	Barging material for North Slope construction; contingency plans in case of work slowdowns or strikes
94	14173-80 14243-44	Dec.2		Gunn Hemstock		Materials brought across the Delta; snowgeese habitat; aircraft use and harassment Scheduling of events; critical environmental periods- calving; work shutdowns
95	14414-51 14458-60	Dec.3		Banfield Hemstock	CAGPL CAGPL	Critical path method; work stoppages, construction scheduling; access; environmental and management personnel
96	14590-644	Dec.4		Banfield		Use of Mackenzie and Dempster highways, Mackenzie River
97	14723-34	Dec.5		Jakimchuk		Supply and movement of equipment to the spreads; route selection, disadvantages to the interior route; caribou/construction interaction; Dempster Highway; snowroads; heavy vehicle use
98	14975-76 14984-15006	Dec.8		Scott Jakimchuk Environmental Panel	MVPI CAGPL	As disturbance to moose Caribou herd contact with transportation movements Restrictions on human activities during construction on highways
99	15134-35	Dec.9		Whitney	Foothills	Impedence of moose movements, Mackenzie River islands
106	16168	Dec.18		Lent	CARC	Prudhoe Bay construction of gravel causeway re: unusual ice conditions
107	16301-02	Jan.12		McT-Cowan	EPB	Use of the Dempster Highway
108	16486-90	Jan.13		Adam	EPB	Snow roads; schedules and loadings are far in excess of anything that has yet been undertaken in the north
C-25	2479-83	Sept.8	FS	Erion	NWT CC	Highway, post-construction re: development staging point for Mackenzie
C-30	2892-93 2909-10	Oct.6	PP	Osing Mirosh	Citizen Foothills	Mackenzie Highway, railway Highway, railway, water, right-of-way utilization
C-37	3567-68	Feb.10	In	Workman	CAGPL	Transport of workers into, out of camps to minimize community impact
112	17077-78	Jan.20		Bayly Bliss	COPE/ITC GPC-D	Transporting materials to Parsons Lake via Liverpool Bay, Husky Lakes, an important whale area
114	17289 17304-05 17307-12 17343 17425 17439-40	Jan.22		Mainland Mainland Mainland Faulkner Faulkner	GPC-D-I GPC-D-S	Taglu gas plant, storage tanks, restocking by barge; borrow material from Ya Ya Lake; aircraft use; dock; shipping modular construction units; barging Taglu gas field, shipping material, equipment on barges Taglu gas plant, barging in equipment, materials, impact on transport systems, rates, capacities Transporting sand from Big Horn Point Niglintgak gas field, flights go to Farewell staging area strip Niglintgak gas field
115	17446-49 17449-53 17492 17513 17517-18 17549-57	Jan.23		Faulkner Faulkner Faulkner Faulkner Faulkner Faulkner Stamberg Scott	GPC-D-S GPC-D-G	Niglintgak gas field, barging material by river, sea; tonnages Niglintgak gas field, using N.T.C.L. for barging materials down Mackenzie; sharing barges with other users Niglintgak gas field, helicopters only to get men to facilities Niglintgak gas field, tonnages to be barged Have not considered using Mackenzie or Dempster Highways Parsons Lake gas field, methods, tonnages, common carriers on Mackenzie River

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115	17555-57	Jan.23	In	Scott	GPC-D-G	Hay River or Fort Simpson as possible staging area for shipping to Parsons Lake; possible barge use conflict with local users
	17583-86			Stamberg	GPC-D-G	Parsons Lake gas field, transporting construction modules, special road needed, timing
116	17606-12	Jan.24		Stamberg Scott	GPC-D-G	Transportation of construction modules to Parsons Lake via Husky Lakes, possibility of dredging or scaling Husky Lakes to accommodate traffic, company or government responsibility
	17623			Berger Stamberg		Transportation of construction materials by barge via Husky Lakes to Parsons Lake site; lack of alternate routes
	17625-26			Stamberg		Equipment requirements, safety standards for local transportation of construction materials
	17701-02			Appleton	GPC-D-G	Transportation of fuels to Parsons Lake development, winter road and barge; environmental impact
117	17763	Jan.26		Wopnford	GPC-D-S	Personnel transportation by helicopter to site, flying regulations, restrictions into sanctuary
	17819			Rempel	GPC-D-I	Barge transport of fuel
	17843			Wopnford		Improvement of transportation system if secondary industry
	17870			Bell Wopnford	NWT-IB/MA	Barges, conventional supplies displaced by construction materials
118	17920	Jan.27		Sider	GPC-D-G	Transportation of personnel in Alaska, union problems
	17988-89			Sider		Use of Inuvik MOT airport for materials and personnel transport to Parsons Lake; Mackenzie Highway used by commuting Parsons Lake employees
	18096-97			Motyka	GPC-D-G	Plans to use Inuvik MOT airstrip, transfer of materials and personnel; permanent jet strip at Parsons Lake
130	19774-76	Mar.16	YK	Williams	CAGPL	Axe Point, staging area, transportation by barge; wharves and stockpile sites
131	19959-64	Mar.17		Williams		Transportation of gravel for backfill of Delta river crossings
132	20109-110	Mar.18		Williams		Barging materials for Delta construction; dredging to accommodate
	20152			Williams		Men clearing ROW transported by helicopter
134	20247-50	Mar.24		Webb Scott	CAGPL MVPI	Boat, air traffic, impact on whales, Shallow Bay crossing
	20324-29			Webb Gunn	CAGPL	Possible impact of gravel barging on whales, birds, Shallow Bay
	20341			Gunn		Would like to restrict barge use on North Slope more than in Delta
	20363			Webb		Concern for barging gravel, Shingle Point
135	20525-27			Hemstock	CAGPL	Gravel hauling; west Mackenzie and Shallow Bays; supplying compressor station CD-08
162	25066-67	July 13		Trusty	CAGPL	Movement of southern personnel to job site by air; staging sites to be located in the south
	25072-74			Trusty		Measures to be taken to prevent interference, community resupply, movement of essential goods
164	25464-68	July 15		Trusty		Logistics personnel scheduling movements in and out of airports
165	25513	July 19		Ellwood	Foothills	Routing of construction personnel to minimize adverse social effects via existing airports; transportation to point of hire provided; casual transportation not available to camp workers
	25594-96			Reesor Ellwood	NWT/AM Foothills	Utilization of existing airports to move personnel; impact on Hay River resulting from increased barge traffic, rail and truck traffic
	25651-52			Lane Ellwood	COPE/ITC	Construction of holding area in airports

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171	26521-22	Aug. 17	YK	Burrell	Foothills	Proposes to pay costs of moving workers in and out of community
	26568-71			Burrell		Cost of sending men to work areas from communities
178	27600-02	Aug. 26		Merrett	MVPI	How number of vehicles needed varies with scheduling
179	27754-57	Aug 27		Runge		Costs for sending housing materials to communities
	27776-77			Lowing		Hay River central location for dispersement of housing packages
181	28188	Sept 8		McRae		Costs are not controlled
	28192			McRae		Poor system, must be upgraded
	28222-23			Bayly McRae	COPE/ITC	New roads may bring problems to communities; need more transportation facilities if there is a pipeline
190	29612-15	Sept 23		Roska	NWT/AM	Upgrading of facilities to meet possible development; existing problems of transportation; potential problem areas
191	29757-60	Sept 24		Hagglund	MVPI	Men and material transported during winter construction periods; Foothills' plans to use fixed-wing aircraft to move personnel and supplies
	29783-95			Hagglund	MVPI	Cargo distribution on Mackenzie River system; freight cargo forecasts; increase in resupply and exploration cargoes; Arctic Gas and Foothills' logistics, delta gas plant logistics; estimated cargo tonnages for construction to be delivered by river; tow requirements; total capacity of river floating equipment
	29812-16			Bayly Hagglund	COPE/ITC	Lead time for ordering barges and tugs, additional aircraft; use of helicopters
	29845-51			Hawryszko Evans Hagglund Rohr	MVPI MVPI Citizen	Manpower requirements for expanded facilities at Enterprise, Hay River; priority for community transportation and resupply; PWA bulk rates; hangar and storage facilities at Inuvik, Norman Wells, Fort Simpson, manpower requirements
194	30390-97	Oct. 6		Hemstock	CAGPL	Contingency plans for disruption of barge transport on Mackenzie River north coast
195	30453-54	Oct. 7		Mirosh	Foothills	Amendments to logistics plan
	30655-58			Dau	CAGPL	No problems expected if shipping delays occur on North Slope

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XVI	1849-50	Mar. 12	YK	Dau Anthony	CAGPL CARC	Railroad system, consideration in route selection
XXXIII	4248-51	Apr. 21		Dau		Rail to Hay River, then barge or road
	4255-58			O'Rourke	CAGPL	White Pass and Yukon Route
	4264-65			O'Rourke		Increased network south of 60°
	4279-81			O'Rourke		Suitability of flat cars
	4366-67			Dau		Board or case crossing under railroad
XXXIV	4510-14	Apr. 22		O'Rourke		Pipe movement, Vancouver to Edmonton: White Pass Railway; CN rates
XXXVII	4714-18	May 13		O'Rourke		Material moved by rail to Hay River - Enterprise area; Skagway to Whitehorse
	4790-4800			O'Rourke		Barging, no rail movement of materials
	4808-09			O'Rourke		Airlines, railways, cheaper to carry freight than to carry passengers
45	5942-45	May 24		Bayly	COPE/ITC	Railroad to Hay River
C-5	392-395	May 29	Hay River	Tetrault	Citizen	Standards, licencing of masters and mates
C-6	529-530	May 30		F.Norn	Citizen	Hay River people promised jobs on Great Slave Railway

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52	6971-87	Aug.12	WH	O'Rourke	CAGPL	Role of railway in logistics of various corridors
53	7164-71	Aug.13		O'Rourke		Use of White Pass & Yukon railway
54	7520-21	Aug.14		Parker	CARC	Alaskan railway and highway corridors
	7533			Parker		Alaskan transportation corridors; planning
C-22	2241	Aug.11		D. Lloyd	Citizen	Revegetation studies - Arctic railway
	2258-60			R. McRobb	Citizen	Yukon Transport Association preliminary statement
61	8607	Sept.15	YK	H.L. Stevens	USWA	Railway alternative needs to be studied; long term development for the north
63	9128	Sept.17	YK	Berger		Foothills will transport pipe to Hay River by rail
65	9600	Sept.19		Mirosh	Foothills	Differences between Foothills & CAGPL requirements
67	10015-21	Sept.23		Mirosh		Material transport by rail to Enterprise, by truck to staging points
76	11291-95	Oct.21		Parker	CARC	Corridor concept; route selection; purpose and function of a transportation facility and route; Alaskan experience, North Commission created by Commissioner Hickie re: railway and road system
77	11470	Oct.22		Roed	CARC	Edge of the shield corridor; alternative uses; transportation of minerals and ores, re: a railway, perhaps with a termination point at Pine Point
78	11533-34	Oct.23		Roed		Railway, followed by a highway through Banff National Park; transportation facilities following one after the other
	11574			Roed		Transportation of minerals, use of railway
106	16197-201	Dec. 18		Calef	CARC	Hudson Bay Railroad re: migration of Kaminuriak caribou herd; Churchill Railway re: contribution to decline of caribou; Scandinavian study re: annual reindeer mortality; Klein study re: interruption of caribou migration by rail; Shefferville Railway re: disturbance to caribou
108	16574	Jan. 13		Marshall	CAGPL	C.N. mainline goes through Jasper Park
110	16763-65	Jan. 15		Bergerud	CARC	Newfoundland herd; railroad built across the range; access; Ungava herd - railway built at Knob Lake or Schefferville; Kaminuriak herd
C-25	2588-90	Sept. 8	FS	Lamothe	Citizen	Railroads - socio-economic impact
C-30	2889	Oct. 6	PP	Osing	Citizen	Pine Point Mines line
	2892-93			Osing		Utilization re: pipeline materials
	2922			McConnell	Citizen	Ore transport to smelting site
	2930-31			Berger		Transportation, energy corridor concept
	2942			Osing	Citizen	Pipeline materials transport
	2943-44			Reed	Citizen	Debate on railway route re: ore removal
	2956-58			Bolmer	Citizen	Rail extension along corridor re: community supplies, employment benefits
C-32	3058-59	Oct.8	FR	Mandeville	Citizen	Support for railroad re reduction of freight and fare rates
	3067			McConnell	Citizen	Canadian Pacific Railroad re Pine Point, Dene land
C-33	3187	Oct.9	FS	Applewhite	Citizen	Railroad from Pine Point to Rome, Alberta re training and hiring policy
117	17906	Jan.26	IN	Berger		Great Slave Railway, unsuccessful training program
146	22242-45	Apr.27	YK	McCullum	NWT IB/MA	Construction of a branch of the CNR through Nishga land in B.C.
	22270			Jones	NWT IB/MA	Grand Trunk Railway, CNR in Upper Skeena River Valley
	22325-48			Page	NWT IB/MA	History of building of CPR; effects on native land, treaties; Riel Rebellion
147	22351	Apr.26		Page		Coming of the CPR, decline of buffalo, Riel Rebellion
151	23095-96	May5		McClellan	CYI	Building of White Pass and Yukon Railway
	23134			Cruikshank	CYI	1940's proposed railway instead of Alaska highway

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C-47	4563-64	Mar.13	ARR	N. Norbert Berger	Citizen	Alternate way to transport gas
C-50	4860-64	May 11	VAN	Holmes	Citizen	White Pass and Yukon Corporation Ltd. involved in construction of Skagway - Whitehorse railroad
C-51	5085	May 12		S.C.W. Stokes	Citizen	Suggested use to transport gas
C-55	5802-04	May 18	EDM	R. Dion	Citizen	Railroad instead of pipeline; provisions for employment; government subsidy
C-59	6499	May 26	TOR	D. Matthews	Citizen	CPR, impact on Canada, similarities with the pipeline
C-60	6626-27	May 27		S. Bank	Citizen	Speculation about Inquiry into building CPR, one hundred years ago
C-63	7168-70	June 1	MTL	Jones	Citizen	CPR railway, historical background issues
168	26102-03	July 22	YK	Brody	COPE/ITC	Native emigration to work on Great Slave Railway
190	29658-59	Sept 23		Fergusson	NWT/AM	Great Slave Railway accelerated growth of Hay River
191	29739-51	Sept 24		Hagglund	MVPI	Great Slave Lake Railway, White Pass and Yukon Railway, may be used to transport pipeline material; operating characteristics, routes, terminals, operators, traffic flow; role of railways during pipeline construction
	29845-47			Hawryszko	MVPI	Additional manpower requirements for expanded facilities at Enterprise, Hay River

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XVI	1848-49	Mar.12	YK	Dau Anthony	CAGPL CARC	Highway systems, consideration in route selection
XXXIII	4252-57 4258-64	Apr.21		Dau O'Rourke	CAGPL	Winter road over Dempster route Barging preferred by cost
XXXIV	4402 4504-05	Apr.22		Dau Dau		Hauling gravel, snow roads/all-weather roads All-weather road from the Dempster Highway
XXXV	4544-50 4617-21 4627	Apr.23		O'Rourke Dan O'Rourke		Dempster route - volume of truck traffic Reduce capital cost with all-weather road Use of Highway - interruptions at river crossing
XXXVII	4787-4800	May 13		O'Rourke		Barge to truck transfer, Dempster Highway and Arctic Red River
40	5263-70	May 16		Fielder	CAGPL	L.G.P. vehicles
41	5299-08	May 20		Fielder		ACV, Inuvik; L.G.P. vehicles
42	5389 5396-98 5410-17 5501-07	May 21		Fielder Fielder Fielder Scott Hurd	MVPI CAGPL	L.G.P. vehicles L.G.P. vehicles rather than aircraft patrols L.G.P. vehicles, U.S.S.R. Highways trucks, transport of other vehicles
46	6105-08	June 2		Templeton	EPB	Effect of right-of-way traffic on slope stability
51	6845 6873-81	Aug.11	WH	Dau Hemstock	CAGPL CAGPL	Alaska Highway, access to Fairbanks Route from Prudhoe Bay south to Fairbanks Location and access to highway re: alternative routes; incremental environmental impact; synergistic and multiplicative effects
52	6971-87	Aug.12		O'Rourke		Road use in logistics of various routes
53	7113 7194-06	Aug.13		Banfield Sprecker	CAGPL CYI	Impact on wildlife Traffic on Richardson Highway due to Alyeska
54	7458	Aug.14		Weeden	CARC	Transportation facilities; snow and ice road construction, Fairbanks, Fort Yukon Corridors
55	7339-45	Aug.15		Morlan	CARC	Winter road to Old Crow caused archaeological site damage; Klondike highway should prove to be a productive area for archaeological sites; Alaska highway re: Fairbanks Corridors possible archaeological sites

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C-22	2258-60	Aug.11	WH	R. McRobb	Citizen	Preliminary statement of Yukon Transport Assoc.
C-23	2302-03	Aug.14		D. Greg	Citizen	Impact of Skagway - Carcross
	2307-08			R. McKaymie	Citizen	Road to Inuvik - routing of pipeline
63	8980	Sept.17	YK	Lazerte	Foothills	To facilitate equipment and personnel movement re: compressor stations
	9062-65			Mirosh	Foothills	Helicopter pads in addition to permanent roads
65	9601	Sept.19		Mirosh		Accessibility of Axe Point from Mackenzie Highway as transfer area; movement of material from Hay River to staging areas by winter road
67	9984-91	Sept.23		Mirosh		Hopes of using former permanent winter road from Yellowknife to Inuvik
	10011-21			Mirosh		Alteration in barge requirements - effect on transport by truck
	10015-21			Mirosh		Material transport by road from Enterprise to Ax Point, Dory Point, Poplar Landing
	10056-57			Hushion	Foothills	Use of helicopters as complement to ground transport; access roads
	10112			Hushion		Use of roads or barges for O & M transport
75	11050-52	Oct. 20		Weeden	CARC	Opening up of Alaska by Interior coastal and alternative route; access and haul roads in previously wilderness area
76	11160-62	Oct. 21		Parker Weeden	CARC	Traffic which the road brings in, part of the cumulative effect; pipeline facilities; duplication of facilities if another corridor is created
	11183-298			Parker Weeden	CARC CARC	Alaska highway; transportation of men, materials equipment; costs of a highway system
78	11533-34	Oct.23		Roed	CARC	Trans Canada highway through Banff; corridor concept, transportation facilities following one after the other
	11564-64B			Roed		Winter roads
82	12172	Nov. 6		Williams	CAGPL	Example of Alaska haul roads; grades of roads along interior and coastal routes
85	12727	Nov.12		Scott	MVPI	Impact assessment requirements, Mackenzie Highway
86	12960-61	Nov.13		Lawrence	Foothills	Haul roads to camp water sources
89	13500-01	Nov.18		Jakimchuk	CAGPL	Caribou using roads, slide show
90	13646	Nov.19		Hemstock	CAGPL	Winter Road, Mackenzie Valley, helped shape present corridor location
91	13783	Nov.20		McCart	CAGPL	Comparison of road miles in prime route, Fairbanks corridors
	13909			McCart		Impact of road siltation on fisheries
94	14340-41	Dec.2		Hemstock		Access and road construction; interior route; servicing pipeline facilities
99	15060-61	Dec. 9		Banfield	CAGPL	Impact on wilderness values of an area
100	15258-61	Dec. 10		Hayden	Foothills	Culverts under roads, obstruction to fish movements
101	15482-84	Dec. 11		Zoltai	CARC	Roads across fenland
111	16941	Jan. 16		Lent	CARC	Scandinavian experience with reindeer - road interaction
C-25	2605-09	Sept. 8	FS	A. Lamothe	Citizen	Car design - man hours re: transport speed
C-32	3058-59	Oct.8	FR	Mandeville	Citizen	Support for highway along pipeline
C-33	3105	Oct.9	FS	Evans	Citizen	Alternative highway to relieve pressure on Mackenzie Highway
	3200			Christiansen	Citizen	Use of highway, possible ruin by excessive traffic
116	17607	Jan.24	In	Stamberg	GPC-D-G	Transportation of gas plant construction modules by road to Parsons Lake site
145	22124-30	Apr.26	YK	Clarke	NWT IB/MA	Transnational corporations involved in the building of major highways in Amazon region of Brazil; government incentives; conflict over land rights with native people; government tactics to free Indian lands for highway, construction
	22180			Smith	NWT IB/MA	Impact on native people of roads being built in the Amazon basin
	22270			Jones	NWT IB/MA	Highway development in Upper Skeena River Valley

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147	22501-503	Apr. 28	YK	Nahanni	NWT IB/MA	Travel routes and roads used by Dene hunters and trappers, importance
148	22586 22709	Apr. 29		Snowshoe Asch	NWT IB/MA NWT IB/MA	Dempster Highway, concern over native treatment Mackenzie Highway ending at Wrigley despite the peoples disapproval
151	23096 23105-06	May 5		McClellan McClellan	CYI	Road system of the Yukon prior to the building of the Alaska highway Native people, travel on Alaska highway; car accidents
153	23412-14 23443-44	May 7		Sharp Sharp	CYI	Canol Road built 1943-1944 Reopening of North and South Canol road, 1962, impact on Ross River
C-44	4315	Mar. 9	TUK	Raddi	Citizen	Social impact of road to Inuvik, bootlegging
157	24065	July 5	YK	Hobart	CAGPL	Completion of Mackenzie, Dempster and Liard Highways
162	25075-76	July 13		Trusty	CAGPL	Trucking services; effect on highway, road system
163	25240-41	July 14		Trusty		Increased trucking, suggested CAGPL support of maintenance
168	26083-84 26235	July 22 July 23		Brody Stanley	COPE/ITC NWT IB/MA	Arctic Bay Council, against road linking community with Nanisivik minesite Problems on Oglala Sioux reserve at Pine Ridge
C-77	8406	Aug 26	DET	M. Betsina	Citizen	Like to see highways paved
170	26486-87	Aug 16	YK	MacLeod	Foothills	With no proper road linkage there is a deterrent to travel south
172	26712-14	Aug 18		Dixon	MVPI	Alaksa, difficult to calculate numbers of in-migrants coming by road
173	27003-04 27016-17	Aug 19		Dusel	NWT/AM	Fort Simpson, present roads, future construction requirements, cost Hay River, building cost, Hay River highway
175	27242-43 27267-68	Aug 23		MacLeod Hinchey	NWT/CC NWT/CC	Key to economic development-opinion of NWT/CC: recommended that Dempster Highway be extended, except unfinished portion to allow pipeline construction and to prevent transient movement; all weather road between Inuvik and Tuktoyaktuk; bridge across Mackenzie River on MacKenzie Highway; upgrading of NWT portion of Mackenzie Highway Granting of authority to NWT based trucking firms for operations on Alberta and B.C. highways; revision and notification of Highway Transport Board regulations
	27303-04			MacLeod	NWT/CC	Rationale for building all weather road between Inuvik and Tuktoyaktuk, granular requirements
189	29378A-79	Sept 22		MacLeod	NWT/AM	Road maintenance grant from Territorial government; capital grant for road and sidewalk construction
190	29598 29611-12 29631-33	Sept 23		Wasyk Roska Roska	NWT/AM NWT/AM	Fort Simpson bus service; developing Fort Simpson as a transportation centre Mackenzie Dempster Highway linking Inuvik, Arctic Red River and Fort McPherson Lead time needed to fulfill transportation requirement
191	29760-70	Sept 24		Hagglund	MVPI	Responsibility of DIAND; existing and proposed roads: Dempster Highway, Mackenzie Highway; winter roads: Yukon road system: Alaska Highway, Haines Junction, Carcross Skagway; bridges, river crossings, ferry services; standards, licencing of trucks; highway equipment to be used to transport pipe; traffic flow; road conditions; increase in transportation costs expected

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191	29824-32	Sept 24	YK	Sigler Prefontaine	NWT/AM MVPI	Road network improvement plans; Dempster Highway, Carcross Skagway Road; source of gravel requirements; road traffic; cost of maintenance
	29851-54			Hawryszko Prefontaine		Manpower requirements for terminal and control vehicles; trucker capacity; preference to local needs, no legislation
197	31154	Oct. 13		Berger Norton	MVPI	Future of haul road north of Yukon to be decided by Alaska Growth Policy Council

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XVI	1848-49	Mar.12	YK	Dau Anthony	CAGPL CARC	Barge system, consideration in route selection
XIX	2197 2205	Mar.17		Williams	CAGPL	Sans Sault test site; moving equipment via Mackenzie River; access road from River to site
XXXIII	4248-50 4265-71 4273-79 4331	Apr.21		Dau O'Rourke O'Rourke Dau		Barge by Mackenzie River Mackenzie River barging system Increase present barge capacity by 25% Fuel to storage sites primarily by barge
XXXIV	4400 4503-12 4518-21	Apr.22		Dau Dau Hollingworth	Foothills	Barges, Mackenzie River Barges, Mackenzie River, additional needed, economic factors Barge and tug contractors
XXXV	4543 4590-4600 4620-40 4632-40 4643-44	Apr.23		Marshall O'Rourke O'Rourke O'Rourke	CAGPL	Pipe by barge to Arctic Red River from Hay River Mackenzie River Barge system - fuel Tonnage by barge number of barge and tugs Lead time to finance and construct barges Barge capacity
XXXVII	4716-20 4723-34 4790-4800 4811-14	May 13		O'Rourke Bell O'Rourke Bayly	NWT IB/MA COPE/ITC	Pipe shipment to Skagway by ship; barging of pipe Barge traffic, Mackenzie River Barging/rail movement of materials N.T.C.L., barging rates
XXXVIII	4831 4919-22 4961	May 14		Williams Lucas Williams	CARC	Barging, movement of snow harvesting equipment during the summer Demobilization of camp, barging Barges as housing for location survey crews
XXXIX	5063-64	May 15		Dau		Fuel requirements barged to storage tanks
40	5219 5268-69	May 16		Hurd Fielder	CAGPL CAGPL	Barging Towing vehicles
41	5302-08	May 20		Fielder		Movement of ACV across water
42	5389-90	May 21		Bayly	COPE/ITC	Vehicle that doubles as wharf
44	5765-66	May 22		Bell	NWT IB/MA	Expansion of existing barge system, Mackenzie River
45	5942-45	May 24		Bayly		Shipping, Great Lakes, Panama Canal
C-I	52	Apr.2	Aklavik	Ross	Citizen	Tankers, icebreakers
C-II	120-21	Apr.3		Edwards	Citizen	Hovercraft, whales
C-4	218-219 224-236 238-258	May 28	Hay River	Maydonik Neufeld Tetrault	NWT CC Citizen	Barging industry, Hay River Barge construction in Hay River in 1974 Marine transportation industry
C-16	1574	July 13	O.C.	H. Richter	Citizen	Barges on the Mackenzie River
59	8425 8478-80	Aug. 21	YK	Gillespie Marshall Fawcett Lane	Foothills CAGPL Foothills COPE/ITC	Foothills; barge operation on the Mackenzie Policy matters; consultation with communities; use by Foothills; concern expressed by communities of Tuktoyatuk as to barge use on Husky Lake
51	6792	Aug.11	WH	Hemstock	CAGPL	Barge transport favoured in construction of mainline route
52	6971-87	Aug.12		O'Rourke	CAGPL	Use of barges in logistics of various routes

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53	7163-71 7187-89	Aug.13	WH	O'Rourke D. Joe	CAGPL CYI	Logistics of barging in alternative Yukon Corridors Impact of boat industry & barging on Yukon
54	7533	Aug.14		Parker	CARC	Alaskan transportation corridors; planning
C-21	2161-62	Aug. 9	NW	P.Tourangeau	Citizen	Delivery of materials
63	9128	Sept.17	YK	Berger		Elicits that Foothills will barge pipe down Mackenzie from Hay River
65	9600-04	Sept.19		Mirosh	Foothills	Differences between Foothills & CAGPL requirements; barging system down Mackenzie; proposal to supply fuel by tanker from Beaufort Sea
67	9898-99 9973	Sept.23		Mirosh Mirosh		Impact of lengthened schedule on barge requirements Removal of residues by barges; isolation or distillation of residues
68	10006-21 10045-46 10109-13	Sept.24		Mirosh Hushion Hushion		Logistics of barging; tonnages & ranking Wharf requirements of CAGPL & Foothills Requirements for barges during maintenance phase; tonnage of fuels & parts during maintenance
75	11027	Oct. 20		Parker	CARC	Use of barge re: development of Prudhoe Bay field
76	11183-86	Oct. 21		Parker		Barging in of supplies re: Alyeska; seasonal; costs
77	11372-73 11425 11484-87	Oct. 22		Marshall Rutter Roed	CAGPL CARC CARC	Mackenzie River as a major transportation facility Mackenzie River, water transportation facility Use of Mackenzie River transportation benefits re: edge of the shield route
78	11534 11570-75	Oct. 23		Roed Roed		Corridor concept; transportation facilities following one after the other Mackenzie River; Great Bear and Great Slave Lakes
81	12079	Nov. 5		Minning		CAGPL prepared to barge borrow material across river
93	14151-60	Dec.1		Gunn	CAGPL	Barging of materials, wharf sites; impact on water-fowl
95	14427 14459-60	Dec.3		Berger Banfield		River provides a summer highway Use of Mackenzie - barge traffic
96	14619-28	Dec.4		Veale Jakimchuk Marshall	CVI CAGPL	Mackenzie River; transport of construction materials; Wharf sites
98	14909-11	Dec.8		Gunn	CAGPL	Bottom Sampling from barge, Shallow Bay
100	15313-14	Dec. 10		Hayden	Foothills	Boat traffic will avoid commercial, domestic fisheries activity
101	15398-99	Dec. 11		Finney	Foothills	Need for study re: impact of barging on waterfowl
103	15833-38	Dec. 15		Stein Marshall	CARC CAGPL	Mackenzie River re: logistics support facility, access roads
C-26	2629-31 2662	Sept. 9	FS	Modeste P. Nahanni	Citizen Citizen	Scow re: arrival of treaty party at Fort Simpson; barges re: freight Travel routes of trappers re: overlap
C-30	2899 2909-10	Oct. 6	PP	Carter Mirosh	CAGPL Foothills	Pipeline utilization Re: railway, highway use
C-31	3019	Oct. 7	FR	Menez	Citizen	Native employment in, white takeover of water transport
C-33	3105 3191-92	Oct.9	FS	Evans Church Berger Mirosh Carter	Citizen Citizen Foothills CAGPL	Northern Transportation Company Limited, Bell Rock, waterways Slave River system - transportation potential
	3200-01			Christiansen	Citizen	Use of waterways from Fort McMurray, to Fort Fitzgerald, from Bell Rock
C-39	3710-13 3728	Feb.18	In	Robertson Hill	Citizen Citizen	Northern Transportation Company Limited, amortization of equipment; private companies, Kaps, accelerated depreciation Northern Transportation Company limited to Marine freighting system
112	17077-78	Jan.20		Bayly Bliss	COPE/ITC GPC-D	Transporting materials to Parsons Lake via important whale area, Liverpool Bay, Husky Lakes
114	17282	Jan.22		Mainland	GPC-D-I	Taglu gas plant near navigable waterway

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114	17289-99	Jan.22	In	Mainland	GPC-D-I	Taglu gas plant, barging in equipment, materials via Mackenzie River and Beaufort Sea
	17302-05			Mainland		Taglu gas field, shipping materials, equipment by barge
	17307-12			Mainland		Taglu field, barging in material equipment, impact on transport system's rates, capacities
	17360			Mainland		Taglu gas field, barging in fuel via Mackenzie and Beaufort sea
	17366-68			Mainland		Taglu gas field, precautions against storms in Beaufort Sea while barging in materials, equipment, river barging an alternative, no tankers will be used
	17413-15			Mainland		Traffic on Mackenzie; committee to coordinate use of river transportation system; uses of Hovercraft
	17430			Faulkner	GPC-D-S	Niglintgak gas field, resupply of Farewell staging area by barge each summer from Hay River
	17440-41			Faulkner		Niglintgak gas field, barges on Mackenzie and via Beaufort Sea will be used
115	17446-49	Jan.23		Faulkner		Niglintgak gas field, barging materials via Mackenzie, Beaufort Sea, tonnages involved
	17449-53			Faulkner		Niglintgak gas field, using N.C.T.L. for barging materials down Mackenzie; sharing barges with other users
	17513-15			Faulkner		Niglintgak gas field, tonnages to be barged, modules, fuel
	17538			Stamberg	GPC-D-G	Parsons Lake gas field, equipment barged via Eskimo Lakes to Hans Bay
	17554			Stamberg	GPC-D-G	Parsons Lake gas field, barging route for drilling equipment, gas plant, gathering lines etc; discussions with NTCL
	17555-57			Scott	GPC-D-G	Hay River or Fort Simpson as possible staging areas for shipping to Parsons Lake; possible barge use conflict with local users
116	17606-12	Jan.24		Stamberg Scott		Transportation of gas plant construction modules to Parsons Lake via Husky Lakes, possibility of dredging or scaling to accommodate traffic
	17621-23			Stamberg Bayly Berger	COPE/ITC	Frequency of barge traffic through summer months, impact of traffic on whales in Liverpool Bay; lack of alternate water routes
	17626-27			Stamberg		Equipment required, safety standards for local barging of construction materials; prevention of spills from barges or loading sites
	17652			Rempel	GPC-D-I	Dredging channels to improve access
	17665			Webb	GPC-D	Response of whales to outboard motor, barge traffic, dredging at Immerk
	17668-70			Webb		Response of whales to boat traffic, dredging, aircraft
	17704-08			Appleton	GPC-D-G	Effects of barging on Husky Lakes fish; barges on Eskimo Lakes; possibility of dredging Liverpool Bay, Eskimo Lakes, scaling fingers of Eskimo or Husky Lakes
	17718			Appleton		Impact of barging through Liverpool Bay - Eskimo Fingers - Husky Lakes area
	17729			Webb		Barge and boat traffic through Shallow Bay, effect on whales
117	17870	Jan.26		Bell Wopnford	NWT-IB/MA GPC-D-S	Displacement of conventional supplies by construction materials
118	17923-25	Jan.27		Bayly Tod Wopnford	COPE/ITC GPC-D-I	Barges, harbour facilities at Tuktoyaktuk, alternate transportation roles; Babbage Bay harbour; Tuk harbour used as lightering base, ocean barges, dredging
	17995-803			Bell Czaja Bayly Motyka Horsfield	GPC-D-S GPC-D-G GPC-D-I	Use of barge system, expansion; N.T.C.L. discussions with government, barge requirements, standards
	18059			Bayly Horsfield		Drilling barge and drill ship
119	18253	Jan.28		Pimlott	COPE	Northern Transportation Company, oil spill

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122	18676-79	Feb.11	IN	Sergeant	COPE/ITC	White whale response to boat traffic, water borne sound
	18684-85			Sergeant Goudge	MVPI	Protection of whales through use of shipping corridors on delta
	18720-21			Barry	COPE/ITC	Imperial proposals re dredging "shipping lanes" to supply Taglu
124	18895	Feb.13		Shearer	COPE/ITC	Bathymetric surveys required if water transport of sea oil is attempted
	19012-13			Milne	COPE/ITC	Relationship between quantity of oil spillage from marine blow out, super tanker sinking
126	19230-33	Feb.16		Pettigrew	COPE/ITC	Efficiency of barge transport of toxic materials
130	19774-75	Mar.16	YK	Williams	CAGPL	Trans-shipment by barge through Axe Point, reduction of total tonnage of material, barge sets requirement
131		Mar.17		Williams	CAGPL	Possible traffic blockages during construction; Moose Channel
132	20109-10	Mar.18		Williams		Dredging around docking areas to accommodate barges on Delta
133	20157	Mar.23		Webb	CAGPL	Restrictions, Shallow Bay to minimize impact on whales
134	20231-34	Mar.24		Webb		Restricting boat traffic, Shallow Bay, to minimize impact on whales
	20245-65			Webb		Possible impact of boat traffic on whales
	20324-28			Webb		Possible impact on whales of barge traffic from Shingle Point
	20363-68			Webb McCart	CAGPL	Impact of barge, boat traffic, Mackenzie Bay, recommendations
	20377-87			Webb		Impact of barge boat traffic on whales in Mackenzie, Shallow Bays
135	20525-27	Mar.25		Hemstock	CAGPL	Barge traffic, west Mackenzie Bay, gravel hauling; supplying Compressor station CD-08
	20534-37			Hemstock		Impact of barge traffic, Delta area
	20567			Webb		Will file letter re boat, barge traffic West Mackenzie, Shallow Bays
140	21283-84	Apr.8		Nicol	COPE/ITC	Tuktoyaktuk harbour - use by oil freighters
148	22680	Apr.29		Asch	NWT IB/MA	Travelling in summer by shallow drafted canoes
	22684-86			Asch		Supply lines maintained by the use of York boats, Slavey region
C-42	4117	Mar.5	SACHS	Rowe	CAGPL	Freight for communities not affected by pipeline, decrease in freight cost
C-46	4461-62	Mar.11	PAUL	N. Green Berger	Citizen	Priority on barges
	4493-95			G. Ruben	Citizen	Drilling ships around Point Barrow, anchor lines, blowout preventers
	4502-12			Hnatiuk Berger	GPC-D-G	Testing of drill ships in Arctic Ocean, Gulf of Alaska, Beaufort Sea; ships around Point Barrow, risk of blowout, ice conditions
C-47	4573	Mar.13	ARR	J. Andre	Citizen	Shipping oil to refinery
C-52	5370	May 13	CAL	J. Rymes	Citizen	Alexbow, ice breaking
C-53	5547-48	May 14		Irye	Citizen	Tug and barge operation on the Mackenzie River
C-62	6914-15	May 31	MTL	Delisle	Citizen	St. Lawrence Seaway, no agreement made with Indian people, erosion of lands
C-65	7540-41	June 4	OTI	H.T. Schwarz	Citizen	Beaufort Sea, hazards to ship, drilling for oil
C-67	7771-73	June 8	HAL	G. Yetman	Citizen	Liquified natural gas carriers
162	25072-74	July 13	YK	Trusty	CAGPL	Possible impact on northern services, facilities; addition of barges; expansion in port facilities; freight rates
163	25224-30	July 14		Trusty		River barges, increased demand, possible higher rates; provisions to increase barge capacity
164	25414-15	July 15		Trusty Berger		Additional barges; question re financial responsibility
	25470-77			Trusty		Oversizing of Arctic Gas facilities; community re-supply; barge rates; need for additional shore facilities

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C-68	7863-68	July 16	FP	G. Erian	Citizen	N.T.C.L., operations in Hay River, Fort Simpson; facilities at Axe Point
	7909-12			Horte	CAGPL	Storing of barges in winter, possible impact on fishing
174	27125-26	Aug 20	YK	Dalby	NWT/AM	Effect of bulk oil cargoes on barging; reduction in bulk oil transportation, effects on transportation rates
175	27336-37	Aug 23		MacLeod	NWT/CC	Competing for barge space, portion reserved for local requirements
190	29598-99	Sept 23		Wasyk	NWT/AM	Development of Fort Simpson as a transportation centre; potential locations of marine transportation facilities
	29610			Roska	NWT/AM	Importance of water transportation in early settlements; limitations
191	29771-800	Sept 24		Hagglund	MVPI	Northern Transportation Company Limited route network, sections: Mackenzie River, Great Bear, Athabasca, Arctic coast, Liard River; NTCL Hay River facilities, Norman Wells, Inuvik; traffic patterns; NTCL; KAPS Transport; Lindberg Transport Ltd.; operational problems on Mackenzie River system: ice, water levels, rapids; cargo distribution; Arctic Gas and Foothills' logistics plans, delta gas plants logistics; dredging program, Environmental Assessment Review Panel; staging areas, Axe Point
	29809-11			Bayly Evans	COPE/ITC MVPI	Impact of dredging on fish overwintering and spawning areas
	29819-24			Evans Hagglund	MVPI MVPI	Training river pilots to travel through rapids; dredging eliminates need for specialized training
	29832-35			Evans		Community resupply; public carrier policy, no priority
	29855-60			LeBlanc	MVPI	Common and specialized carriage, tariff rates; preference to community resupply, no legislation; barge system owned by CAGPL or Foothills, impact on existing systems
	29865-71			Hagglund Evans		Transportation cost savings by dredging
194	30352	Oct. 6		Hemstock	CAGPL	Historical review - commercial barge boat transportation in Mackenzie corridor
199	31508-12	Oct. 15		Beakhust	COPE	Water Transport Committee regulates operation on Mackenzie River; National Transportation Act

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XV	1716-17	Mar.11	YK	Dau	CAGPL	Importance re: route relocation
XVII	1911	Mar.13		Williams	CAGPL	Relocation - hunting and trapping grounds
	1952			Williams		Relocation - hunting and trapping areas
	1977-90			Mollard Bayly	CAGPL COPE/ITC	Gravel deposits; gravel removal; cross delta route change; conflict with other users in area
XVIII	2093-95	Mar.14		Dau Scott	MVPI	Environmental factors re: route selection
XXIII	2721	Mar.21		Clark	CAGPL	Route change
45	5884-89	May 24		Bayly	COPE/ITC	Major change westward in pipeline route
	5984-85			Scott		Route change, factors taken into consideration
C-11	1035	July 8	F.McP.	Workman Elwood	CAGPL Foothills	Routing of CAGPL and Foothills pipeline proposals
59	8338-39	Aug. 21	YK	Mirosh Gibbs	Foothills Foothills	Foothills deviation in the Travaillant Lake area
	8394-95			Mirosh Marshall	CAGPL	Foothills route change re: environmental factors
	8468-70			Mirosh Anthony	CARC	Foothills studies; in house and in office research; Foothills - CAGPL route departures; route selection
	8473-75			Fawcett Bell	N.W.T. IB/MA	Trapping areas; mile-post area 140 - 170
60	8532			Bouckhout	Foothills	Recommendation for route change due to denning sites
73	10963	Oct.16		Morgenstern	CAGPL	Test hole drillings; soil stability
78	11497-98	Oct.23		Roed	CARC	Route of Polar Gas Y pipeline, proximity to Travaillant Lake

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78	11639	Oct. 23	YK	Minning	CAGPL	River crossings between Travaillant Lake area and northward to Richards Island
93	14066	Dec. 1		McCart	CAGPL	Five culverts located south of Travaillant Lake re: facilitation of fish passage
98	14920	Dec.8		Scott	MVPI	Bluenose herd overwinter in area
	14965-66			Marshall	CAGPL	Looping mainline south from area
99	15053	Dec. 9		Scott		Impact on wilderness values
	15108			Bouckhout	Foothills	Adjustments to route
100	15278	Dec. 10		Whitney	Foothills	Environmental studies in area
	15365			Scott		Range of woodland caribou
130	19743	Mar.16		Williams	CAGPL	Route changes in area
132	20132	Mar.18		Clark	CAGPL	Test drilling of soil
133	20144	Mar.23		Gunn	CAGPL	Waterfowl population, July and August
134	20342-43	Mar.24		Jakimchuk	CAGPL	Possible impact on mammals of closeness of alignment to area

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53A	7326-27	Aug. 13	WH	Thompson	CARC	To supply material which shaped Wildlife Range resolution at Canada-America Environmental Council
71	10598-600	Oct. 14	YK	Goudge	MVPI	Submission as exhibits reports, and publications requested of Dr. Williams
72	10689	Oct. 15		Goudge		Agreement referred to by Mr. Owen concerning the Pointed Mt. Pipeline; Agreement between crown and Westcoast Transmission; exhibits #277
	10721			Goudge Longlitz	MVPI	D. Longlitz to provide CAGPL with data concerning tests on frost penetration
	10726			Longlitz		To look through files and produce dates of inspections and testing re: vehicle effect, frost penetration
75	11038-A	Oct. 20		Anthony	CARC	To locate and produce for Marshall the exhibit number and reference for the Bureau of Land Management's Environmental Impact Statement
	11141			Scott	MVPI	Fulfilling undertaking to Anthony by producing a report by Department of Public Works on "Herschel Island Feasibility of Marine Terminal"
76	11146-51			Weeden Marshall	CARC CAGPL	Documents compiled re: Alyeska soil and river hydrology data
	11176			Weedon		To supply documentation to support statement re: lesser damage to fishery resources would be caused by a Trans-Alaska pipeline
78	11491	Oct. 23		Anthony	CARC	To make available copies of the journals and articles used by Roed
	11524			Anthony		To produce research material used by Roed re: logistics, community gas use
	11532			Roed	CARC	Council to produce copy of Roed's statement
94	14335	Dec. 2		Scott	MVPI	Listing of reports re: Schultz report - Dempster Highway, availability
95	14369	Dec. 3		Bayly	COPE/ITC	To locate, Magistrate Spreckor's testimony re: gun laws in Alaska
	14498			Banfield Berger	CAGPL	Correspondence between the Department of Environment in London(England) and the Inquiry re: Scotland, land use plans
96	14705-06	Dec. 4		Scott Veale	CYI	Peter Lord's statement in Old Crow re: caribou harrassment by Renewable Resources
97	14833	Dec. 5		Scott		Will supply report on birds by Brooks
101	15499	Dec. 11		Anthony		Will provide further comments by Zoltai on fenland areas along route
	15525			Anthony		Terrain damage susceptibility maps, E-SF 102, will be filed as exhibit
103	15806	Dec. 15		Stein	CARC	Reference to highway construction field work
104	15963	Dec. 16		Bayly Ryder	MVPI	Access to pipeline testing materials list
105	16033	Dec. 17		Walker	CARC	To distribute two reports re: impact of highway on aquatic resources in Yukon
106	16187	Dec. 18		Anthony		Photocopying re: Arctic Gas evidence, comparison of Coastal and Interior Routes
109	16621	Jan. 14		McT-Cowan	EPB	To investigate as to a precedent having been set of a developer involved in game management
112	17090	Jan. 20	IN	Scott	MVPI	Will Foothills require timber for pilings
114	17307	Jan. 22		Mainland	GPC-D-I	Taglu gas field, fuel requirements for construction, will provide
	17337			Ballem	GPC-D-I	Will investigate possibility of releasing APOA study of Delta borrow material resources
	17371			Ballem		Will provide list of 100 tons miscellaneous drilling materials
	17389			Mainland		Will provide maximum flood levels in Taglu gas field
	17398			Ballem		Will supply information on scour in Delta channels if any available
	17400			Ballem		Will supply river bank erosion studies, Mackenzie channels

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115	17446	Jan.23	IN	Ballem	GPC-D-I	Will supply tonnage of materials for Niglintgak gas plant
	17465			Ballem		Will supply contingency plans for escape of toxic materials, Niglintgak gas field
	17498			Ballem		Will find out who is Shell expert on gas line fires, explosions
	17517			Ballem		Has supplied list of "100 tons of miscellaneous drilling materials"
116	17678			Ballem		Will supply Imperial's general written course on environmental protection; details of environmental officer training
117	17876	Jan.26		Ballem		Study to determine effect of industrialization on health services
123	18753-55	Feb.12	YK	Elkin	MVPI	Elkin to supply counsel with report on Territorial regional planning
	18827			Bayly	COPE/ITC	Bayly to supply counsel with data from slide presentation by Yates, Elkin
	18841-44			Goudge	MVPI	Counsel to give Bayly list of reports re employment , entrepreneurial opportunities in north
124	19017-18	Feb.13	IN	Goudge		Commission counsel to provide Dr. Milne with statistics cited in Dr. Pimlott's cross-examination
125	19083	Feb.14		Bayly	COPE/ITC	Bayly to supply counsel with curriculum vitae of Pettigrew, Snow, Logan
126	19191-93	Feb.16		Snow	COPE/ITC	Imperial to supply data on aspects of fishing, hydrology, associated with Taglu development ; Gulf to supply data re deficiency statements from DIAND
	19260			Pettigrew	COPE/ITC	NWT Government to define permanent land disposal sites of contaminated material
128	19566	Feb.18		Milne	COPE	Will ask for Brackell's report on economic values of wildlife resources
129	19694	Feb.19		Bayly	COPE/ITC	Request for copy of Speller and Snow's report
136	20763	Mar.26	YK	Peet	MVPI	Will supply internal NWT government document on case histories of commercial fisheries
138	20918	Apr.6		Goudge	MVPI	Has provided copy of "A History of Attempts to Commercially Fish the Mackenzie River Delta, Northwest Territories" by Barlishen and Webber
	21036			Goudge		Will check cat on Yukon coast, related to pipeline facilities?
139	21115	Apr.7		Bayly	COPE/ITC	Commission counsel to obtain report on Mackenzie Valley Authority
	21136-37			Bayly		Simmons to supply information on oil exploration on Banks Island
	21165-66			Berger		Commission counsel to ask Mr. Moolin - Senior Project Manager on Alyeska pipeline - to appear before hearings to discuss feasibility of pipeline construction during December, January
	21173-74			Goudge	MVPI	Response to request by Bayly re appearance of cat off Yukon coast - cat is being used by Dr. Lewis for studies of coastal erosion, sedimentation
	21188			Goudge		Commission counsel to provide Inquiry MOT MacPlan study when completed
140	21288	Apr.8		Nicol	COPE/ITC	Nicol to notify commission counsel when report on oil removal equipment by DOE will be available
	21392			Bayly		Bayly to supply participants with copy of letter by J. Vick to Pat Dixon of MDDGAG
	21410			Bayly		Letter by J. Vick given to participants, Bayly to supply participants with copy of letter by Mm Dixon
	21473			Bayly		Bayly to investigate source of statement re removal of gas with a high content of sulphur compounds

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141	21476	Apr. 9	YK	Bayly	COPE/ITC	Fulfillment of undertakings - vol. 140, p. 21474 re Foothills, intent to remove gas or oil having sulphur compound content
	21516			Goudge		Commission counsel to call further evidence - Mr. Moolin - feasibility of pipeline construction during December, January, Beaufort Delta group - oil pipeline construction
142	21642	Apr. 13		Virtue	Nortran	To provide printed materials used by Nortran trainees in orientation program
	21650			Giroux	Nortran	To provide recommendations on orientation program
143	21730-32			Giroux Virtue		To provide information on orientation program, supervisory personnel seminars, Nortran
	21734-38			Giroux Virtue		To provide information on construction recruiting; methods to provide information on construction, employment and training for potential workers in the Mackenzie Valley; costs of the Nortran program
145	22210-11	Apr. 26		Berger		Witness Clarke to provide (1) document by bishops and priests of the Brazilian Amazon X Juca Pirama; (2) Bishops' document on the marginalization of people
148	22545-46	Apr. 29		Nahanni	NWT IB/MA	To obtain number of women trappers and men trappers under 30
	22548-49			Nahanni		To obtain figure determining proportion of trappers to total Dene population, NWT
	22577-80			Bayly Veale	COPE/ITC CYI	To obtain corresponding figures of those people in NWT living off the land in the Western Arctic and Old Crow region
	22608-10			Nahanni		To report on which method recommendations were rejected concerning the Land Use and Occupancy Research
149	22746	May 3		Bell	NWT IB/MA	Provision of information on dismissal of Prof. Gillespie, role of Dr. Helm in NWT IB land use study
152	23284	May 6		Goudge	MVPI	Goudge to explore Steeve's request - return of Jacquot for cross-examination; meeting of counsel - degree to which any native organization ought to be required to describe nature, extent of land claim
	23296-97			Goudge	MVPI	Summary of discussion on land claim
	23333			Notti	CYI	Notti to send Inquiry copy of "The Alaska Native Land Claims"
C-40	3871	Feb. 23	AF	Berger		Will photostat Shell's land use application to drill on western side of Richardson Mountains
C-42	4091	Mar. 5	SACHS	Berger		Rousselot will provide copies of slides to Inquiry
C-44	4261-62	Mar. 9	TUK	Berger		Request that Bayly pursue issue of waterfowl breeding on Banks Island, Cape Bathurst not included on Bird Sanctuary map
	4338			Hnatiuk	GPC-D-G	Will ask DOME to contact V. Steen re harbours for ships
C-67	7694	June 8	HAL	Berger		Asked Roland to send copies of United Steel Workers brief and Steel Company of Canada brief to Mr. Hindson
	7740-41			Berger		Will circulate Herfst's brief to counsel and Judge Morrow
157	24074-75	July 5	YK	Bell	NWT IB/MA	Will report on survey by Metis Association re numbers of Metis and non-status Indians in NWT
	24112-13			Bell		Request that Asch read discussion between Hobart and Berger, comment on Hobart's presentation during cross-examination
159	24534	July 7		Scott	MVPI	To provide plans for the purchase of goods or supplies by applicant in NWT

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171	26515-16	Aug.17	YK	Bayly	COPE/ITC	Provision of evidence by Dr. Usher on hunting rights, to support Nunavut proposal
	26643			Dixon	MVPI	To reply by letter, comments on evidence of Boorkman, boom-crest cycles
172	26717	Aug.18				To provide record of percentage of local people resorting to welfare, Alaska
173	26887-90	Aug.19		Goudge	MVPI	Provision of documents by Imperial Oil - example of a Wildlife Service permit, three studies on winter road use, and six studies on oil spills on ice and snow; two letters from Imperial Oil, Gulf Oil re employment, employment percentages; provision of information by Mr. Sider from Imperial and Gulf re employment statistics; letter from Dr. Stephen to Dr. Fyles re a Chevron permit; provision of information by Mr. Virtue - Dacum booklet; summary list of current applicants by home settlement, comments on alcohol abuse, family relationships, money, discrimination; suggestions on components of an orientation program and outline of their present program; suggestions on a manpower delivery system; estimated training costs, provision of agreements in effect at Pine Point, Syncrude; provision by Steeves of Van Ginkel study, "Building in the North"
175	27354-55	Aug.23		Scott	MVPI	Bidding preference to northern business, unionization proposals will be sent to Pipeline Council for comment
176	27447	Aug.24		Berger		Robinson, Button, to write letters commenting on evidence of Gillie, Yazzie, Kakfwi, Overvold, on education
	27449-50			Scott Robinson	MVPI COPE/ITC	Robinson, to provide information item for members of Territorial Council, education, also the seventeen exceptions
179	27747-48	Aug 27		Runge	MVPI	To make available a copy of the Manforce Research Associates report and comments on an "Employment Impact Assessment of Hydrocarbon Industry Activity", R.F. Sterling
180	28035-36	Sept 7		Goudge	MVPI	Request that panel read "Trade Unions in Canada and the Northern Resident" and provide any comments in letter
182	28321	Sept 9		Forth	MHA/NWT	Will document revised Mental Health Ordinance of NWT and present as exhibit to Inquiry
183	28400-02	Sept 10		Sigler	NWT/AM	Provision of studies on town planning requested by Scott
184	28501	Sept 14		Bayly	COPE/ITC	Abbott to respond by letter on future improvements of health services
	28508			Bayly		Abbott to respond by letter on health delivery costs
185	28586	Sept 15		Schaefer	COPE	Will send exact rate of alcohol-related violence and accidents across Canada
	28683			Schaefer		Will submit prints of slides alluded to in his presentation
	28810-15			Berger		Request that Hildes, Mayhall, Schaefer, Cass and Noble collaborate on realistic assessment of development impact, to be answered by letter
186	28828	Sept 16		Basham	MVPI	To define number of unions not contacted re pipeline construction
	28868			Basham		Recommendations - manpower delivery system
	28873			Scott	MVPI	Letter from J.B. MacLeod - northern residency duration for the purposes of business preference
188	29142	Sept 21		Searle	MVPI	Will supply copy of committee report dealing with transfer of responsibilities to Territorial government

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189	29254-55	Sept 22	YK	Scott Lincoln	MVPI COPE	Will provide statistics from Judy Hill's study on alcohol-related deaths in Alaska; will provide written program of Napaskiak Alcoholism Council
	29280			Scott Nickerson	NWT/AM	Will provide Department of Planning's population projections after pipeline construction
	29357-58			Scott		Nickerson has supplied population forecasts of Department of Planning and Program Evaluation
189A	29534			Sigler	NWT/AM	Buchholdt will provide copy of Barrow's Municipal Code
190	29585-88	Sept 23		Scott Ganske	NWT/AM	Request for list of facilities being built to minimize development impact in communities; cost estimate, time needed to make them operative
	29616			Feilden	NWT/AM	Will provide lists of projects and costs for Inuvik requested by Scott
192	29873	Oct 4		Berger		Has received letters from Hildes, Cass and Schaefer
196	30972	Oct. 12		Scott	MVPI	Copy of government's report on authority options will be sent to Evans
197	30986	Oct. 13		Scott		Request that Bergasse provide list of current projects by Department of Economic Development and Tourism in the Territories
	30994-95			Scott		Request that Bergasse provide list of Hire North's trainees and their location
	31005			Bergasse	MVPI	Will provide copy of consultants' report on financial services in NWT
	31024-25			Scott		Request that Bergasse provide figures on employment status of Hire North trainees
198	31271-72	Oct. 14		Witty	MVPI	Will provide figures of success rate of AVTC graduates
	31282			Carnew	MVPI	Will provide figures of students attending technical vocational institutes or universities in the South
	31312			Gates	MVPI	Will provide statistics of ratios of native and non-native people in apprenticeship training program, dropout rate
	31336			Gates		Will provide statistics or breakdown of institutional training related to construction and operation of pipeline
198A	31416			Christie	MVPI	Will provide copy of Alyeska's Six Villages agreement on local hire
200	31612	Nov. 15		Scott		Letter from Dr. Mayhill - concerns in the area of dental health
201	31716			Scott	MVPI	Comment by Mr. Skinnerland re: report of the working group on government submitted as exhibit
202	32010	Nov. 17		Anthony	CARC	To file supplementary detailed comment on recommendations of other participants

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XXIV	4413-18	Apr. 22	YK	Dau	CAGPL	Labour negotiations; strikes
XXXVII	4766-76	May 13		Bayly	COPE/ITC	Federal/Territorial Labour Codes; negotiations
XXXIX	5171-74	May 15		Harlan	CAGPL	No strike agreement for life of project
41	5380-81	May 20		Hurd	CAGPL	Unions
42	5386-87	May 21		Hurd		Unions, movement of workers
	5541-42			Horte	CAGPL	Labour relations
C-4	248-250	May 28	Hay River	Tetrault	Citizen	Pilots for Mackenzie River boats must be members of union
C-5	390-392	May 29		Tetrault		Initiation fees, permit vs. book members
	419-420			Berger		Access to unions, Guidelines for Northern Pipelines

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C-15	1441	July 12	O.C.	B. Allen	Citizen	Return ticket for people fired
56	7852-58	Aug. 18	YK	Horte		Understandings to be reached; influence on work policies; wages; overtime; construction camp regulations
58	8166	Aug. 20		Blair	Foothills	Alyeska and union control over pipeline policies re: alcohol use, firearms, women; Alaskan citizen rights; Foothills intention given the Alyeska experience
	8250-51			Blair		Foothills policy as to wage levels; overtime
53	7114-18	Aug.13	WH	Banfield	CAGPL	Reaction to firearms restrictions in Alaska
	7203-08			Sprecker	CYI	Opposition of Teamsters Union to firearms restrictions
	7222-24			Sprecker		Wages in Alaska
	7224-39			Sprecker		Requisite number of natives employed
	7243-44			Sprecker		Enforcement of controls on guns, liquor, drugs
C-22	2260-63	Aug.11		R. McRobb	Citizen	Government control of labour agreements
C-23	2297-98	Aug.14		A. Cabret	Citizen	Hiring of women
	2340-41			R. McCandless	Citizen	Payment of local wage rates
	2372			R. Genelli	Citizen	Pipeline wages could cause prices to soar
	2374			R. Genelli		Example of Cliche report & effects
61	8595-8614	Sept.15	YK	H.L. Stevens S. Cook R. Garlick	USWA USWA USWA	Union involvement in Canadian industries and mining; concern for Canadian steel plants; short term employment to be generated
62	8965	Sept.16		Mirosh	Foothills	Number of payphones per construction camp to be determined by union agreements
65	9620	Sept.19		Kosten	Foothills	Contractors provide training programs through unions; incentives to workers
66	9668-72	Sept.22		Kosten		Difficulty of keeping workers on at Christmas; wage incentives
	9800-14			Mirosh Kosten		Incentives to skilled labour; safety factor in employing experienced workers, Alyeska & Trans Canada labour, training programs
	9835-37			Mirosh Kosten		Payment for travel to work sites; Labour Ordinance
67	9881-99	Sept.23		Kosten Bauer	Foothills	Contractual implications of expanding or compressing schedule; wage regulations; contractors; Trans Alpine pipeline difficulties when overtime denied
	10025			Kosten Bauer		Renegotiation of agreements between operators association and the trade unions
68	10081-82	Sept.24		Hushion	Foothills	Difficulty of unions accepting northerners trained by AVTC
	10163-64			Williams	CAGPL	Work through Christmas period; shelters at construction sites; non-productive days
	10167			Williams		Shutdowns of construction due to strikes & labour problems
76	11237-40	Oct.21		Parker	CARC	Shop rules relaxed; Native hiring maximized; time of rest and relaxation; out-of-state skilled workers re: Alyeska project
86	13033-34	Nov.13		Gibbs Williams	Foothills CAGPL	Working conditions allowed by unions
91	13891-92	Nov.20		Dau	CAGPL	Wage Costs
93	14186	Dec.1		Gunn Hemstock	CAGPL CAGPL	Camp and compressor station employee regulations
95	14519	Dec.3		Bayly Berger	COPE/ITC	Movement among spreads; job opportunities and knowledge; restriction on employees, access to the camp and spreads
98	14963-67	Dec.8		Berger		Possible work stoppages, North Slope
99	15044-46	Dec. 9		Hemstock		Ensuring contractors follow environmental rules
109	16686-87	Jan. 14		Berger Templeton	EPB	Labour unions abiding by the terms and conditions laid down by the Commission; aircraft flight and frequency restrictions
C-27	2721-25	Sept. 10	FS	Fizer Workman Ellwood	Citizen CAGPL Foothills	Pipeline positions re: assurances that Northerners will be hired; Union Hiring Hall; percentage quota re: hiring

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C-33	3145-46	Oct. 9	FS	Gauthier Berger	Citizen	Unionization of sub-contractors
	3147			Gauthier		Unsuitable conditions between union and small contractors; strikes
	3185-86			Lavolette Berger	Citizen	Union control re who works on pipeline; difficulty of northerners to get jobs - Hiring Halls in south
C-34	3317-18	Oct. 16	YK	Loftus	Citizen	Extreme wages for construction workers re inflation; urge for wage controls
	3339-40			McRae	Citizen	Steel Workers Union in Northwest Territories
	3342-43			McRae		Indifference of Steel Workers re patriotic allegiance, deaths at plants in Montreal and Valleyfield, Quebec
	3344			McRae		Steel Workers Union Research Department estimate of profits out of north
	3353			Castille	Citizen	Union interference in native employment on railroad to Pine Point
	3354-56			Berger		Pipeline construction wages, overtime
C-36	3547-48	Jan. 29	In	Burrell Workman	Foothills CAGPL	Union trades involved in construction
C-39	3710	Feb. 18		Robertson	Citizen	Hiring Halls in Edmonton or Calgary, none in Territories
	3724			Hill	Citizen	Union regulations favouring southern over northern business
	3727-28			Hill		NWT Workers Compensation, problems, wage and price controls, inflationary effects, matched wages and prices between business and pipeline operations
	3731			Hill		Control of union operations; utilization of non-union northern business
	3741			Klassen	Citizen	Wages spent on liquor and prostitutes
	3744			Raynier	Citizen	High wages in oil camps, impact on companies
117	17824	Jan. 26		Sider	GPC-D-G	Equal employment treatment toward northerners
	17870			Bell Sider Berger	NWT-IB/MA	International Labour Organization, article five, employment of natives
	17909-11			Berger Sider		Nortran employees and unions, Gas and oil Union, unionization of delta rigs
118	17919-21	Jan. 27		Bayly Sider	COPE/ITC	Transportation of personnel, Canadian Labour Congress, problems of enforcing rules in Alyeska Company
	17964-65			Sider		Disciplining of native and white employees
	17971-78			Sider Tod Wopnford	GPC-D-I GPC-D-S	Involvement of unions in exploration activity, gas plant operations; affiliation with Canadian Labour Congress; Alberta Labour Relations Board; Waterton gas plant unionized; unions and gas plant construction; hiring hall practices
	17981			Sider		Companies' hiring policies
	18069-71			Horsfield Motyka Czaja	GPC-D-I GPC-D-G GPC-D-S	Policy against hiring surplus of Alaskan personnel
122	18531	Feb. 11		Stirling	COPE/ITC	International agreement on conservation of polar bears
	18622-31			Stirling		International agreement - polar bear protection
131	19926-28	Mar. 17	YK	Berger Williams	CAGPL	Working conditions, North Slope, hampering construction; Alyeska experiences
142	21596-98	Apr. 13		Virtue	Nortran	Union membership of Nortran trainees
	21606-09			Virtue		Co-operation of unions with the Nortran program
	21650-51			Virtue		Work shift schedules
143	21712-13	Apr. 14		Giroux	Nortran	Nortran program
147	22432	Apr. 28		Richardson	NWT IB/MA	Struggle between two union groups, re hiring of native employment, James Bay

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153	23477-49	May 7	YK	Sharp	CYI	Anvil Mine Agreement, terms for construction and operation of mine, hiring of locals, problems
	23485-86			Sharp		Anvil Mine Agreement
C-40	3843-44	Feb. 23	AK	F. Elanik Berger	Citizen	Potential employment problems between native and union people
C-47	4626-27	Mar. 13	ARR	Berger		Construction workers not allowed in communities, enforcement
C-54	5727	May 17	EDM	Robertson	Citizen	Pipeline companies have not considered possible major labour unrest
C-55	5815	May 18		M. Venne	Citizen	Native people, problems with dues; Alberta government union dues trust fund; Labourers' Union
	5901			H. Cardinal	Citizen	Lack of support for Indian labour union
158	24233-37	July 6	YK	Hobart	CAGPL	Need for work schedules that allow for maintenance of traditional activities; example of work rotations at mine, Rabbit Lake, Saskatchewan
159	24331-41	July 7		Boorkman	CAGPL	Alyeska, use of union hiring halls, Fairbanks; problems with enforcement of Alaska Local Hire Act; Alaska State Department of Labor, certification of residency cards; Trans-Alaska Pipeline System Agreement, relationship between Alyeska and unions; membership, seniority in unions, influence on hiring practices
	24353			Trusty	CAGPL	Hiring to be done in southern centres, limit on in-migration
	24365-67			Boorkman		Wages, hours of work, Alyeska
	24380-99			Boorkman D. Weinstein	CAGPL	Alyeska, hours of work, wages; overtime pay, contribution to inflation
	24405-09			Boorkman Trusty		Salaries leading to in-migration; shift scheduling, differences between those of southerner, northern resident; Alaska, no strike clause
	24446-47			J. Weinstein	CAGPL	Alaska, all hiring halls for Alyeska located in Fairbanks
	24486-87			Boorkman		Alaska, local hiring practices; recommendations for NWT; location of hiring halls
159-A	24566-67			Trusty		Location of hiring halls
	24613			Trusty		Location of hiring centres; mechanism for local preference
161	24830	July 12		Williams Trusty	CAGPL	Question re hiring policy of contractors, maintenance work, ROW
	24866-68			Hollands	CAGPL	Practical tests for those with equipment experience; northern employment policies
	24894-912			Hollands		Discussions with CAGPL; northern hiring policies
	24917-19			MacQuarrie	MHA/NWT	Co-operative Pipeline Agreement for Canada
162	24930-42	July 13		Hollands	CAGPL	Flexible rotation schedules, northern residents
	24946-52			Williams	CAGPL	Rotational leave breaks, Christmas
	24996-5000			Trusty	CAGPL	Hiring halls to be located outside of region
	25026-45			Hollands		Manpower Delivery System; agreements to establish system; definition of northern resident
	25087-88			Trusty		Hiring in the south; northern hiring policies
163	25126	July 14		Hobart	CAGPL	Need for co-operation, policy of not allowing workers to leave camps
	25138			Hobart		Flexible rotation schedules, length of time native people will work
164	25338-45	July 15		Hobart		Hiring in Alaska; legal enforcement of proposed CAGPL policy requiring employees to remain in camps
	25386			Hobart		Rotation schedules for individuals

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164	25404-14	July 15	YK	Trusty	CAGPL	Hiring centres, termination points in the south; checking of baggage upon entry in camps
	25422-23			Hobart	CAGPL	Long hours of work, possible views of those in communities
	25463-68			Hobart		Segregated crews, potential for prejudice
165	25516	July 19		Ellwood	Foothills	Option of paycheck sent to home or bank
	25526			Jensen	Foothills	Pipeline craft union and construction trade hiring halls located in Edmonton and Vancouver
	25562			Burrell	Foothills	Permanent employee benefits program - savings plan, pension plan, life insurance, disability protection; money management advice to staff
166	25691	July 20		Burrell		Questions relating to labor relations will be deferred
C-68	7908-09	July 16	FP	Horte	CAGPL	Hiring of southerners in the south; impact of high wages
170	26415-19	Aug. 16	YK	Ellwood	Foothills	Workers under union jurisdiction, Foothills
	26421			Ellwood		Project Agreement, provisions for northern natives, establishing hiring procedures
	26468-78			Deyell	Foothills	Pipeline contractors and representatives of the unions will be needed to reach special agreement re construction unions
171	26517-18	Aug. 17		Burrell		Employment rotation, labour pool system for construction phase, preferential hiring for northerners
	26522-31			Burrell Ellwood		Hiring of northerners, definition of northerner, suggestion of quota system for hiring, measurement of success of preferential hiring
	26554			Burrell		Collective agreement with Pipeline Advisory Committee on manpower delivery system
	26566-71			Burrell		Location of hiring halls, transportation of workers
	26629-31			Dixon	MVPI	Alaska, enforcement of hiring practices, problems involved
172	26703-05	Aug. 18		Dixon		Alaska, number of people involved in labour unions increased significantly with pipeline development
	26750-55			Dixon	MVPI	Fairbanks, local hiring policy
175	27239-42	Aug. 23		MacLeod	NWT/CC	High degree of specialization and categorization of labour, serious problem; hired local manpowers; standards of camp accommodation
	27266-71			Hinchey		Price and income controls; raising of wage control limits to remain competitive; recommendations: labour standards ordinance revised; Mechanics' Liens Ordinance, reviewed and updated; separate record for chattel mortgages for equipment bearing serial numbers; adjustment of rates, classifications and regulations or workers compensation insurance; premiums to be paid in installments
	27288-89			MacLeod Carter		Prime contracts designated as union; special project agreement for pipeline unionization
	27323-29			Hinchey MacLeod Ashton	NWT/CC	Necessity of increase in hourly rates due to overtime, impact on safety of personnel, quality of performance
180	27834	Sept. 7		Hodson	MVPI	International unions participating in Canadian Pipeline Advisory Council: International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers of America; The International Union of North America; The United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of the United States and Canada; The International Union of Operating Engineers, Founding of Pipeline Contractors Association of Canada, membership, Collective Bargaining Agreements
	27834-36			Hodson		Territorial residents must have priority placements, local labour maximized; Territorial residents subject to same disciplinary measures; Territorial residents' membership in union
	27851			Hodson		

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180	27855-58	Sept.7	YK	St. Eloi	MVPI	Assumption that project will operate under one collective agreement, type of agreement: overall package, no strike or lockout provision, workmen rotation, first aid facilities, union security provision, hiring hall provision, employment and training preference to northerners, definition of a northerner, camps, provisions of Mackenzie agreement, classroom accommodation at plant site
	27862			St. Eloi		Native involvement in union affairs
	27866-68			Berger St. Eloi		Non-union operation of pipeline, reluctance of gas companies to hire from organized construction, qualified workers not hired because of union membership, position of pipeline contractors.
	27873-78			Hodson	MVPI	Quota of northerners hired for pipeline work discouraged; criteria for eligibility of natives to work on pipeline
	27881-85			Nessel Berger Hodson	MVPI	Preferential treatment for northerners before they are hired, not after; training schools for northern residents
	27890-97			Nessel Berger		Pre-job conferences to inform northerners of employment opportunities; failure of quota system to operating engineer; role of unions on pipeline job
	27908-11			Berger Nessel		St. Mary's Dam project, natives admitted to union, fee paid by payroll deduction; difficulty of labour force being part union, how the situation is handled
	27942-50			Nessel St. Eloi Dyck Whiteford	MVPI MVPI	Lead time needed to sort out workers, probationary period, training course on northern living and working environment; feasibility of part union project; preference for northern contractors; no preference for natives once they are hired
	27958-69			Nessel Marriott Whiteford St. Eloi	MVPI MVPI MVPI MVPI	Work schedules, time off; natural breaking points, Christmas and spring break-up; union dues paid by payroll deduction; initiation fees established by various collective agreements
	27989-93			Whiteford Nessel Dyck St. Eloi Marriott	MVPI	Location of hiring halls; contacting people by Telex or radiophone; length of reporting period; attraction to long hours of work and high wages
	28016-19			Nessel Hodson	MVPI	Work schedules; unions negotiate with contractors, not clients; location of hiring halls
181	28040-41	Sept 8		McCambly	MVPI	Jurisdiction and membership of Alberta and District of Mackenzie Building Construction Trades Council
	28043-44			McCambly		Priority to northern local residents; four trade unions involved in construction, services to areas
	28048-51A			McCambly		Counselling, hiring halls, ensuring native employment, vs quotas; hours of work; banking facilities, safety, vs non-union employment
	28057-58			McCambly		Building trades Council, not deal with timing of settling native land claims
	28060-64			McCambly		Wage discrimination, hiring of northerners; native representation on unions, native recruitment to organization, financing of training
	28068-72			McCambly		Work schedules to accommodate traditional activities, preferential hiring of northerners
	28074-79			McCambly		Training programs, counselling for natives, manpower delivery systems for natives
	28084-88			McCambly		Possibility of hybrid projects agreement covering main conditions, attachments for trades, problems; involvement in trade assessment
	28097-100			McCambly	MVPI	Role in skill assessment, training, pre-training counselling, familiarization
	28105-08			McCambly		Role in monitoring native representation, general project agreement
	28113-15			Reimer	MVPI	Background information on CLC Energy Committee
	28119			Reimer		General issues concerning CLC
	28135-45			Reimer Mitchell	MVPI	Need labour code, certification; against joint councils, reinforce company values; right to trade union representation should be the rule; must insure preferential hiring, native rights can not be ignored

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181	28163-68	Sept. 8	YK	Reimer Mitchell Nousiainen	MVPI MVPI MVPI	Apriori right to representation without going through channels of certification, difficulties under present laws; workers should have choice of union; union to cover all workers
	28169-77			Nousiainen Berger Reimer Mitchell Steeves	CAGPL	Workers have no say in Joint Councils; against company unions; greater worker involvement in Germany and Sweden; should have bargaining rights without seeking them; fear of one big union; organization of workers not directly involved with pipeline
	28178-80			Reimer		Smaller gas plants in Alberta unorganized; special legislation needed for people in north
	28185-86			Breckenridge	MVPI	Legislation must be passed re labour relations
	28193-98			McRae Breckenridge	MVPI	Support Canadian Labour Congress position of labour legislation, present laws and certification procedure is "horrendous", examples given; need pipeline agreement; problems of rapid unionization; composition of NWT Labour committee
	28202-03			Breckenridge		NWT Labour Committee, interaction with native government over provincial status for territories
	28203-04			McRae	MVPI	Pipeline organizations free to negotiate highest wage possible, problem of retaining workers outside pipeline
	28210-18			McRae Breckenridge	MVPI	Composition of Labour Co-ordinating committee; question re evidence fully representative; special work schedules for natives, to accommodate lifestyles, did not work for International Nickel company due to emergencies, successful at Gordon Mines; how cycle scheduling works; high turnover rate
	28219-22					Preferential hiring in Manilala; concern with industry outside pipeline; support Canadian Labour Congress proposal for new Labour legislation, reasons
	28227-30			McRae Breckenridge		Special consideration for new native employees not official; unions against long working hours; good wages on pipeline
182	28252	Sept 9		Forth	MHA/NWT	Salary competition between delivery of essential services and hydrocarbon jobs
	28331-36			McCombs Clayton Forth	MHA/NWT MHA/NWT	Screening out undesirable employees, DEW line personnel model, effectiveness; willingness of trade unions to submit to test; orientation program for southerners to ensure sensitivity, legal rights of employee
	28379			Clarke	COPE/ITC	Danger of underestimating demand for jobs, more hired than needed
186	28820-71	Sept 16		Basham Braden	MVPI MVPI	Role that unions play determining entry to the work force; entry to union; responsibilities imposed on unions; educating applicants to benefits of membership; union involvement in operations and maintenance; unions will dictate terms - manpower delivery system; apprenticeship training; 48 hour call ruling; native placement in spreads; legislation re apprenticeship journeyman ratios, wages; legislation to control unions re hire of apprentices; authority of Agency manpower delivery system; CLC universal certification
192	29909	Oct 4		Baring-Gould	MVPI	Dominant union affiliations at Valdez; Labourers, Operating Engineers, Teamsters Culinary Workers
198	31240-41	Oct. 14		Witty	MVPI	Discussions with unions on use of northern labour force
	31280			Carnew	MVPI	No contact between continuing education and unions
	31287-90			Carnew Witty		Admission to trade unions after completion of training; work in NWT, except mining industry is non-union
	31301-03			Berger		Comment on unions' brief and on-the-job training; must not train people for jobs they are not going to get
	31377-79			Sterling	MVPI	Cypress Anvil Agreement; Nanisivik Mine agreement re: quarantine deposit

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198A	31410	Oct. 14	YK	Christie	MVPI	Employees should be counselled on union hiring hall procedures
	31413-16			Christie		Ensuring native people access to union locals and hiring halls; payment of doby dues; Six Village Agreement, local hire in Alaska
	31433			Nicholson	MVPI	Unions should be involved in training Alaskan natives for pipeline construction
	31441-44			Schulz	MVPI	Trainee's relationship to union in Alyeska - union on-the-job training program; wage scale of trainees
	31452-53			Christie	MVPI	Staging centre, 48 hour delivery rule; problem of reaching rural Alaskan natives to work on pipeline
	31457-58			Schulz		Entry into Alyeska Union On-the-Job Training Program, exposure to Operating Engineers craft
202	31941-43	Nov. 17		Bayly	COPE/ITC	Manpower delivery agency, union membership, grievance procedures, counselling, hiring halls, work schedules

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XVI	1774-78	Mar.12	YK	Dau	CAGPL	Regulatory approvals
43	5604-09	May 22		Horte	CAGPL	Brackett's evidence before Commissioner
	5624-32			Horte		Brackett's evidence before Commissioner
	5693			Gibbs	Foothills	Hearings, Alaskan Arctic Gas
49	6460-91	June 5		Horte		Brackett - Mcf mile method
50	6692-93	June 6		Horte		Decision re: Prudhoe Bay gas down Fairbanks corridor
51	6846	Aug.11	WH	Dau		Costs of Interior route; share of Canadian costs
52	6939-38	Aug.12		Williams Dau	CAGPL	Regulations re routing through Arctic Wildlife Range
53	7078-81	Aug.13		Banfield	CAGPL	Dept. of Interior decision on Arctic Wildlife Range
53A	7315			Thompson	CARC	Legislation re public domain lands
54	7486-87	Aug.14		Weeden	CARC	Interior route; ditch an impediment to animals; impact on wildlife, birds re testimony given to FPC hearings in Washington D.C.
	7544			Weeden		Pipeline route alternatives; Alaska filing of an official position with Federal Power Commission; use of existing Alyeska Corridor
	7565			Parker	CARC	Alaskan Department of Highways in a review to the FPC, stated that the snow road concept not proven satisfactory
	7579			Weeden		Filing before FPC; policy to be adopted versus route selection and location
55	7653			Banfield		Evidence given before FPC re: status of polar bear
C-23	2333-40			R. McCandless	Citizen	Demand for resources; FPC hearings
68	10202-05	Sept.24	YK	Berger		Regulatory framework to monitor Alyeska line
75	11033	Oct. 20		Parker	CARC	Study done by State of Alaska re observation of snow road use in the Mackenzie Delta
	11036			Weeden	CARC	Representation of the position of the State of Alaska and consensus of a large body of biologists and environmental scientists
	11061			Parker		Land use planning for Prudhoe Bay field; Kemik, Kavik outside the field of unit plan; appearance before Federal Power Commission
	11089			Weeden		Statement prepared for presentation to F.P.C., ultimate pipeline operating temperature
	11041			Weeden		Various bureau and departments involved in the research and preparation of the Environmental Impact Statement; presentation to Federal Power Commission case
	11117			Weeden		Concerns of biologists re caribou , Federal Power Commission hearings
	11128			Weeden		State of Alaska opinion, F.P.C. opinion re route choice, Interior or Coastal
	11135			Parker		Federal Field Committee for development planning in Alaska; Valdez re tanker standards

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76	11145-51	Oct. 21	YK	Parker Weeden	CARC CARC	Application filed before F.P.C., proximity of El Paso line with Alyeska right-of-way
	11156-79			Parker Weeden		State of Alaska plans and decisions re Alyeska corridor, research and studies
	11179-11298			Parker Weeden		Alaska policy re All Alaskan pipeline; Canadian pipeline; Federal Power Commission
85-A	12786	Nov.12		Scott	MVPI	Environmental Protection Agency silt load standards
88-A	13395	Nov.17		Berger		Petroleum reserve No. 4, Alaska
89	13430	Nov.18		Gunn	CAGPL	Aircraft overflight frequency Alaska, regulations
90	13661-62	Nov.19		Banfield	CAGPL	Impact of several corridor projects, American National Environmental Policy Act, Council of Environmental Quality Guidelines
91	13822	Nov. 20		Berger		Alyeska environmental inspection
94	14292-94	Dec. 2		Berger		Expressed by Alaskan government officials for avoidance of the Arctic National Wildlife Range; Alaskan energy corridor; Naval Petroleum Reserve No. 4
95	14369	Dec. 3		Jakimchuk	CAGPL	Alaska - gun laws
	14373-83			Berger Banfield		National Environmental Policy Act - Section 102; Council on Environmental Quality in the U.S.
96	14539-40	Dec. 4		Jakimchuk		Alaska Department of Fish and Game, Bureau of Sport Fisheries and Wildlife - transplants of musk-oxen
96	14681-84	Dec. 4		Jakimchuk		Research done by Alaskan authorities - Dr. Lent, Dr. Weedon; 40-Mile herd
97	14710-13	Dec. 5		Banfield		Studies of 40-mile caribou herd
	14717-20			Hollingworth	Foothills	FPC report on Fairbanks alternative route
	14770			Scott	CAGPL	
	14854-56			Marshall		Enforcement of regulations in Alaska
	14859			Berger		California preserved winter snow geese habitat
	14859			Scott		Beaufort Lagoon studied by U.S. Fish and Wildlife Service
98	14990	Dec. 8		Gunn	CAGPL	CWS should increase relations with U.S. Fish and Wildlife Service
	14999-15006			Jakimchuk	CAGPL	CAGPL study of grizzly bears with Alaska Fish and Game Dept.
99	15066-82	Dec. 9		Hemstock Banfield	CAGPL CAGPL	Arctic National Wildlife Range, development in range, alternative locations, formation, management, purposes of range, hunting
101	15423	Dec. 11		Peterson	CARC	National Environmental Policy Act; equivalent lacking in Canada
102	15570-74	Dec. 12		Peterson		National Environmental Policy Act
103	15745	Dec. 15		Walker	CARC	Preference for Interior Route
106	16165	Dec. 18		Berger		State of Alaska's Enforcement Office re: Champion
	16181-87			Lent	CARC	Arctic National Wildlife Range re: protected status, wilderness designation; preferability of Fairbanks route
	16247-77			Lent		Classification of wilderness areas, Wilderness Act, Fish and Wildlife Service, National Parks Service, Forest and Game research re: effect on caribou and moose, Department of Interior re: Trans-Alaska Pipeline - Constitution of State of Alaska re: discrimination
109	16730-32	Jan. 14		Veale	CYI	Federal Power Commission, preliminary Environmental Impact Statement; Alaska highway commission
110	16770	Jan. 15		Bergerud	CARC	Any treaty between Canada and U.S. should include safeguards for the caribou habitat
	16829-30			Bergerud Calef	CARC	Management with federal government of Porcupine herd
111	16946-53	Jan. 16		Lent		Alaskan wildlife management, enforcement agencies, problems, Alyeska pipeline
	16960			Lent		Alaska Conservation Society an intervener at FPC hearings

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C-27	2751	Sept. 10	FS	Erion	Citizen	American government re: subsidization of pipeline finances
C-34	3306	Oct.15	YK	Aylogt Berger	Citizen	Treaty between Canada and United States re use of gas, safe passage of gas within countries
128	19526-28	Feb.18	IN	Berger Milne	COPE	U.S. drilling in Beaufort Sea, cost of ecology study
129	19654-55	Feb.19		Gibbs	Foothills	Evidence of State of Alaska before the Federal Power Commission, use of borrow material in North Slopes
131	19905-15	Mar.17	YK	Gibbs Williams	CAGPL	Evidence before F.P.C. by W.H. Copeland re North Slope water supply; snow supply for snow roads; snow road construction
	19940-47			Gibbs Williams		Evidence before F.P.C. by O.K. Gilbreth, Jr., effects of cold on workers, equipment; workers leave during Christmas period
138	20945	Apr.6		Norton	MVPI	Joint State/Federal Fish and Wildlife Advisory Team, parent agencies U.S. Fish and Wildlife Service and Alaska Department of Fish and Game
151	23096-98	May5		McClellan	CYI	Use of American soldiers to build Alaska highway; U.S. Public Roads Administration and War Department
	23125-B-26			Cruikshank	CYI	Appointment with Canada of a joint Canada - U.S. Committee on a International Highway, 1931
	23138			Johns	CYI	U.S. government hired guides to aid construction of Alaska highway
	23169			Smith		Problems with control of multinational corporations
C-56	6085	May 19	REG	P. Prebble	Citizen	Department of the Interior, proposed five year delay
155	23765-89	June 30	YK	Forrest	NWT IB/MA	Negotiations with Alaskan natives, land claims; Federal Bureau of Land Management; Secretary of the Interior; Alaska Natives Claims Settlement Act
	23803-11			Forrest		Negotiations, land claims, Alaska; Federal Bureau of Land Management
	23818-22			Forrest		Establishment of regional corporations, Alaska land claims settlement; State of Alaska
159	24447-50	July 7		Boorkman	CAGPL	State of Alaska, amount of planning done before Alyeska pipeline
169	26216-23	July 23		Stanley	NWT IB/MA	Ignored Passamaquoddy Indians, Maine; defeat of some programs on reserves; history of role of Indian agent
	26231			Stanley		Bureau of Indian Affairs, attempts to generate economic development, Pine Ridge reservation
	26259-68			Stanley		Federal agencies providing seed money for projects, but not enough to keep them operating
	26326-27			Stanley		Allotment Act, land claims experience
171	26612-19	Aug. 17		Dixon	MVPI	Problems in getting data, not organized; suggestions to improve
	26683-91			Dixon		Alaska, change in governors, change in development attitudes but doubtful relationship with pipeline, lack of foresight in regard to social impact planning
182	28295-98	Sept 9		McCombs	MHA/NWT	Prior to 1975 Alaska Community Mental Health Center Legislation, policies were formulated by State, funding for projects
	28352-53			Bayly McCombs	COPE/ITC	Less dependency on state for parental services than in NWT
196	30772-77	Oct. 12		Skinnarland	CARC	Arrangement with pipeline consortium to build Alaska Pipeline; agreement between Department of Interior and State of Alaska over land and renewable resources; implementation of pipeline stipulations by U.S. Federal Government
197	31050-53	Oct. 13		Norton	MVPI	Alaska's close kinship with Canada; Alaska anxious to complete pipeline construction early
199	31552-53	Oct. 15		Zemansky	COPE	Agencies concerned with oil handling during Alyeska Pipeline construction: Alaska Department of Environmental Conservation DEC; Alaska Department of Labour; Department of Interior: Alaska Department Fish and Game

VALLEYS AND VALLEY WALLS

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XV	1730	Mar.11	YK	Dau	CAGPL	PAAG Report, CAGPL's Responses to impact on valleys
XIX	2180-83	Mar.17		Clark	CAGPL	Geothermal data; slope stability, permafrost, river crossings
XX	2402-05	Mar.18		Clark		PAAG Report, 8:8; selection of river crossings; Thunder and Great Bear Rivers
XXVIII	3506-08	Apr.11		Scott	MVPI	Slopes, potential instability
XXXVIII	4972	May 14		Dau		Movement of trailers in ROW areas with steep walls
42	5515-22	May 21		Scott Hurd	CAGPL	Crossing or fording, risks
70	10567-94	Sept.26		Lewis	MVPI	Babbage and Blow Rivers; susceptibility to mass movement
78	11511 11553-55 11587-96	Oct. 23		Roed Roed Roed	CARC	Mackenzie Valley; terrain sensitivity; pipeline corridor Steepness of river banks; rising of a river East of the Franklins route; large number of deep valleys along Mackenzie Route lead to concern; deep river valleys ie. Willowlake River, Thunder River, River Between Two Mountains; pipeline route
83	12354	Nov.7		Scott Hemstock	CAGPL	Borrow sites often found in valleys
105	16079-122	Dec. 17		Stein	CARC	Mackenzie Valley re: standard levels of sediment; conflicts between types of fisheries, fish in minor tributaries, guidelines for protection of fish resources of NWT during highway construction and operation

VEGETATION CLEARING

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XIX	2204 2206	Mar.17	YK	Williams	CAGPL	Sans Sault test site; hand clearing of ROW
XXVI	3216-19	Apr. 9		Clark	CAGPL	Trees
XXVII	3363-65	Apr.10		Slusarchuk	CAGPL	Removal moss, grass, small brush
XXVIII	3530 3552-53	Apr.11		Berger Scott	MVPI	Tree cover Disturbance of organic mat, instability
XXXIII	4232-33 4308-09 4337-38 4352	Apr.21		Dau Williams Dau Dau	CAGPL	ROW - winter '76, '77 Inuvik snow road - black spruce, etc. Hand Clearing Tundra removal and revegetation
XXXVIII	4950-58 4962-76 4978-87	May 14		Goudge Dau Williams Williams	MVPI	ROW, stripped organic layer, clearing by hand/chain saw ROW skylining Snow roads, cropped tree cover; hand/machine
XXXIX	5150-53	May 15		Harlan	CAGPL	ROW cuts - depression fills up - drainage problem
44	5742-45	May 23		Bell	NWT IB/MA	Hand clearing for pilot pipeline route location survey; helicopter transportation
46	6104-08 6125-30	June 2		Templeton Bliss	EPB EPB	Grading, slash burning - severe potential impact Minimum clearing to avoid surface disturbance
48	6396-6404	June 4		Bliss		Sec 17 of Code: degradation of permafrost
62	8766-67 8825-29 8838-44	Sept.17		Mirosh Mirosh Mirosh	Foothills	Pipeline right-of-way; width of clearing Clearing and cutting of timber on the right-of-way; operation and maintenance; erosion control; revegetation, soil stabilization of the cleared right-of-way Right-of-way width, river and waterbody crossings; additional space may be required due to use of equipment or environmental considerations; grade considerations; non-conventional highway equipment; creation of access roads; shoo-fly roads
64	9396	Sept.18		Claridge	Foothills	Impact of clearing in permafrost area across Ebbutt Hills
65	9576 9606 9619	Sept.19		Claridge Bauer Kosten	Foothills	Hand clearing in sensitive terrain Use of hand & machine clearing, reason for clearing a year before construction commences Most southerly spread may be working in same year as clearing

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66	9657-60 9667 9678-79 9746-52 9811-13	Sept.22	YK	Mirosh Kosten Mirosh Mirosh Kosten	Foothills Foothills	Scheduling shown on graphs In advance of construction; some reparation in construction year Clearing in advance reduces manpower peaks; avoids bottleneck & congestion Crew size & number; average size; number totalled with grading crews Unskilled workers employed in clearing gain training advantage
67	9839-55 9910-13 9930-45 9964	Sept.23		Bauer Mirosh Kosten Bauer Mirosh	Foothills	Machine & hand clearing; schedule; use of wood chippers; impact of chippers; burning sleds; clearing of sensitive permafrost areas; employment for northerners; cutting & filling of slopes; use of granular material or fabric Timing of clearing of Yellowknife - Pine Point lateral Scheduling of clearing; location of areas to be hand cleared; problem of exposure of permafrost Advantages of summer work
70	10517 10533 10545-54	Sept.26		Owen Owen Longlitz	MVPI MVPI	Gathering lines cut by hand; equipment tracks and land damage Clearing of the right-of-way; width; Pointed Mountain Hand clearing; winter constructions; regrowth
72	10717-18	Oct. 15		Marshall Longlitz	CAGPL	Hand clearing of access roads; summer and fall operation; use of orthophoto mosaics; need for helicopter, access of crews; snow cover and ice rich soils
79	11697-98	Nov. 3		Minning	CAGPL	Little clearing in upland plains; buffer zones of undisturbed vegetation
80	11938-46	Nov. 4		Hemstock Williams	CAGPL CAGPL	Land and machine clearing; disposal and burning of timber
82	12164-68	Nov. 6		Dabbs	CAGPL	Greater impact along interior route
83	12401	Nov.7		Williams		Stripping off vegetation, borrow pit, Thunder River
85	12722	Nov.12		Williams		Art-line survey for additional environmental information, river crossings
87	13168	Nov.14		Marshall Reeves	CAGPL Foothills	Archaeological surveys after clearing
88	13266-72 13282-83	Nov. 17		Reeves Reeves		Archaeological surveying after clearing Most archaeological sites found after clearing
88 A	13394-95			Berger		Clearing for Mackenzie highway
89	13543-46	Nov.18		Dabbs		Cost calculations
90	13582-83 13674-93	Nov.19		Dabbs Dabbs		Effects on depth of snow, right-of-way Tree succession after right-of-way clearing
98	14955	Dec.8		Jakimchuk	CAGPL	No right-of-way clearing, coastal route
114	17385	Jan.22	In	Mainland	GPC-D-I	Taglu gas field, possible use of trees cleared from CAGPL ROW for piles
115	17576	Jan.23	See	1077	GPC-D-G	Parsons Lake gas field, possible use of timber cleared from pipeline ROW for pilings
132	20151-52	Mar.18	YK	Williams		Summer clearing of ROW by hand, spreads A,B,C

VEGETATION (DESCRIPTIVE)

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XIX	2198	Mar.17	YK	Williams	CAGPL	Sans Sault test site;
XXV	3003	Apr.8		Hardy	CAGPL	Factor in river crossings
XXXII	4124	Apr.18		Reid	CAGPL	Spilled methanol in contact with surface vegetation
XXXVIII	4823-28 4999-5002	May 14		Bayly Williams Goudge	COPE/ITC MVPI	Ground cover Damage, snow roads
XXXIX	5007-13 5092-96 5134	May 15		Williams Dau Harlan	CAGPL CAGPL	Snow roads - penetration by heavy equipment, damage Compression to encourage freezing - conventional construction method Factor of erodability

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40	5251 5260-62	May 16	YK	Hurd	CAGPL	Movement of heavy equipment in winter to prevent damage Forest, grass, tundra fires
42	5406-07	May 21		Hurd		Repair areas damaged by fire
46	6045-47 6069 6076-77 6121-47 6139-47	June 2		Templeton Craik Craik Bliss Bliss	EPB EPB EPB	Serious impacts, environmental matrix EPB report #1 appendix 3 Disturbance studies Fundamental role in natural systems, possible impact Types susceptible to burning
53A	7359-75	Aug.13	WH	Geist	CARC	Productivity of northern ecosystem
55	7609-24 7334-35	Aug.15		Hughes Morlan	CARC CARC	Organic deposits re: muskeg; slope failure; influence on permafrost distribution; fire and removal of organic covering; influence on route assessment Vegetation change over time; tundra type different; support of different mammals
63	9005	Sept.17	YK	Beer	Foothills	Vegetation cover may help to attenuate noise especially grassland and thick tree cover
70	10551-54 10561-63 10570	Sept.26		Longlitz Longlitz Lewis	MVPI MVPI	Clearing techniques; burning of vegetation mat; tree cover and disposal of cleared matter Terrain types susceptible to damage by all terrain vehicles re: winter access roads Yukon north slope rivers; high bar surfaces; plant cover; perennial vegetation; flooding
77	11346-443 11452-88	Oct. 22		Rutter Roed	CARC CARC	Organic matter, peat plateaus, palsas swampy depressions; timber stands in the Mackenzie Valley area; reports and studies; terrain information; east of the Franklins Edge of the shield route; fluted moraines; terrain advantages; soil suitability
79	11698 11712-31 11744-75 11770-11812	Nov. 3		Minning Dabbs Dabbs Dabbs	CAGPL CAGPL	Spruce, aspen and birch at Oscar Creek Gap borrow site Direct evidence re techniques and species to be employed by CAGPL in restoration Cross-examined by Foothills re vegetative zones, soil replacement technique Seed mixes, agronomic species, erodibility ratings
80	11927-29 11951-55	Nov. 4		Dabbs Dabbs		Impact of snow roads on vegetation Pioneering and native species, aquatic macrophytes, effect of ponding, agronomic revegetation
81	11959-60 12076-77	Nov. 5		Dabbs Dabbs		Types of seeds used in high, medium and low erosion areas Vegetation sparse on fossil flood plain
82	12163 12205-07 12302-03	Nov. 6		Dabbs Dabbs Dabbs	CAGPL	More forested area along interior route; amount of biomass not necessarily greater Seed mix tables Meadow species in test mixes
83	12345-48	Nov. 7		Dabbs		Suitability of some tundra community types for removal and replacement after construction
86	12820 12853-71 12922-53	Nov. 13		Drew Vaartnou Vaartnou	Foothills Foothills	Vegetation information part of terrain sensitivity rating Plants used for revegetation Plants used for revegetation
87	13091-92 13123-63	Nov. 14		Bayly Reeves Vaartnou	COPE/ITC Foothills	Recognizing campsites by vegetation Plant types for revegetation
88	13201 13249-50	Nov. 17		Ryder Bouckhout Lawrence	MVPI Foothills Foothills	Protection of vegetation Vegetation growth due to sewage discharge, Camp Takhini

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VEGETATION (DESCRIPTIVE)

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88	13328-38	Nov. 17	YK	Vaartnou	Foothills	Revegetation, species used, tests; seeding
	13371-80	Nov. 17		Dabbs	CAGPL	Revegetation, species used, tests
89	13531-70	Nov. 18		Dabbs		Terrain classification, revegetation species, seeds
90	13571-640	Nov. 19		Dabbs	CAGPL	Revegetation seed production, mixing; effects of snow roads; trampling, eating by animals; methanol, toxic liquids, effects
	13671-731			Dabbs		Revegetation species, plant succession
	13734			Dabbs		Monitoring of revegetation by aircraft
94	14304-07	Dec. 2		Jakimchuk	CAGPL	Growth of vegetation in the North Slope; post calving aggregation; food requirements
98	14866	Dec. 8		Gunn Scott	CAGPL MVPI	Vegetation important for birds
99	15078-79	Dec. 9		Banfield	CAGPL	Plant species of North Slope province
	15116			Kondla	Foothills	Differences, CAGPL and Foothills land traversed
	15185			Kondla		Time needed for complete report on community lateral routes
100	15222-24	Dec. 10		Kondla		Future studies, surveys; forest east of Delta, regeneration on ROW
	15282			Marshall	CAGPL	Scheduling of Foothills vegetation studies
	15341			Kondla		Using existing clearings to protect native vegetation
101	15396-97	Dec. 11		Kondla		Need for study of rare and uncommon vegetation types; greater use of vegetation information to determine terrain sensitivity
	15448-57			Zoltai	CARC	E-S P studies, locations; permafrost, terrain, vegetation interrelations; specific terrain types, problems
102	15593	Dec. 12		Peterson	CARC	Campbell Lake - Dolomite Lake IBP site proposed for protection of unusual plant communities
105	16134-46	Dec. 17		Lent	CARC	Importance of cotton grass tussocks re: caribou calving grounds in Alaska, major nutrition during calving period, escape from insects; aufeis on river bottoms re: escape from insects; changes in vegetation phenology re: spring and early summer; cotton grass re: high protein content; change in availability of nutrients re: vegetative forms distributed over space and time
106	16181-87	Dec. 18		Lent		Arctic coastal tundra; Arctic alpine areas re: Arctic National Wildlife Range
	16278			Marshall	CAGPL	Dabbs re: vegetation work
108	16545-46	Jan. 13		Bliss	EPB	Impact of looping on surface terrain, forested areas; drainage control, thermal control; snow road damage
109	16630	Jan. 14		Thomson	EPB	Mackenzie Delta, climax vegetation
110	16776	Jan. 15		Lent		Lichen-forest fire controversy, caribou habitat; climax lichen range
	16834-35			Berger Lent		Greening of the North Slope, caribou, nutritional advantages
	16881-82			Lent		Lichen, foraging material utilized by caribou
111	16943	Jan. 16		Lent		Effects of air pollution on lichens, Scandinavian experience
112	17042-58	Jan. 20	In	Bliss	GPC-D	Various areas in Mackenzie Delta
	17084-96			Bliss		Importance of spruce, sedge lands, Delta area; timber for pilings, Fort McPherson, Point Separation, regeneration studies; slides of different vegetation in Delta, feeder line location to avoid some types; Caribou Hills, Campbell Lake areas; exclusion of development from important areas
	17100-08			Bliss	GPC-D	Lichens for reindeer on Delta, impact from sulphur dioxide; impact on Delta horsetails by toxic chemicals, its distribution; studies on effects of oil spill on vegetation
	17115-23			Bliss		Recovery rate after drilling mud spill; geese feeding, impact on vegetation; long-range impact of toxic spills
115	17502-03	Jan. 23		Faulkner	GPC-D-S	Niglintgak gas field, height of willows in area, will not remove

VEGETATION (DESCRIPTIVE) (continued)

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116	17649-50	Jan.24	IN	Rempel	GPC-D-I	Vegetation changes from road construction; surface slumping at Taglu, Niglintgak, and Parsons Lake; destruction of vegetation under air strips, pads, facilities and roads; slope stability, and erosion
	17710-12			Appleton	GPC-D-G	Effect of sulphur dioxide on lichens; effect of dust on plants
117	17768	Jan.26		Appleton		Snow road damage to vegetation
133	20138-40	Mar.23	YK	Dabbs	CAGPL	Studies of Delta; vegetation on Delta; revegetation
	20190			Dabbs		Southern Delta more tree covered than northern part
135	20446-51	Mar.25		Gunn	CAGPL	Importance of sedge lands for birds in Delta; impact of geese on revegetated areas
C-54	5692-95	May 17	EDM	Leeson	Citizen	Vascular plant flora of the Arctic

VEHICLES - ALL TERRAIN

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XXIV	2803-04	Apr.7	YK	Lane Williams	COPE/ITC CAGPL	Rolligon's, L.G.P.'s, snow removal
XXXIII	4294-95	Apr.21		Dau	CAGPL	L.G.P.'s
40	5212-14	May 16		Hurd	CAGPL	Types of low ground pressure equipment
	5250-51			Hurd		L.G.P. crane,
	5263			Fielder	CAGPL	Types of equipment
41	5300-08	May 20		Fielder		L.G.P.'s, A.C.V.'s.
42	5413	May 21		Bayly	COPE/ITC	A.C.V.'s, L.G.P.'s; noise levels; loads
	5501-07			Scott	MVPI	A.C.V.'s experimentation; operating specifications
46	6118	June 2		Adam	EPB	Severe impact - thermal erosion
	6133-34			Bliss	EPB	L.G.P. vehicles for emergency repairs
66	9710	Sept.22		Jarvis	Foothills	Promotion of frost penetration by use of low pressure vehicles
	9740-41			Jarvis		Preparatory work & movement of snow-making equipment
	9819-21			Jarvis		Ploughing snow off ice; packing in saturated peat areas with low pressure vehicles
67	9860-62	Sept.23		Jarvis		Use of all terrain vehicles & preparation of snow roads near Fort Simpson - late October
	9937-41			Bauer Mirosh	Foothills Foothills	Use of all-terrain vehicles as mounts for machines for clearing
	10027			Jarvis		Depth of frost penetration before hauling permissible on snow roads
	10033			Jarvis		Early hauling carried out by low ground pressure vehicles
68	10095	Sept.24		Mirosh		Use on right-of-way
70	10560-63	Sept.26		Longlitz	MVPI	Impact of vehicles on terrain types, low ground pressure vehicles
72	10722-31	Oct.15		Longlitz	MVPI	Soft tired vehicles; rologons, J-5 Bombadier; impact on right-of-way; snow road use
74	10986	Oct.17		Williams	CAGPL	Snow roads; soft track vehicles; compaction of snow on peat land, surface mosses and the increased thermal conductivity
	11012-13			Williams		Bechtel Rologons; frost penetration and snow roads at Inuvik
75	11084	Oct.20		Weeden	CARC	Years of crossing the tundra in track vehicles has left bare patches; slow regrowth of vegetation
80	11932-34	Nov. 4		Dabbs Williams	CAGPL	Pressure limits of vehicles allowed on snow roads
86	13012	Nov.13		Williams		Crossing Mackenzie, Swimming Point, winter construction
94	14328	Dec.2		Gunn	CAGPL	Access from the Dempster Highway; greater capability for hunting

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99	15061	Dec. 9	YK	Banfield	CAGPL	Skidoos, impact on wilderness values of area
101	15457	Dec. 11		Zoltai	CARC	Possible damage to unfrozen fen terrain during pipeline repair
102	15669	Dec. 12		Novakowski	CARC	Destruction of small mammal habitat, food resources of fox
107	16336-38	Jan. 12		McT-Cowan	EPB	Uncontrollable access; skidoo and other such vehicles have changed the pattern of hunting; harassment and disturbance of wildlife
108	16505-06	Jan. 13		Templeton	EPB	Equipment used in construction of a seismic line-bulldozer with shoes, non cutting of the surface
109	16625-26	Jan. 14		McT-Cowan		Snow mobile access, hunting, wildlife harassment
C-34	3278	Oct.15		Russell	Citizen	Nodwell and Bombardier, large track vehicles
	3282-83			Workman	CAGPL	Rologon can cross pipeline right-of-way without damaging terrain, use in forest fire emergencies
114	17415	Jan.22	In	Mainland	GPC-D-I	Taglu gas field, use of hovercraft
130	19778-79	Mar.16	YK	Williams	CAGPL	Re-routing across delta requires amphibious transport equipment
131	19916-17	Mar.17		Williams		Rologons not heavy enough to compact snow road
	19926			Williams		Tests on rologons to compact snow roads by Muskeg Research Institute
	19965-66			Williams		Amphibious vehicles for operations and maintenance
132	20011-12			Williams		A.T.V.'s may be used to repair pipe in summer on Delta; one stationed at Inuvik
134	20256-60	Mar.24		Webb	CAGPL	Effects of hovercraft on whales
136	20755	Mar.26		Hunt	MVPI	Domestic fishing site, conflict with hovercraft docking site at Arctic Red River
C-52	5291-92	May 13	CAL	M. Thiel	Citizen	Development of terrain transportation equipment in Canada
	5370-74			J. Rymes	Citizen	Bombardier, Odwell, equipment

VIOLENCE

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146	22263-64	Apr.27	YK	McCullum	NWT IB/MA	Incidents in Fort George, Quebec; Norman Wells
147	22372	Apr.28		Young	NWT IB/MA	Reaction if native rights are not respected, possible damage to dams, hydro power lines, pipelines
153	23424-25	May7		Sharp	CYI	Natives beaten by whites, due to drinking, Ross River
	23503			Sharp		Violent death incidents in Ross River
C-47	4590-91	Mar.13	ARR	A. Andre	Citizen	To counteract decision to build pipeline; natives and builders, leniency towards builders
C-53	5436-37	May 14	CAL	Getty	Citizen	Potential for violence in Indian communities as they see their land destroyed
	5561-64			Small Legs	Citizen	Violence would not benefit anybody though Indians may be pushed to it by government or industry
C-55	5832	May 18	EDM	H. Daniels	Citizen	Reactions to physical, cultural genocide
C-57	6279-87	May 20	WINN	K. Emberly	Citizen	People to each other, against nature, potential violence of natives
C-64	7305-09	June 3	OTT	Manual Mathisen	Citizen	If pipeline is imposed on natives against their wish, may resort to violence
C-65	7478-81	June 4		F. Jobin	Citizen	Exploitation regarded as violence, say native people
163	25102-08	July 14	YK	Hobart	CAGPL	Anticipated problems if job opportunities do not materialize; relationship with quality of physical surrounding; among native people, result of intoxication

VIOLENCE (continued)

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168	26155-59	July 22	YK	Brody	COPE/ITC	Pond Inlet, increase due to drinking; Arctic Bay, no problems but concern for the future
	26175			Brody		Endemic, part of alcohol problems
	26205-07			Berger		Not regarded by natives as sufficient reason to stop drinking

WASTE AND DISPOSAL - SEWAGE, GARBAGE, ETC.

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XIX	2201	Mar.17	YK	Williams	CAGPL	Sans Sault site; sewage disposal plant
XXXI	3882-84	Apr.16		Anthony	CARC	Design, facilities
XXXVII	4781-82	May 13		Dau	CAGPL	Secondary sewage treatment
40	5236-37	May 16		Hurd	CAGPL	Tests, clear sewage effluent
41	5364-65	May 20		Lucas	CARC	Testing sewage effluent, government standards
46	6054	June 2		Templeton	EPB	Site specific impacts, coloured flags
47	6207-22	June 3		McT-Cowan	EPB	Danger to grizzlies
48	6410-13	June 4		Craik	EPB	Sec 23 of Code: disposal - land fill, storage - fences
C-III	166	Apr.4	Aklavik	Paul	Citizen	Increasing population
	172			Marring	Citizen	Left by oil companies
C-11	996-98	July 8	F.McP.	C. Koe	Citizen	Empty drums floating in lake; oil in water
	1060			S. Simon	Citizen	Sewage being dumped into local lake
C-16	1504	July 13	O.C.	J. Thomas	Citizen	Concern about sewage disposal
	1507			R. Bruce	Citizen	Disposal of sewage, water
53	7208	Aug.13	WH	Sprecker	CYI	Problems in Valdez due to pipeline
55	7620	Aug.15		Hughes	CARC	Impact of communities and mining operations; facilities
C-19	1891	Aug. 6	FGH	M. Heming	NHW	Concern about health hazards at construction camps
C-20	2029	Aug. 7		E. Kakfwi	Citizen	Seismic camps without sewage lagoons
	2030-31			G. Oudzi	Citizen	Northern construction pollution of river
C-21	2107-08	Aug. 9	NW	G. Loomis	Chamber of Commerce	N.W.T. Government should prepare for pipeline - strain on services
	2124			C. Barnabe	Citizen	Community improvements
	2155-57			G. Loomis	Citizen	Use of community facilities by pipeline companies
C-23	2365	Aug.14	WH	A. Cuvret	People's Land Comm.	Sewage treatment problem in Whitehorse
63	8991-92	Sept.17	YK	Lazerte	Foothills	Sewage lagoons - construction, treatment, weepage, scheduling of treatment, release and disposal of treated wastes, swampland
	9039-44			Lazerte		Public Health Ordinance rules re sewage lagoon; fence anerobic & aerobic ponds; waste disposal
	9057-59			Lazerte		Incineration and disposal of pipeline condensates & combustible solid wastes
	9069-70			Mirosh	Foothills	Different requirements for construction crews and operations & maintenance
	9082-91			Mirosh Lazerte		Design of sewage lagoons; problems in permafrost; incineration, physical-chemical package plant & activated sludge treatment process
67	9967-71	Sept.23		Mirosh		Sewage lagoons & incinerators at construction pads
71	10637	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Standard clauses in land use regulations re garbage control clauses
78	11646-53	Oct. 23		Minning	CAGPL	Water quality; sewage treatment and disposal re construction camps, physical-chemical process, solid waste disposal; landfill, lagoons; warm water pipe testing, water-methanol testing
81	11201-05	Nov. 5		Williams	CAGPL	Disposal of sewage in swamplands
	12085-93			Williams		Use of borrow pits to bury materials
85	12617-19	Nov.12		Bayly Williams		Spread "C", sewage, into sea, onto land
	12675-76			Bayly Williams		Sewage treatment chemical storage
	12690			Bayly		Sewage from camps

WASTE AND DISPOSAL - SEWAGE, GARBAGE, ETC.

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86	12873-79 12967-91	Nov.13	YK	Lawrence	Foothills	Camps, waste water treatment, disposal, standards
87	13116-21	Nov.14		Lawrence		Camps, waste water treatment, disposal
88	13234-58	Nov.17		Lawrence Bouckhout	Foothills	Camps, sewage treatment, Komakuk beach, lagoons
89	13442	Nov.18		Gunn	CAGPL	Sewage disposal, treatment, garbage disposal, camps
92	13997-14000	Nov.21		McCart	CAGPL	Birds scavenging on garbage
95	14360-67	Dec.3		Jakimchuk	CAGPL	Contingency plans; potential impact of sewage spill on water quality, fish; back-up treatment plants
106	16172-76	Dec. 18		Lent	CARC	Mammals attracted by garbage sites, at construction camps, compressor stations; Alyeska; incineration; firearms
	16262			Lent		Attraction to wildlife re: problems, incidents; air pollution; enforcement of stipulations re: solid waste disposal; litter re: styrofoam panels; food waste; garbage dumps; problems and results re: enforcement
111	16935	Jan. 16		Bergerud	CARC	Attraction to animals
C-25	2508-11 2562-63 2603-04	Sept. 8	FS	Black Ivans Hammond Black	Citizen Citizen Citizen	Garbage dumps upsetting food chain Expansion program re: sewer and water facilities New installations required re: population increase Sewage treatment plant
C-27	2727	Sept. 10		Cummings	Citizen	Honey bucket; sewer in home if pipeline
113	17160-61	Jan.21	In	Hobart	GPC-D	"In Aklavik, the honey bucket was the great equalizer"; egalitarianism in the community
114	17295-96 17302	Jan.22		Mainland Mainland	GPC-D-I	Taglu gas plant sewage treatment to be decided; sewage disposal Taglu gas plant sewage system; units for construction camps
115	17444 17544-45 17552	Jan.23		Faulkner Stamberg Stamberg	GPC-D-S GPC-D-G	Niglintgak gas field, sewage treatment design selection Parsons Lake gas field waste, sewage handling Parsons Lake gas field, final design of sewage treatment system
116	17628-29 17649 17650-51	Jan.24		Stamberg Rempel Rempel	GPC-D-I	Disposal of human waste, detergents, cleaning supplies after secondary treatment; sewage problems at dock site, holding facilities; waste waters, technical problems in permafrost Solid reference incineration, dispersion of unburned material to atmosphere Government standard for disposal
119	18160-71 18183-89	Jan.28		Shaw Shaw	COPE	Disposal of sump fluids, problems; nature of materials used in drilling Contents of sumps; criteria for disposal of drilling sump fluids, enforcement; importance of fluids mixed in disposal wells
126	19198-200	Feb.16		Snow	COPE/ITC	Sewage disposal at gas plants
133	20147	Mar.23	YK	Jakimchuk	CAGPL	Proper incineration to avoid attracting bears, Delta
134	20216-17	Mar.24		Jakimchuk		Enforcing garbage incineration regulation to discourage bears
135	20598-98	Mar.25		Sprague	MVPI	Regulations, standards for pollution of waterbodies
136	20657-63	Mar.26		Sprague	MVPI	Sewage disposal methods; land disposal best; disposal in waterbodies; standards
153	23506	May7		Sharp	CYI	Some people in Old Crow not wanting sewage
C-29	6518-19	May 26	TOR	M. Edwards	Citizen	Use of tele-stimulation to ward wildlife away from garbage dumps
159	24316 24417-29 24503	July 7	YK	Boorkman Boorkman Boorkman	CAGPL	Fairbanks, sewer system, insufficient capacity due to impact of Alyeska Alaska, provision of services in municipalities; no added facilities to cover boom population period Alaska substandard housing, health conditions

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165	25529-30	July 19	YK	Jensen	Foothills	Inadequate sewage and water treatment facilities
	25607-08			Reesor Ellwood	NWT/AM Foothills	Scheduled sewage pickup and water delivery where facilities not available
166	25738-39	July 20		Jensen Ellwood		Modular sewage and water treatment facilities, temporary and permanent installments, for use after construction ends
172	26728-29	Aug 18		Dixon	MVPI	Solid waste increased astronomically in Fairbanks with pipeline development; problems in Delta Junction and other small communities, Alaska
173	26934	Aug 19		Dittrich	COPE/ITC	Industries spilling oil and gas into Dolomite Lake, near Inuvik
	26988-91			Dusel	NWT/AM	Inuvik, need to expand present systems, utilidor costs, incinerators
	27002-03			Dusel		Fort Simpton, existing sewage system discharging untreated into Mackenzie
	27014-18			Dusel	NWT/AM	Hay River, existing systems, cost to upgrade
174	27075-76	Aug 20		Dusel Bayly	COPE/ITC	Three cell anaerobic lagoon in Inuvik, selection of site
179	27795-800	Aug 27		Berger Runge	MVPI	Use of construction facilities after completion, imposition of conditions on design
189	29379-81	Sept.22		MacLeod	NWT/AM	Water/sewer capital grants from Territorial government; sanitation and hygiene in removal of sewage
	29384			Robertson	NWT/AM	Comprehensive sewer and water grant policy
	29397-400			Robertson		Problems with sewage if Inuvik's population increases as predicted; sewage treatment plants
190	29661-62	Sept.23		Fergusson	NWT/AM	Hay River served by waterworks and sewage system
193	30092	Oct.5		Hernandez	EPB	Kitchen refuse disposal areas should be protected by a bear-proof electric fence
199	31566-70	Oct. 15		Zemansky	COPE	"Wastewater and Alyeska: North of the Yukon River" by Zemansky; Alyeska's compliance with state's water pollution control laws; state waste disposal wastes issued to Alyeska, enforcement

WASTE AND DISPOSAL - SOIL AND CONSTRUCTION WASTES, ETC.

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XXXIII	4314	Apr.21	YK	Williams	CAGPL	Disposal of brush - chipping machine
63	9052-53	Sept.17		Lazerte	Foothills	Facility required as yet undetermined by Foothills
64	9415-19	Sept.18		Spafford	Foothills	Method of disposal of soil in streams during breakup
	9422-36			Spafford		Calculations of stream & river flow, water levels; use of spoil material from river crossings for work pad
65	9601-04	Sept.19		Mirosh	Foothills	Staging areas planned by Foothills; differences from CAGPL
66	9661	Sept.22		Mirosh		Movement to sites of supply; transport to work sites
66	9782-84			Kosten	Foothills	Pulverization of rough spoil material; revegetation of spoil mound
67	9956-59	Sept.23		Bauer	Foothills	Disposal of fill used in slope stabilization
70	10516	Sept.26		Owen	MVPI	Burial of stumps in borrow pits
80	11915-17	Nov. 4		Clark	CAGPL	Disposal of excess borrow; use as sanitary landfill
81	12085-93			Williams		Use of borrow pits for burial of wastes
83	12509-16	Nov.7		Scott Williams	MVPI	Surplus spoil material on right-of-way, in borrow pits, on swampland
84	12525-32	Nov.8		McCart Williams	CAGPL	Surplus spoil material, on right-of-way, erosion measures; into borrow pits
100	15187-88	Dec. 10		Bouckhout	Foothills	Pipe testing fluid, fuels, lubricants; included in impact assessment
103	15776-77	Dec. 15		Steigenberger	CARC	Recommendations - Prime Route - re: product disposal and cleaning
	15790			Millen	CARC	Guidelines re: waste disposal from wharves, back up areas

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WASTE AND DISPOSAL - SOIL AND CONSTRUCTION WASTES ETC

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114	17283-84 17295-96 17361 17383 17391	Jan.22	In	Mainland Mainland Mainland Mainland Mainland	GPC-D-I	Taglu gas field, disposal of drilling solids, liquids Taglu gas plant, chemical, other waste disposal Taglu gas field, construction of waste sumps, dykes; materials disposed of Taglu gas field, disposal of waste drilling fluids, report Taglu gas field, design of waste sumps to prevent washout
115	17457-61 17507 17537-38	Jan.23		Faulkner Faulkner Stamberg	GPC-D-S GPC-D-G	Niglintgak gas field, containment sumps for drilling fluids Niglintgak gas field, disposal of facilities, equipment after abandonment Parsons Lake gas field, disposal of drilling wastes
116	17616-18	Jan.24		Stamberg		Back-filling rig swamps, amount of gravel needed; sub-surface formation disposal of mud system, reduction of sumps
122	18577-78	Feb.11		Barry	COPE/ITC	Poor management of drilling wastes
136	20676-77	Mar.26	YK	Sprague	MVPI	Drilling fluids escaping into waterbodies; ingredients of fluids

WATER QUALITY

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XX	2387	Mar.18	YK	Clark	CAGPL	Pollutants entering water at river crossings; thermal pollution; test fluids; water deficient in oxygen
XXVIII	3539	Apr.11		Morgenstern	CAGPL	Possible siltation from landslides
XXXII	4069-72	Apr.18		Reid	CAGPL	Methanol test fluid released
47	6169-70	June 3		Wilimovsky	EPB	Effect of construction and operation of pipeline
48	6396	June 4		Wilimovsky		Sec 16 of Code
C-17	1700-01	July 16	F.C.	H. Deneron	Citizen	Water unsafe in Fort Liard, needs to be boiled
51	6805	Aug.11	WH	Hemstock	CAGPL	Use of sewage treatment facilities and strict control of other project related sources of potential contamin- ation
54	7457 7541 7650-58	Aug.14		Weeden Parker Banfield	CARC CARC CAGPL	Impact of Fairbanks, Fort Yukon Corridors Drainage control; impact on fish stocks; culvert installation; camp sanitation, water treatment EPB report, Environmental Impact Assessment; protection levels
C-18	1811	Aug. 5	FGH	A. Wilson	Citizen	Effect of siltation at Hare Indian River crossing
C-21	2160-64	Aug. 9	NW	P.Tourangeau	Citizen	Pollution of water; cost of supply
63	8990-92 9038	Sept.17	YK	Lazerte Lazerte	Foothills CAGPL	Water sources for use by work force at compressor stations; well drilling; sewage lagoons and treatment facilities; disposal of treated water; swamplands Generally inferior quality of water taken from wells drilled in permafrost
71	10629-30	Oct. 14		Bayly Longlitz	COPE/ITC MVPI	Section 7 of land use regulations re: water crossings; clearing of debris; Section 31 re: bonds, security deposits
76	11225-28	Oct. 21		Parker Weeden	CARC CARC	Petroleum spills; entrance into the ground water, effect on frost bulb
77	11463	Oct. 22		Roed	CARC	Study re: water resources, availability
78	11646	Oct. 23		Minning	CAGPL	Waste water treatment re construction camps
81	12110-14 12131-34	Nov. 5		McCart McCart	CAGPL CAGPL	Deep aquifer Firth River Spring 2 - nitrogen bubbles present Dissolved oxygen in turbid water - impact on fish in Sagavanirtok River
82	12147-50 12271-75	Nov. 6		Dabbs McCart	CAGPL	Effect of seeds and fertilizer in waterways Concerns re impact of siltation on water systems
83	12487-91	Nov.7		Berger McCart Hemstock	CAGPL	Siltation, gravel mining, North Slope rivers, impact on fish eggs

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84	12561-65	Nov.8	YK	Anthony McCart	CARC	Water withdrawal, North Slope
	12571-72			McCart		Effect of campsites on water
	12589-609			Bayly McCart Williams	COPE/ITC CAGPL	Komakuk Beach compressor station, water sources, salination
85	12653-55	Nov.12		Bayly McCart		Construction camp treatment
	12675-88			McCart		Sewage treatment, methanol discharge, storage, chemicals
85-A	12786-90			McCart		Silt loads, effects on fish eggs; water by-pass at river crossings
86	12806	Nov.13		Hemstock		Information at river crossings
	12876-79			Lawrence	Foothills	Camp water supply, waste water
	12955-92			Lawrence		Camp water supply, sewage disposal
88-A	13384-86	Nov.17		McCart	CAGPL	Oxygen level
89	13506	Nov.18		Hemstock	CAGPL	Siltation, oxygen levels, contaminants, precautions
90	13637	Nov.19		Dabbs McCart	CAGPL	Revegetation fertilizer in streams
91	13768-44	Nov.20		McCart		Siltation, methanol, warm-water testing
	13837-43			McCart		Methanol, warm-water, impact on fish
93	14094-95	Dec.1		McCart		Protection of fish and streams already impacted, water-bodies
97	14803	Dec.5		Gunn	CAGPL	If coastal route used, Beaufort Sea must not be polluted
99	15120	Dec. 9		Hayden	Foothills	In Mackenzie Delta, could be adverse effects from cross Delta route
109	16701	Jan. 14		Wilimovsky	EPB	Need for standards of water quality
C-24	2397-99	Aug. 23	TL	E. Jumbo	Citizen	Impact of pipeline on water quality for drinking, animals and fish
C-25	2567-69	Sept. 8	FS	Black	Citizen	Fort Simpson future water supply source
C-26	2715	Sept. 9		A. Nahanni	Citizen	Importance of water re: survival; pollution
C-29	2851-52	Sept. 12	JMR	Norwegian	Citizen	Unsuitable for drinking due to development
C-31	2989-90	Oct. 7	FR	Bosley	Citizen	Paullette Creek - mine effluent pollution of lake
	2992-93			Sayine	Citizen	Water pollution from Pine Point Mines
	2995			M. Beaulieu	Citizen	Pollution from gold, ore mines
C-32	3064-65	Oct.8	FR	McConnell	Citizen	Pine Point Mines polluting water, harm to fish
	3090			McConnell		Pine Point Mines polluting water, cyanide
116	17666	Jan.24	In	Webb	GPC-D	Temperature of Shallow Bay, Mackenzie Bay
121	18430-31	Feb.10		Stein	COPE/ITC	Enforcement of drilling fluid, waste water disposal regulations
126	19284	Feb.16		Snow	COPE/ITC	Report - addition of crude to water eutrophication response
135	20574-601	Mar.25	YK	Sprague	MVPI	Evidence in chief on water quality criteria for protection of aquatic life
136	20630-35	Mar.26		Sprague		Studies of effects of oil refinery wastes on aquatic life
	20635-53			Sprague		Cross-examination by Marshall re water quality criteria to protect aquatic life
	20653-59			Sprague		Cross-examination by Hollingworth re water quality criteria
	20660-77			Sprague		Cross-examination by Bayly re water quality criteria
C-72	8082	Aug 11	RE	A. Arrowmaker	Citizen	Pollution of water caused by pipeline
C-76	8372	Aug 25	DET	I. Tsetta	Citizen	Oily taste of fish
C-77	8428-29	Aug 26		H. Tobie	Citizen	Mines spoiling it, children getting sick, fish will be affected
199	31566-70	Oct. 15		Zemansky	COPE	Alyeska's non-compliance with state's water pollution control laws, water pollution occurred because of violations

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XVII	1993-97	Mar.13	YK	Dau Bayly	CAGPL COPE/ITC	Water requirements per lineal mile; a factor in route selection; CAGPL Response 52; ice & snow roads
XXIII	2703-06	Mar.21		Williams Clark	CAGPL CAGPL	Removal of water from lakes for snow roads; total ecosystem concept
	2725-27			Clark		Aquifer, water source, pore water pressure, frost wall
XXXI	3966-70	Apr.16		Reid	CAGPL	Warm water testing, volume requirement, time in pipe
	3986-89			Reid		Methanol testing requirements
XXXII	4003	Apr.18		Reid		Volume of water required for pipeline testing
	4070-72					Methanol residue biodegradable in water
	4115-23					Testing - discharge of fluid
XXXIII	4316-18	Apr. 21		Williams		Snow manufacture - guns
XXXIV	4483-86	Apr. 22		Dau		Water for snow spraying machines
XXXV	4565-67/8	Apr. 23		Williams		Volume and sources of water for snow manufacture
XXXVIII	4831-32	May 14		Williams		Snow making equipment located near water
	4854-55			Dau		Snow making, ice-capping
	4875-76			Lucas Williams	CARC	Permits for water withdrawals
XXXIX	5018-19	May 15		Williams		Mackenzie River - snow making
	5029-31			Williams		Lake depths - snow making, increase water use
	5068-80			Williams		Disposal of spoil mound in rivers
40	5237	May 16		Hurd	CAGPL	Hauling to compressor stations; water treatment
52	7007-71	Aug.12	WH	Banfield	CAGPL	Requirements for snow roads
54	7475-76	Aug.14		Weeden	CARC	Need during winter construction; available sources; salt content; fish stocks; fish over-wintering
63	8984	Sept.17	YK	Lazerte	Foothills	Water storage capacity, sewage lagoon
	8989-92			Lazerte		Water storage; water requirements; water supply well drilling; water sources; sewage lagoons
	9034-38			Lazerte	Foothills	Volume of water required by compressor stations; identification of sources; compliance with Inland Water Act; water requirements for fire; success rate of drilling wells in permafrost & ground ice
	9069-70			Mirosh	Foothills	Different requirements of construction crews and operations & maintenance crews
66	9819-27	Sept.22		Jarvis	Foothills	Removal of snow & water from lakes for winter roads; impacts
	9832-33			Jarvis		Water requirements for use, bridges
67	9859-60	Sept.23		Jarvis		Environmental effect of snow/water removal part of impact assessment
	10007			Mirosh		Dredging; projected river travel & impacts of requirements
70	10555	Sept.26		Longlitz	MVPI	Snow cover and use in snow roads and winter construction operations
75	11100-04	Oct. 20		Parker Weeden	CARC CARC	Need for water during October and November for snow road construction; impact on fish and supply of water; availability of water prior to freeze up; aggravation by siltation and erosion caused by construction activities; stream crossings
7A	11644-53	Oct. 23		Minning	CAGPL	Water use requirement re pipeline construction; water supply development, governmental applications and guidelines; water treatment; water quality; sources and uses at compressor stations, construction camps; warm water pipe testing
80	11920	Nov. 4		Hemstock Dabbs	CAGPL CAGPL	Environmental soundness of snow harvests from waterbodies and land
81	12097-12114	Nov. 5		Harlan Williams	CAGPL CAGPL	Use for ditchline flooding camp use, snow and ice roads, testing; impact of use
82	12192-95	Nov. 6		Williams		Volume of water required along coastal and interior routes
83	12398	Nov.7		Scott Williams	MVPI CAGPL	Demand for water at Thunder River site for concrete
84	12557-71	Nov.8		Anthony McCart Hemstock Williams	CARC CAGPL CAGPL	Water withdrawal, sensitive areas; compsite effects; CAGPL guidelines, recommendations

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84	12585-609	Nov. 8	YK	Bayly McCart Williams	COPE/ITC CAGPL CAGPL	Komakuk Beach compressor station, sources, volumes, salination by storms, flow, campsite requirements, Spread "C", snow roads, fish impact
85	12620-54	Nov.12		Bayly McCart Harlan Williams	CAGPL	Water withdrawal, North Slope, critical areas, aquifers, water treatment
	12690-92			Williams		Camp water storage, compressor stations, water withdrawal
	12708-37			Scott Environmental Panel	MVPI CAGPL	Impact, river crossings, Blackwater River typical; water withdrawal, Firth River
85-A	12741-90			Scott McCart		Water withdrawal, Mackenzie Valley, North Slope; wiltation
86	12873-79	Nov.13		Lawrence	Foothills	Camps, water supply
	12953-67			Lawrence		Camp water sources, studies, water requirements
	13041-45			Williams		Water for snow road manufacturing, Fort Simpson spread
87	13119-20	Nov.14		Lawrence		Water supply studies
88-A	13385-88	Nov.17		McCart		Water withdrawal, obstruction of sub-surface drainage
95	14402-05	Dec.3		Gunn McCart	CAGPL	Water availability studies; recommendations re: avoidance of certain kinds of lakes
100	15216-22	Dec. 10		Hayden	Foothills	Future studies, water withdrawal, impact on fish
101	15462	Dec. 11		Zoltai	CARC	Water for snow road making, Northern Yukon, limited supplies
	15478-80			Zoltai		North Slope, spring near Firth River
103	15728-30	Dec. 15		Stein	CARC	Water removal from fishless lakes and streams re: pipeline testing, construction of snow and ice roads, camp use
	15748-54			Walker	CARC	Water use impact re: fish resource on Coastal, Interior Routes, Fort Yukon, Fairbanks corridors
	15780-88			Steigenberger	CARC	Water utilization recommendations - biological and engineering considerations, re: fisheries
	15815-21			Stein		Lake water utilization considerations; spawning site definition in small streams; domestic utilization - Big Fish River re: threat to fish population stability
105	16006	Dec. 17		Walker		Impacts of line on aquatic resources
	16040-52			Steigenberger		Water availability re: construction; impact on over-wintering, spawning habitats; refuge areas philosophy; use in snow roads; domestic purposes; testing
	16079-87			Walker		Necessity of adequate information re: water quantities; isolated sources of water for fish in winter re: groundwater
114	17288	Jan.22	In	Mainland	GPC-D-I	Taglu gas field, water to cool small equipment
	17295			Mainland		Taglu gas plant, water source Kuluarpak Channel, Mackenzie River
115	17543-44	Jan.23		Stamberg	GPC-D-G	Parsons Lake gas field, water treatment, sources
116	17652-53	Jan.24		Rempel	GPC-D-I	Water for gas plants from reservoirs, effect on areas' aquatic resources
130	19776-77	Mar.16	YK	Williams	CAGPL	Less water required, due to research
131	19898-914	Mar.17		Williams		Water requirements reductions for snow making; supply problems, North Slope, Alaskan experiences; water supply on Delta spread
	19929-30			Williams		Water requirements for snow manufacture
136	20620	Mar.26		Hemstock	CAGPL	Water availability poorer along "DEW line route", North Slope
147	22428	Apr.28		Richardson	NWT IB/MA	Water supply of Fort George, P.Q., Sotrac, under James Bay agreement
	22465-66			Young	NWT IB/MA	Detrimental effects of damming at Nelson House, Manitoba; water quality, flooding
173	26986-90	Aug 19		Dusel	NWT/AM	Inuvik's waterworks system
177	27519	Aug 25		Galloway	NWT/AM	Inadequate for firefighting purposes

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189	29378-78A	Sept. 22	YK	MacLeod	NWT/AM	Delivery grant, differences between cost of delivery and amount collected from householders subsidized by Territorial Government
	29398-400			Robertson	NWT/AM	Problem of inadequate water supply for Inuvik if population increases as predicted
189A	29568-71	Sept. 22		Bucholdt R. Worl	COPE COPE	Water requirements at Prudhoe Bay; unavailability of treated water to individual consumer
190	29618-20	Sept. 23		Fielden	NWT/AM	Cost of constructing water supply and sewage treatment facilities by municipality; water supply and sewage projects in Inuvik; reservoir to store treated water for fire-fighting; water filtration plant in Inuvik; plans to replace sewage lagoon in Inuvik
	29662-63			Fergusson	NWT/AM	Hay River volunteer fire brigade; fire protection on Vale Island
196	30816-23	Oct. 12		MacLeod	CARC	Northern Inland Waters Act, use and protection of water resources in Yukon and NWT; Arctic Waters Pollution Prevention Act; Yukon Placer Mining Act, use of water for placer mining; Yukon Quartz Mining Act, use of water for hard rock mining; roles of DOE and DOT in water management; sanitary standards for sewage disposal; water quality standards for drinking water; control of oil spills, use of pesticides; Ocean Dumping Control Act; creation of Water Boards, responsibilities
	30824-37			MacLeod		Water licenses issued by Water Board; procedure for granting water license; protection of rights of licensees; must comply with water quality standards; considering licenses in Yukon and NWT; authorization to use water without a license; pipeline construction water uses which require license
	30838-46			MacLeod		Exceptions from license for minor water uses; problems with authorization; methods to enforce environmental stipulations; co-ordinating Water Boards with regulating authority; improving water management
	30888-90			MacLeod		Enough water quality inspectors for pipeline construction; DOE fisheries officers
	30903-05			MacLeod		Problems of inflexible license conditions; water requirements for snow road construction
197	31117-18	Oct. 13		Norton	MVPI	Water availability on North Slope; impact of water taken from Sagavanirtoke River

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XIX	2220-21	Mar. 17	YK	Clark	CAGPL	Chick Lake ground water study
XXIII	2703	Mar. 21		Templeton	EPB	Removal of water from lakes
XXIX	3575-76	Apr. 14		Clark		Open water buoyancy
XXVII	4070	Apr. 18		Reid	CAGPL	Methanol residue into pond - biodegradable
XXXIII	4358	Apr. 21		Dau	CAGPL	Saddle weights in wet areas - muskeg
XXVIII	4841	May 14		Williams	CAGPL	Lakes, removal of snow from those that do not support fish
XXXIX	5029-33	May 15		Williams		Lakes - depth, thickness of ice-snow removal
	5110-14			Dau		Speckled bog - conventional construction method
42	5451-52	May 16		Hurd	CAGPL	North slope, do not plan to use float-equipped planes
57	6171-80	June 3		McT-Cowan	EPB	Use by birds - impact of spills, etc.
55	7608-24	Aug. 15	WH	Hughes	CARC	Thermokarst ponds and depressions; rivers and steep sides re: propensity for slides; influence on route assessment
	10726-29	Oct. 15	YK	Longlitz	MVPI	Use of available water sources to create snow; hauling from frozen lake surfaces

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78	11490-504	Oct. 23	NA	Roed	CARC	Great Slave, Great Bear Lakes; edge of the shield route; studies; other pipeline routes; engineering feasibility; North Sea Santa Fe operation; North Sea British Petroleum underwater pipe from Fordies field; Shallow crossing by CAGSL; Tyrrhenian Sea; Y pipeline route
	11544-48			Roed		Crossing of Great Bear, and Great Slave Lakes
	11564-B			Roed		Construction problems; crossing of large bodies of water
	11580-85			Roed		Underwater pipe laying techniques
	11639-65			Minning	CAGPL	Fish lakes, surface waterbodies, flooding drainage systems
79	11735	Nov. 3		Harlan	CAGPL	Icings and ground water activities on lakes and rivers
	11741			Harlan		Extent of icings
80	11920	Nov. 4		Hemstock	CAGPL	Impacts of harvesting snow from lakes
	11943-45			Williams	CAGPL	Recommendation for clearing around water areas
81	11962	Nov. 5		Anthony	CARC	Filing of material relied upon by Roed re pipelaying in deep water systems
	12097-12114			Harlan Williams		Water use for snow and ice roads, ditch flooding, camp use and testing
84	12529-32	Nov. 8		Environmental Panel	CAGPL	Prevention of runoff from excess spoil material into waterbodies
	12559-62			Anthony McCart	CAGPL	Water withdrawal sources, North Slope
	12572-79			Anthony McCart Hemstock Williams	CAGPL	Effects of campsite and compressor station location CAGPL guidelines, recommendations
	12586-609			Bayly McCart Williams	COPE/ITC	Komakuk Beach compressor station water sources, volumes, salination, flow, requirements
85	12620	Nov. 12		Bayly		Lakes, North Slope, water sources
	12692-93			Bayly Hemstock		Water withdrawal, camps, compressor stations
	12708-37			Scott Environmental Panel	MVPI	Impact of river crossings, Blackwater River typical; water withdrawal, Firth River
85-A	12741-90			Scott McCart		Water withdrawal, Mackenzie Valley, North Slope, siltation
86	12953-67	Nov. 13		Lawrence	Foothills	Camp water sources, requirements; studies
88	13246-47	Nov. 17		Lawrence	Foothills	Discharge of treated sewage
	13250-51			Lawrence		Sewage discharge into beaver and muskrat habitat
89	13405	Nov. 18		Gunn	CAGPL	Lakes, North Slope, bird studies
91	13782	Nov. 20		McCart	CAGPL	Consideration of number of lakes within one mile of pipeline, Prime Route versus Fairbanks
93	14093-95	Dec. 1		McCart		Mitigative measures; past developments having impacted a waterbody; protection; Chick Lake
	14132-41			Gunn		Use by waterfowl; disturbance from aircraft; withdrawal of water; loss of habitat
98	14889-96	Dec. 8		Gunn		Small lakes, ponds North Slope, critical areas for birds; siltation, water withdrawal
103	15728-30	Dec. 15		Stein	CARC	Water removal from lakes - biological and hydrological implications
	15816-21			Stein		Water utilization for construction re: fisheries considerations
104	15880-81	Dec. 16		Stein		Definition of significant fish populations
105	15977	Dec. 17		Steigenberger	CARC	Coastal Lagoons on North Yukon re: additional research requested
109	16646-47	Jan. 14		Bliss Wilimovsky	EPB EPB	Criteria for making aesthetic judgement of a stream; active dynamic elements
C-31	2989-90	Oct. 7	FR	Bosley	Citizen	Paulette Creek - mine effluent polluting lake
C-32	3072	Oct. 8	FR	Berger		Paulette Channel re changes in vegetation in vicinity of drainage
C-36	3513	Jan. 29	In	Mainland	GPC-D	Kugmallit Bay - route for transport of gas plant materials

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112	17080	Jan.20	In	Bayly Bliss	COPE/ITC GPC-D	Delta ponds receive sediment from upstream, Arctic island lakes don't
	17105-07			Bliss		Impact of toxic chemical spill on horsetail in Delta ponds
117	17759	Jan.26		Webb	GPC-D	Shallow Bay, ice conditions and whales
	17761			Webb		Fish studies in Harry Channel
120	18300	Jan.29		Pimlott	COPE	Gulf of Mexico, several wells being drilled at once
121	18424-A	Feb.10		Stein	COPE/ITC	Chukchi Sea, Bering Sea, Gulf of Alaska - American marine research program
	18427-28			Stein		Holmes Creek - probable fresh water fish spawning site; Mallik Bay, Kugmallit Bay - overwintering areas for marine, anadromous fish species
	18434			Stein		Mallik, Shallow Bays - pollutant contamination susceptibility, fish populations
	18438-39			Barry	COPE/ITC	Pacific, Anarctic Oceans - wintering grounds of some birds migrating to Beaufort Sea, Arctic Islands; Bering Straits - part of bird migration route into Beaufort Sea, Arctic Islands
	18441			Barry		Liverpool Bay - whitefronted geese population
	18447-50			Barry		Queen Maud Gulf - eider nesting grounds
	18463-65			Sergeant	COPE/ITC	North Atlantic - whalebone whale slide, European, American whaling practices; Chukchi Sea, Okhotsk Sea, Bering Strait - whalebone whale migration route
	18471-73			Sergeant		Liverpool Bay - white whale feeding site; Bering Sea, white whale wintering grounds; Mackenzie Bay, Kugmallit Bay - concentration of white whales in delta area, water temperatures
	18478-79			Sergeant	COPE/ITC	Mackenzie, Shallow, Shoalwater Bays - concentrations of white whale in delta area; Hudson Bay - white whale utilization
	18485-85-A			Sergeant		Mackenzie Bay, Shallow Bay - white whale penetration of Reindeer channel re position of proposed river crossings
122	18489-90	Feb.11		Sergeant	COPE/ITC	Mackenzie Bay - white whale behaviour related to water, ice conditions; Shallow Bay - whale utilization of Bay, Reindeer Channel
	18495			Sergeant		Liverpool Bay, Anderson River area - potential as a whale calving site
	18498-503			Smith	COPE/ITC	Amundsen Gulf, Coronation Gulf - Inuit community seal hunts; Prince Albert Sound - ringed seal underwater sound studies; Bering, Chuckchee Seas - pinniped studies
	18506			Smith		Ringed seal occupation of offshore ice lairs
	18510-12			Smith		Amundsen Gulf, Darnley Bay - seal productivity movement, dispersion
	18519-21			Sergeant		Shallow Bay, West Mackenzie Bay - impact of oil, gas activity on white whale calving ground; whale reserve proposal; Kugmallit Bay - Inuit whale hunting ground
	18524-26			Stirling	COPE/ITC	Amundsen Gulf - slides - polar bear movements, denning sites, feeding areas; ringed, bearded seal breeding habitats
	18536-37			Stirling		Amundsen Gulf - polar bear seasonal movements
	18540-44			Stirling		Amundsen Gulf - critical polar bear ice habitats; seal population fluctuation
	18548			Stirling	COPE/ITC	Western Hudson Bay - need for study - impact of man, industrial activity on polar bear behaviour, distribution
	18554-60			Stein	COPE/ITC	Shallow Bay, Holmes Creek, Moose and West Channels - fish utilization for migration spawning
	18567			Barry	COPE/ITC	Dolphon, Union straits - common eider colonies

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122	18570-74	Feb. 11	YK	Barry	COPE/ITC	Buzzard Bay - aquatic ecosystem recovery period after oil spill; McKinley Bay, impact of oil spill on birds; Tuktoyaktuk Harbour, GPC-D-I - dredging practices; Wood Bay - gravel transport to Dew Line site
	18580			Barry		Shallow Bay - susceptibility of birds to delta construction
	18583			Barry		Swan, Harry Channels, Dennis Lagoon - inclusion in Kendall Island bird sanctuary
	18590			Barry		McKinley Bay - wave heights during major storms
	18596			Evans Berger	CARC	Shallow Bay - effects of oil spillage during construction
	18603-05			Stein	COPE/ITC	Tuktoyaktuk Harbour - impact of dredging activities on fish resource
	18613-21			Sergeant	COPE/ITC	Liverpool Bay - whale feeding habits; Bering Straits - whale winter distribution; Kugmallit Bay - whale catch distribution; Shallow Bay, timing of whale movements into Bay, effects of construction activity (on whales); Mackenzie Bay - whale calving habits
	18655			Percy	COPE/ITC	Balaena Bay - under-ice oil spill
	18664			Grainger	COPE/ITC	Cook Inlet - American Beaufort Sea program
	18678-90			Sergeant	COPE/ITC	Mackenzie Bay - impact of disruption of white whale calving; Kugmallit Bay - annual white whale hunt, timing, impact of construction across Bay on whale population
	18709-12			Barry	COPE/ITC	Amundsen Gulf - seal movements
	18725			Barry		Shallow Bay - definition of Barry route proposal
124	18874-75	Feb.13		Shearer	COPE/ITC	Kugmallit, Shallow Bays - deposition of Mackenzie River sediment load in delta
	18883-84			Shearer		Mackenzie Bay - sources of sediment deposition
	18894			Shearer		East Channel - scouring frequency
	18907			Lewis	COPE/ITC	McKinley Bay - thermokarst lakes
	18935			Milne	COPE/ITC	Amundsen Gulf - formation of flaw-leads
	18978			Milne		Shallow, Kugmallit Bays - whale reliance on spring food supply prior to calving
	18984			Milne		Franklin Bay - importance of decapod crustacean nursery
125	19026-29	Feb.14		Lewis Shearer		Shallow Bay - nature of bottom sediments
	19037-53			Shearer Lewis		Ice scour, scour holes in Shallow Bay
	19098-99			Pettigrew	COPE/ITC	Kugmallit, Shallow Bays - fishing camps, whale calving; East Channel, Holmes creek - commercial fishery; Mackenzie, Mallik Bays - waterfowl nesting, feeding
	19131			Snow	COPE/ITC	Caribou Bar Creek experiment-impact of oil on benthic organisms
126	19211	Feb.16		Pettigrew	COPE/ITC	Balaena Bay - migration of oil up through brine channels in ice
	19224-27			Snow		Resolute Bay - sea spill - poor self-cleansing ability of shoreline
130	19746-50	Mar.16	YK	Williams	CAGPL	Studies of bottom profiles for cross-delta route; Barry route crosses more waterbodies that CAGPL's route
	19757			Hollingshead	CAGPL	Permafrost under and around waterbodies in Delta region
133	20130	Mar.23		Rowe	CAGPL	Impact on waterbodies important to fish, cross-Delta route
	20137			Rowe		Near Niglintgak supply line, use by fish

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WATERBODIES (OTHER THAN RIVERS)

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133	20152 20183	Mar. 23	YK	McCart McCart	CAGPL	Impact of cross-Delta route on Delta lakes Waterbodies traversed by various cross-Delta routes, impact on fish
134	20221-24 20307-12 20334-35	Mar. 24		Jakimchuk McCart Gunn	CAGPL CAGPL CAGPL	Harvesting snow from lakes in Delta, possible impact on muskrat Studies of fish habitat on cross-Delta route, possible realignments to minimize impact on fish Use of Delta waterbodies by waterfowl for moulting
135	20432 20476 20499	Mar. 25		Jakimchuk McCart McCart	CAGPL CAGPL	Would prefer cross-Delta route not to cross ponds Avoiding fish habitat, cross-Delta route to reduce impact; Barry route; comparison, cross- and circum-Delta routes Comparison, numbers along cross-Delta and Barry routes
136	20658-59 20662-63 20675-76 20679-83	Mar. 26		Sprague Sprague Sprague Sprague	MVPI	Sewage disposal into water Sewage disposal Revegetation fertilizer, drilling fluids getting into water Different siltation standards for different waterbody crossings
139	21208	Apr. 7		Nicol	COPE/ITC	Inland, Phillipine, Japan Seas, Bungo, Kii Straits - Mizushima oil spill
140	21356-57	Apr. 8		Allison	COPE/ITC	Balaena Bay - offshore oil spill experiments
C-41	3953-55	Mar. 3	HOL	Joss	Citizen	Whales in Minto Bay, Klengenberg Bay, Dolphin and Union Straits
C-46	4502-12	Mar. 11	PAUL	Hnatiuk	GPC-D-G	Testing of drill ships in Arctic Ocean, Gulf of Alaska, Beaufort Sea, ice conditions around Point Barrow, danger to ships
193	30101-02	Oct. 5	YK	Hernandez	EPB	Canyon Creek - siltation from borrow activities; Oscar Creek - construction and human activities near moose overwintering areas should be controlled

WHARVES AND STOCKPILE SITES

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XV	1662	Mar. 11	YK	Dau	CAGPL	Location
XVI	1868	Mar. 12		Dau		Land requirements at river crossings
XVII	1896	Mar. 13		Dau		Access
XIXA	2263-66	Mar. 17		Clark	CAGPL	Wharves, stability; location
XXX	3743	Apr. 15		Purcell	CAGPL	Mobile radio system, console
XXXII	4057-59	Apr. 18		Reid	CAGPL	External pipe coating for protection while stockpiled
XXXIII	4242-45 4263 4267-68 4325-26	Apr. 21		Dau Dau O'Rourke Dau	CAGPL	Summer '76 - under construction Contractors - move from stockpiles to construction site Five existing wharves Construction Plan
XXXIV	4422-26 4450-51 4490-91 4534-37	Apr. 22		Dau Williams Williams O'Rourke	CAGPL	Spread Camp C Stockpiled pipe, possible shortages Selection of the stockpile site at Komakuk Beach Wharf facilities, Arctic Red River, Fort Simpson
XXXV	4583	Apr. 23		Dau		Some double jointing at stockpile sites
XXXVII	4714 4787-89	May 13		O'Rourke O'Rourke		Employment opportunities, trucking services Stockpile approximately ten miles from railroad
XXXVIII	4857-60 4919-22	May 14		Dau Williams		Final decision on wharf sites Demobilization, movement to site for shipment out
XXXIX	5033-51 5056-58 5063-64	May 15		O'Rourke Dau Dau		Wharves - 5 existing, upgrading to be done Fort McPherson stockpile site Fuel storage tanks
40	5218-19			Hurd	CAGPL	ROW storage sites, warehousing
41	5336-37	May 20		Carlson	CAGPL	Storage of synthetic lubricants
42	5519-20	May 21		Scott Hurd	MVPI	Bridge units, replacement pipe, difficult rivers

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45	5943	May 24	YK	Bayly	COPE/ITC	Communities , staging areas
47	6187-88 6287-88	June 3		McT-Cowan Templeton	EPB EPB	Fuel storage, spills; recommendation Lack of environmental specifications re: fuel
48	6417-20	June 4		McT-Cowan		Sec 26 of Code: fuel storage and handling
C-4	184-186 215-217 227-228	May 28	Hay River	Williams Williams McKeekin	CAGPL Citizen	Hay River, major stockpile site Hay River - probable stockpile site Hay River site, use for barge construction
56	7866-69	Aug. 18	YK	Horte	CAGPL	Construction and up-grading; use and maintenance; community use
59	8351-52 8425-26	Aug. 21		Fawcett Gillespie	Foothills Foothills	Selection of location by Foothills; hydrographic maps; site location alignment sheets; environmental, geotechnical and engineering considerations Location and meeting with authorities, D.P.W.' Northern Transportation
60	8565-67	Aug. 22		Fawcett		Number to be designed; drilling
54	7481-82	Aug.14	WH	Weeden	CARC	Storage of equipment
55	7636	Aug.15		Morlan	CARC	Facilities re: construction and usage may destroy archaeological site
C-19	1854-57 1861-63	Aug. 6	FGH	Berger J. Louison	Citizen	Acreage required Application to sample soil for sites at Fort Good Hope
C-20	1870-72 1910-14 1932-35 2056	Aug. 7	FGH	Berger Rowe Carter M.Cotchilly	 CAGPL CAGPL Citizen	Maps requested of sites at Ft. Good Hope Description of drilling sites to prepare for wharves & stockpile at Ft. Good Hope Decision to make new application for land use permit at alternate location near Ft. Good Hope Extent of land use
C-21	2084	Aug. 9	NW	Rowe	CAGPL	Acreage in Norman Wells
67	10022-23 10014	Sept.23	YK	Mirosh Mirosh	Foothills	Upgrading of present wharves; construction; looping requirements Beaching of 2 barges at 8 locations; staging sites at Axe Point, Dory Point, Poplar Landing
68	10045-46 10092 10109	Sept.24		Hushion Mirosh Hushion	Foothills	Foothills & CAGPL requirements compared; permanent wharves; access roads Inclusion in total estimates of acreage & land use Long term requirements for wharves
72	10759-67	Oct. 15		Lewis	MVPI	Coast of the Tuk peninsula; potential harbour site and staging area in Tuktoyaktuk; DPW; erosion and siltation; dredging; Babbage Bight on the Yukon coast; Husky Lakes
76	11270	Oct.21		Weeden	CARC	Development of off shore oil; use of the uplands for storage, supply depots, docks, roads; effects on wilderness areas
78	11529 11581-85	Oct.23		Roed Roed	CARC	Edge of the shield route; availability of construction materials; road from Mackenzie River to staging area; need for two staging areas; stockpile site on the Mackenzie for material brought up during the summer; winter access road to the construction site Supply points, distance between supply points; construction spreads
79	11679	Nov. 3		Harlan	CAGPL	Acreage requirements
80	11902	Nov. 4		Williams	CAGPL	Gravel stockpiled at compressor station sites after pad built
81	12080 12090	Nov. 5		Minning Hemstock	CAGPL CAGPL	Only staging area stockpile site at Fort Norman Government might set aside areas from which material would be removed
82	12258-59	Nov. 6		Williams		Not aesthetically pleasing
83	12374-80 12400-01	Nov. 7		Scott Minning Minning	MVPI CAGPL	Stockpile on gravel pad of Thunder River compressor station; wharf gravel requirements Construction of wharf, Thunder River; stockpiling of materials and gravel
87	13090-92	Nov.14		Bayly Reeves	COPE/ITC Foothills	Potential stockpile sites often good campsites

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90	13606-07 13624	Nov. 19	YK	Dabbs Dabbs	CAGPL	Stockpiling methanol, protection against spills Compressor stations as stockpile sites for revegetation seed, fertilizer
93	14086-88 14152-60	Dec. 1		Hemstock Gunn	CAGPL CAGPL	Location, spills re: impact on fishing sites, flexibility in location Simpson Cove, Camden Bay; site specific as to wharf selection; alternative to Demarcation Bay, site avoidance of Ptarmigan Bay, Escape Reef
94	14205-11 14316-17			Gunn McCart Jakimchuk	CAGPL CAGPL	Staging areas near coastal lagoons; number of sites; Demarcation Bay; fish Pre-construction activities
96	14618-28	Dec. 4		Veale Jakimchuk Marshall	CYI CAGPL	Stockpile locations along the Interior route, transport via the Dempster; Mackenzie River barging system; staging sites on spreads B and C; transportation and caribou migration interaction
98	14367-68 14873-85 14975-76	Dec. 8		Scott Gunn Gunn Scott Jakimchuk		Development within critical bird areas Locations of stockpile sites, North Slope, impact on birds; oil storage at sites Caribou herd contacts with humans at staging sites
99	15109 15126-27	Dec. 9		Bouckhout Finney	Foothills Foothills	Relocations to minimize impact on mammals, Thunder River, Payne Creek Assessment of sites, importance to birds, possible relocations
100	15198-200 15314 15346-50	Dec. 10		Finney Hayden Bouckhout		Avoidance of significant bird areas May interfere with commercial, domestic fishing areas Thunder River, Payne Creek, relocations; fox dens
103	15763 15789-90 15813-14 15833-34	Dec. 15		Steigenberger Millen Stein Marshall Stein	CARC CARC CARC CAGPL	Fish Creek re: fish habitat considerations Sittings, environmental protection guidelines 300-foot guideline re: separation of stockpiles from river Access roads from staging sites on East of Franklins Corridor - potential environment impact
104	15875 15965	Dec. 16		Steigenberger Bayly Millen		Recommendations to the Inquiry Location re: river mouths; contingency plans consideration
105	15992-96 16122-26	Dec. 17		Stein Ryder		Long-term operations, use of and dismantlement, selection of sites to ensure protection of aquatic resources Distance moved away from mouths of rivers re: general guideline 1500 feet
109	16588	Jan. 14		McT-Cowan	EPB	Use of DEW line stations; environmentally disturbed areas
11-25	2481-83 2518 2533-36	Sept. 8	FS	Erion Hammond Workman Deller Workman Ellwood	NWT CC Citizen CAGPL Citizen Foothills	Harbour development at Snye as a major staging point for construction Staging site location, impact on Fort Simpson Wharf construction, stockpiling plans - Fort Simpson area
C-25	2702-04	Sept. 9		Lamothe	Citizen	Imperial Oil site at Simpson re: bulk plant, near water; danger to residential area re: fire
C-32	3034-35	Oct. 8	FR	Orbell	Citizen	Resolution re "jump-off village"; wharves used by barges, fishing boats, packers
114	17283 17293-94 17395 17425-30	Jan. 22	In	Mainland Mainland Mainland Faulkner	GPC-D-I	Taglu gas field, drilling resupply material stockpile site Taglu gas field, dock size, location, design, proposed site, facilities, staging area Taglu gas field, construction of docks, problems Niglintgak gas field, existing Farewell staging area will be used

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115	17547 17581-82	Jan. 23	IN	Stamberg Stamberg	GPC-D-G	Parsons Lake gas field, Hans Bay site, facilities Parsons Lake gas field alternative staging areas at Swimming Point, Lucas Point, Hans Bay
116	17657	Jan. 24		Rempel	GPC-D-I	Delta Environmental Protection Unit equipment available, back-up equipment at Hay River, Yellowknife and Norman Wells
121	18429	Feb. 10		Stein	COPE/ITC	Dredging for access to wharf, stockpile sites - impact on fish resource
124	18906 18920-21 19002-04	Feb. 13		Lewis Lewis Lewis	COPE/ITC	Babbage Bight - potential as a deep water port Physical problems confronting coastal facility construction Babbage Bight - feasibility as a deep water port
125	19065-69	Feb. 14		Lewis		Dredging of Tuktoyaktuk Harbour
126	19230-35	Feb. 16		Pettigrew	COPE/ITC	Design of dykes - containment of spills from storage tanks
130	19737-38 19773-76	Mar. 16	YK	Marshall Williams	CAGPL CAGPL	New staging area at Axe Point Axe Point, construction schedule; other wharves and stockpile sites; changed because of cross-delta route; granular material required
131	19873 19964	Mar. 17		Williams Williams		10 feet of gravel used for pads to keep above annual flood levels in Delta Gravel for Delta river crossings will be stockpiled at points of origin
132	20127-31	Mar. 18		Williams		New staging area at Axe Point; Hay River, Enterprise still to be used
136	20621 20711 20753-55	Mar. 26		Hemstock Peet Peet	CAGPL MVPI	DEW line sites proposed as off-loading sites for coastal route Shouldn't be near commercial domestic, sports fisheries Conflict with domestic fishing sites
140	21278-82	Apr. 8		Hollingworth	Foothills	Comparison - storage tanks to be used in Arctic, those used in Japan; oil freighter use of Tuktoyaktuk harbour
162	25057-65	July 13		Trusty	CAGPL	Wharf, several miles south of Inuvik; movement of camps, sites that were previously designed to be near Fort Good Hope, Norman Wells; sites re nearest community
C-68	7851-64 7864	July 16	FP	Wirth Erian Wirth	CAGPL Citizen	Staging site, Axe Point; movement of materials down the Mackenzie River; amount of material to be moved through Axe Point, facilities at the site; temporary nature of most of the facilities; possible establishment of a community Axe Point facilities, possible take over by NTCL after completion of construction; suggested use of Hay River, Fort Simpson as staging areas instead of Axe Point, problems with establishing facilities in these communities
C-76	8352-54	Aug. 25	DET	Chief Charlo Burrell Steeves	Citizen Foothills CAGPL	Question re storing pipe in Delta, denied
178	27602-03	Aug 26	YK	Merrett	MVPI	Volume of materials moved each year declines as construction period lengthened
191	29799-800 29837-38 29860-64	Sept. 24		Hagglund Hawryszko Hagglund Hawryszko	MVPI MVPI	Most stockpile points will be supplied by barge; Hay River and Axe Point, major staging sites; transportation aspects of Axe Point studied Axe Point, depriving benefits to Fort Simpson and Hay River; on going role of Axe Point, long-range plans Axe Point, leases by NTCL; cheaper to move through Axe Point than Hay River; control of road access to Axe Point; economic advantages of Axe Point

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193	30091-92	Oct. 5	YK	Hernandez	EPB	Fuel storage areas should be set back 500 feet from water, dyked impervious material to contain 125% of total tank capacity
	30101			Hernandez		Oil spill concerns - stockpile sites near Norman Wells, Fort Norman
	30106			Hernandez		Recommendation on fuel storage repeated
	30205			Templeton	EPB	Siting of fuel depots, unloading facilities
194	30320-23	Oct. 6		Doyle	EPB	Time required - Agency review of wharf sites
195	30458-58A	Oct. 7		Mirosh	Foothills	Reasoning behind siting of camps at stockpile sites
197	31120	Oct. 13		Norton	MVPI	Effect of ancillary activities on environment, surveillance
202	32005-06	Nov. 17		Sigler	AM	Opposition to the building of facilities at Axe Point

WILDERNESS CONCEPT

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99	15052-90	Dec. 9	YK	Environmental panel	CAGPL	Wilderness values of specific areas of route; coastal, interior routes, North Slope; maintenance of wilderness; parks locations; Arctic Wildlife Range; aesthetics
106	16181	Dec. 18		Lent	CARC	Porcupine caribou re: opportunity to maintain migratory group in wilderness setting; Arctic National Wildlife Range re: wilderness designation by U.S. Congress
	16225-26			Calef	CARC	Re: Arctic Wildlife Range; protection to caribou calving grounds; exempt from human technological or industrial activity
	16247-59			Lent		Arctic Wildlife Range re: legal status; process re: legal wilderness; DEW line sites; Wilderness Act; recreation
108	16564	Jan. 13		Craik	EPB	Wildlife Range; preserve in areas such as the Rat Pass, wild rivers; unique areas
	16570-75			Templeton Berger McT-Cowan	EPB EPB	National Parks; extractive and commercial activities and regulations
109	16648-61	Jan. 14		McT-Cowan Berger Bliss	EPB	Preservation of environments; attitudes to the land; wildlife ranges and wilderness areas; guidelines; sensitive or unique environmental areas; exchange of areas; IBP sites
	16670-74			Templeton		Unique features; recreation areas; stream crossings - special areas, special recommendations; wilderness values
	16714-17			Berger McT-Cowan		Quantification of wildlife, living resource
110	16772-76	Jan. 15		Lent		Caribou-wilderness species; U.S. definition of wilderness
111	16930	Jan. 16		Calef		Advantages of Interior Route in avoidance of wilderness
203	32068-70	Nov. 18		Anthony	CARC	Uniqueness of Arctic National Wildlife Range, protected as wilderness area, exempt from industrial activity; Arctic International Wildlife Range Society, Canadian United States Environmental Council, The Sierra Club, Wilderness Society say no to pipeline; loss of wilderness status if pipeline
	32108-09			Anthony		Importance of concept in land use planning

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XV	1633,37-40	Mar.11	YK	Williams	CAGPL	Of Northern Engineering Services Company Limited
	1633,42-47			Mollard	CAGPL	Of J.D. Mollard and Associates Limited
	1633,40-42			Watson	CAGPL	Of Northern Engineering Services Company Limited
	1634,-37			Dau	CAGPL	Northern Engineering Services Company Limited

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XIX	2129-30	Mar. 14	YK	Williams	CAGPL	Of Northwest Hydraulic Consultants Limited, & T. Blench	
	2131, 2153-56			Cooper	CAGPL		
	2131, 2141-43			Hollingshead	CAGPL		
	2131, 2145-48			Slusarchuk	CAGPL		
	2131, 2156-67			Hardy	CAGPL		
	2131, 2136-41			Clark	CAGPL		
	2131, 2148-53			Morgenstern	CAGPL		
XXIX	2131, 2143-45	Apr. 14		McRoberts	CAGPL	Of Northern Engineering Services Company Limited	
	3637-45			Purcell	CAGPL	Project co-ordinator, NES	
	3657-58			Reid	CAGPL	NES - Supervisor of Pipeline Mechanical Design	
	3658-61			Price	CAGPL	NES - Supervisor of Mechanical Stress Analysis	
	3661-62			McMullen	CAGPL	NES - Supervisory Controls	
	3662-64			Rathje	CAGPL	NES - Corrosion related tasks	
	4226-31			O'Rourke	CAGPL	CNR-Co-ordinator - pipeline logistics	
XXXIII	4231	Apr. 21		Dau		NES - Construction plan	
	5106-07			Harlan	CAGPL	Resume submitted	
XXXIX	5180-90	May 15		Hurd	CAGPL	Director of Planning and Special Studies	
	5180-90			Fielder	CAGPL	Manager, Operations and Maintenance	
	5180-90			Carlson	CAGPL	Director of Operations and Maintenance	
42	5529-70	May 21		Genest	CAGPL	Horte, President of CAGPL	
46	5996-6025	June 2		Goudge	MVPI	EPB Panel	
56	7889-92	Aug. 18		Blair	Foothills	Blair, President of Foothills Gas	
59	8332-34	Aug. 21		Mirosh	Foothills	Manager of Engineering for Foothills Pipelines	
	8341-42			Fawcett	Foothills	Supervisor of surveying for Foothills Pipelines	
	8354-56			Bouckhout	Foothills	Supervisor of Environmental Affairs for Foothills Pipelines	
	8359-61			Drew	Foothills	Geological associate of Sproule Associates Ltd.	
51	8375-78	Aug. 11	WH	Gillespie	Foothills	of Klohn Leonoff Consultants Ltd.	
	6764			Marshall	CAGPL	Dau, President and chief executive officer of Northern Engineering Services Company Ltd.	
53	6765	Aug. 13		Marshall		O'Rourke - Manager of industrial development for CNR, Mountain Region	
	6765-66			Marshall		Williams, William Brothers Canada Ltd.	
	6766-69			Hemstock	CAGPL	Imperial Oil Company	
	6770-71			Clark	CAGPL	Supervisor of geotechnical and environmental studies for Northern Engineering Services Co. Ltd.	
	6771-75			Banfield	CAGPL	Professor of Environmental Studies, Director of the Institute of Urban and Environmental Studies at Brock University, St. Catherines, Ontario	
	6823-25			Marshall		Trusty - President of Wayne B. Trusty Assocs. Ltd.	
	7176			Jacquot	CYI	Routing	
54	7262-63	Aug. 14		Joe	CYI	Alternate routes	
	7263-65			Lepnard	CARC		
	7265-67			Collins	CARC		
	7352-56			Geist	CARC		Mammals, environment
	7449-53			Weeden	CARC		Consultant for the joint Federal State Land Use Planning Commission
55	7453-55	Aug. 14		Parker	CARC	Commissioner for Highways for the State of Alaska	
	7515-7555			Parker		Evidence-in-chief	
	7592-95			Hughes	CARC	Research scientist in the terrain sciences division of the Geological Survey of Canada	
7625-26	Morlan	CARC	Yukon archaeologist with the National Museum of Man in Ottawa				

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61	8631-32 8643-44	Sept.15	YK	Lazerte	Foothills	Supervisor of Station Design at Foothills
				Hensch	Foothills	Supervisor of Facilities Planning for Alberta Gas Trunk Line Company Ltd.
61-A	8709-12 8718-20 8727-29			Bauer	Foothills	Supervisor of Construction and Planning for Foothills
				Walker	Foothills	President of Canuck Engineering of Calgary, Alberta
				Glockner	Foothills	Consultant with Foothills Pipe Lines Ltd.
62	8894-96	Sept.16		Scrimmes	Foothills	Consultant to Foothills Pipe Lines Ltd.
63	8998-94	Sept.17		Beer	Foothills	Senior Engineer in the Engineering department of Foothills Pipe Lines Ltd.
	9114-15			Hushion	Foothills	Panel 8 - Metallurgy
	9121-23			Wetterberg	Foothills	Panel 8 - Metallurgy
	9132-33			Shelton	Foothills	Panel 8 - Metallurgy
	9145-46			Holtsbaum	Foothills	Panel 8 - Metallurgy
64	9275-77	Sept.18		Yip	Foothills	Geotechnical Panel 9 - Supervisor, Geothermal, Geotechnical & Hydrological evaluations
	9282-84			Davison	Foothills	Director, Klohn Leonoff Consultants
	9288-90			Clandage	Foothills	Executive Engineer, Klohn Leonoff
	9298-9300			Spafford	Foothills	Director of Engineering, Unies Ltd. (river crossing consultants to Foothills)
	9311-14			Hwang	Foothills	EBA Consultants - geothermal & frost heave studies
65	9614-15 9624	Sept.19		Kosten	Foothills	Construction
				Jarvis	Foothills	Consulting Engineer, Unies Ltd.
68	10038-39	Sept.24		Littledale	Foothills	Operations & Maintenance
69	10234-36	Sept.25		Williams	MVPI	Professor at Carleton University
	10376-80			Owen	MVPI	Geological Survey of Canada, physical scientist
70	10535-40	Sept.		Longlitz	MVPI	Head of Land Use Section, Water, Lands, Forest and Environment, in Yellowknife
	10564-66			Lewis	MVPI	Physical scientist with Geological Survey of Canada Terrain Sciences Division
73	10820-25	Oct.16		Genest Hoekstra	CAGPL CAGPL	Dr. Hoekstra, a senior geophysicist for Northern Engineering Services Company Ltd.
77	11344-46	Oct.22		Rutter	CARC	Associate Professor of Geology at the University of Alberta in Edmonton
	11447-52			Roed	CARC	President of Geoconsult Limited
78	11610-11	Oct.23		Minning	CAGPL	Senior staff geologist with Northern Engineering Services
79	11678-78A	Nov. 3		Dabbs	CAGPL	Vegetation
86	12849-53	Nov. 13		Vaartnou	Foothills	Consultant, revegetation
	12871-73			Lawrence	Foothills	Associated Engineering Services Ltd.
	12879-81			Taylor	Foothills	Lombard North
	12884-85			Reeves	Foothills	President, Lifeways of Canada Ltd.
88-A	13354-57	Nov.17		Gunn	CAGPL	President, L.G.L. Ltd.
99	15115-16	Dec. 9		Kondla	Foothills	Botanist, Lombard North Group Ltd.
	15117-19			Hayden	Foothills	Aquatic biologist, Lombard North Group Ltd.
	15123-25			Finney	Foothills	Avian biologist, Lombard North Group Ltd.
	15128-29			Whitney	Foothills	Mammologist, Lombard North Group Ltd.
101	15605-07A	Dec. 11		Peterson	CARC	President, Western Ecological Services Ltd.
	15407-08			Zoltai	CARC	DOE co-ordinator, E-S P, Mackenzie Valley
102	15612-15	Dec. 12		Novakowski	CARC	Co-ordinator of the Wildlife Management Branch, CWS
103	15713-20	Dec. 15		Stein	CARC	Fisheries and Marine Service, DOE
				Walker	CARC	Fisheries and Marine Service, DOE
				Steigenberger	CARC	Fish and Wildlife Branch, Government of B.C.
				Millen	CARC	Environmental Protection Service, DOE
105	16128-30	Dec. 17		Lent	CARC	Alaska Co-Operative Wildlife Research Unit
	16130-32			Calef	CARC	Fish and Wildlife Service of the NWT Government
110	16741-42	Jan. 15		Bergerud	CARC	Honorary associate professor at the University of Victoria

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111	16964-68	Jan. 16	YK	Davies	MVPI	Manager, Ecological Studies Division of James F. MacLaren Ltd.
112	17014	Jan. 20	In	Horsfield	GPC-D	Manager, Arctic Region, Imperial Oil Ltd.
113	17129-30	Jan. 21		Hobart	GPC-D	Professor, Dept. of Sociology, University of Alberta
114	17278-79	Jan. 22		Mainland	GPC-D-I	Manager, frontier planning, Imperial Oil Ltd.
	17279			Stewart	GPC-D-I	Reservoir engineering inspection head, Imperial Oil in Calgary
	17419-20			Faulkner	GPC-D-S	Division Project Superintendent, Production Department
	17420-21			Serra	GPC-D-S	Section Leader, Reservoir Engineering Projects Group
115	17530-31	Jan. 23		Scott	GPC-D-G	Manager of Delta project, Gulf Oil Canada
	17531-32			Good	GPC-D-G	Supervisor, reservoir engineering, Gulf Oil Canada
	17532-33			Stamberg	GPC-D-G	Co-ordinator, development engineering for Delta projects, Gulf Oil Canada
	17533-34			Guyn	GPC-D-G	Co-ordinator, gas utilization, Delta projects, Gulf Oil Canada
116	17641-42	Jan. 24		Wopnford	GPC-D-S	Chief, Environmental Affairs for Exploration and Production, Shell Canada
	17642-43			Webb	GPC-D	Environmental Consultant, F.F. Slaney and Company
	17643-44			Rempel	GPC-D-I	Frontier Planning Advisor, Imperial Oil Limited
	17644-45			Appleton	GPC-D-G	Co-ordinator Logistics Delta Project, Gulf Oil Canada
117	17821-23	Jan. 26		Sider Tod	GPC-D-G GPC-D-I	Co-ordinator of socio-economic affairs in the delta project, Calgary Operation co-ordinator for the Taglu Gas Plant project
118	17991	Jan. 27		Czaja	GPC-D-S	General Manager of Production Department of Shell Canada Limited
				Horsfield	GPC-D-I	Corporate Manager, Arctic Region, Imperial Oil Limited
				Motyka	GPC-D-G	Manager, Development, Exploration and Production Department, Gulf Oil Canada Limited
119	18103	Jan. 28		Shearer	COPE	Graduate work in marine geological field
	18141-43			Shaw	COPE	Chemist for Energy Resources Conservation Board
	18200-07			Pimlott	COPE	Resource worker
120	18310-12	Jan. 29		Martell	COPE	Research scientist, Canadian Wildlife Service, Sault Ste. Marie
121	18361-62	Feb. 10		Percy	COPE/ITC	Arctic Biological Station - marine physiology, biological oceanography.
	18362			Grainger	COPE/ITC	Acting Director of Arctic Biological Station
	18363-64			Barry	COPE/ITC	CWS - bird studies
	18364-65			Sergeant	COPE/ITC	Arctic Biological Station - whale studies
	18365-66			Smith	COPE/ITC	Arctic Biological Station - ring seal studies
122	18522-51	Feb. 11		Stirling	COPE/ITC	Canadian Wildlife Service - polar bear, seal studies
123	18731-52	Feb. 12		Yates	MVPI	Director of Northern Policy and Program Planning Branch, Northern Affairs Program, DIAND; Co-Chairman of Federal Territorial Regional Planning Committee for the Mackenzie Delta
	18732-52			Elkin	MVPI	Director of Department of Planning and Program Evaluations, Government of NWT; Co-Chairman of Federal Territorial Regional Planning Committee for the Mackenzie Delta
124	18871-72	Feb. 13		Milne	COPE/ITC	Head of Arctic Marine Group with DOE, project manager of Beaufort Sea
125	19084	Feb. 14		Snow	COPE/ITC	Head of Environmental Assessment Section of Water, Lands, Forest and Environment Northern Natural Resources and Environmental Branch, DIAND
	19085-86			Pettigrew	COPE/ITC	Environmental Protection Service of DOE
	19086-87			Logan	COPE/ITC	Head of Centre of Spill Technology, DOE
127	19388-89	Feb. 17		Monaghan	COPE	Environmental Co-ordinator, NWT Fish and Wildlife Service
	19446-47			Trudeau	COPE	District Manager, NWT Fisheries and Marine Service

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128	19589-92	Feb. 18	IN	Inglis	MVPI	Land Management biologist and acting head, Land Management Section, Water, Forest Lands, and Environment Division of DIAND
				Speller	MVPI	Environmental Assessment Section of DIAND
133	20125-26	Mar. 23	YK	Rowe	CAGPL	Environmental co-ordinator
135	20571A-73	Mar. 25		Sprague	MVPI	Associate professor, Dept. of Zoology, Guelph University
136	20689-90	Mar. 26		Peet	MVPI	Head, Fishery Management Division, Fish Resources Section of Fisheries and Marine Services, DOE
	20690-91			Hunt	MVPI	Fishery officer in charge, Western Sub District, Inuvik
137	20873-74	Apr. 5		Mossop	MVPI	Wildlife biologist, Game Branch Government, Yukon Territory, Whitehorse
	20874-76			Simmons	MVPI	Superintendent, Fish and Wildlife Service, Government of NWT, Yellowknife
	20876			Stephen	MVPI	Regional Director, Western Region, Canadian Wildlife Service
	20877			Norton	MVPI	Affiliate assistant professor of ecology, Institute of Arctic Biology, University of Alaska, Fairbanks
139	21179-80	Apr. 7		Heacock	MVPI	Inspector of civil aviation - Air Regulation Branch of Transport Canada
	21204-07			Nicol	COPE/ITC	Environmental emergencies technician in charge of operations room at Environmental Protection Service operations centre
140	21300-01	Apr. 8		Usher	COPE/ITC	Independent consultant for COPE/ITC, CARC
	21301-02			Allison	COPE/ITC	Biological advisor to COPE
	21302-03			Noble	COPE/ITC	COPE field work, social, resources consultant
	21303-04			Cournoyca	COPE/ITC	Land claims negotiator for ITC
142	21526-28	Apr. 13		Virtue	NORTRAN	Manager, Nortran program
	21528-29			Giroux	NORTRAN	Nortran program
	21529-31			Behn	NORTRAN	Counsellor, Nortran program
143	21747-75	Apr. 14		Manuel	NIB	President, National Indian Brotherhood
	21749-50			Fumoleau	NWT IB/MA	Priest in Yellowknife
	21750-53			Saunders	NWT IB/MA	Witness for NWT IB/MA
	21788-807			Cardinal	IAA	President of Indian Association of Alberta
143-A	21843-883			Russell	NWT IB/MA	Witness for NWT IB/MA
144	21967-999	Apr. 15		J.S.Saul	NWT IB/MA	Associate Professor, York University
	22000-02			Barnaby	NWT IB/MA	NWT Territorial Councillor
				Cheezie	NWT IB/MA	Chief of Fort Smith and Fitz Indian band
	22001			Kurszewski	NWT IB/MA	President, Fitz-Smith Metis Community
	22001-02			Bean	NWT IB/MA	Band development counsellor
145	22081-82	Apr. 26		Rolfe	NWT IB/MA	Evidence in chief
	22082-84			Brownstone	NWT IB/MA	Evidence in chief
	22084-85			Draimin	NWT IB/MA	Evidence in chief
	22087-88			Clarke	NWT IB/MA	Evidence in chief
	22088-89			Menez	NWT IB/MA	Evidence in chief
	22089-91			Smith	NWT IB/MA	Evidence in chief
146	22229-32	Apr. 27		Richardson	NWT IB/MA	Freelance writer, broadcaster and film maker
				McCullum	NWT IB/MA	Adjunct Professor of Journalism, University of Western Ontario
				Jones	NWT IB/MA	Band Administrator of Kitsegulka Band in B.C.
				Young	NWT IB/MA	Vice-chairman, Northern Flood Committee
	22324-48			Page	NWT IB/MA	Associate Professor, Department of History, Trent University

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147	22475-77	Apr.28	YK	Snowshoe	NWT IB/MA	Hunting and trapping experience
148	22627	Apr.29		Asch	NWT IB/MA	Anthropologist
	22627			Rushforth	NWT IB/MA	Anthropologist
149	22804-52	May3		Bell	NWT IB/MA	D.G. Simpson, Director of Education Research for the International Development Research Center
150	22853-56	May4		Bell		T.L. Hills, Professor of Geography, McGill University
151	23044-64	May5		Veale	CYI	W. Irving, Professor of Anthropology, University of Toronto
	23082-88			Veale		J. Cruikshank National Museum of Canada; Dr. McClellan, Professor of Anthropology, University of Wisconsin; Johns, negotiator for land claims, CYI; Jacquot, negotiator, CYI
	23163-77			Veale		Elijah Smith, Chairman of CYI; A. Lireck, legal advisor to CYI
152	23331-34	May6		Notti	CYI	President of Alask Native Foundation
153	23407-525	May7		Sharp	CYI	Impact study report on Ross River
154	23527-30	June 29		Bell		P. Puxley, Research consultant, NWT IB/MA M. Watkins, Economic consultant , NWT IB/MA
	23761-91			Bell		A. Forrest, Research Assistant, Ontario Institute for Studies and Education
155-A	23833-900	June 30		Jelliss	NWT IB/MA	Economic rents, development benefits to native people
159	24298-302	July 7		Steeves	CAGPL	D. Boorkman, Research Director, URSA
165	25500-02	July 19		Burrell	Foothills	Director of Operations, President of Corporate Development, Foothills' representative on Nortran Steering Committee
	25502-03			Ellwood	Foothills	Supervisor of socio-economic affairs
	25503-07			Jensen	Foothills	Independent socio-economic consultant
	25507-10			MacLeod	Foothills	Independent economist and management consultant
166	25773-78	July 20		Brody Beakhust	COPE/ITC COPE/ITC	Biographical information
169	26209-12	July 23		Bell	NWT IB/MA	J. T'Seleie, Director of Community Development, NWT IB/MA R. Ruttan, Amisk Biomangement Consultants Ltd. S. Stanley, Centre for Study of Man, Smithsonian Institute
170	26369-70	Aug 16		Deyell	Foothills	Senior vice-president, Alberta Gas Trunk Lines Company Limited
171	26576-79	Aug 17		Dixon	MVPI	Consultant, State of Alaska, Department of Community and Regional Affairs
172	26757-61	Aug 18		McDiarmid	Citizen (COPE/ITC)	Engaged in developing a new training program in community, municipal affairs, Boreal Institute, Northern Studies, University of Alberta.
	26821-25			Dittrich Kyllo	COPE/ITC COPE/ITC	COPE Community, recreational planner
	26969-77			Lainsbury Dusel Dalby	NWT/AM NWT/AM NWT/AM	Chief Planner for Stanley Associates Engineering Limited; Vice-President of Stanley Associates Engineering Limited; President of R.N. Dalby and Associates Limited
175	27220-21	Aug 23		Ashton	NWT/CC	Chartered accountant, Fraser Matthews and Company, Hay River
				Hinchey	NWT/CC	Accountant, Hinchey and Company, Yellowknife
176	27357-62	Aug 24		Button Robinson	COPE/ITC COPE/ITC	Counsellor in Secondary school, Inuvik University lecturer, Simon Fraser BC and Halifax
177	27484-85	Aug 25		Wood	NWT/AM	Director of the Research Institute of Northern Canada, editor of "Canada North Almanac"
	27509-12			Galloway Schaurte Purdy	NWT/AM	President of NWT Fire Chiefs and Firefighters Association; Chief Constable of the By-Law Enforcement Department; lawyer, city solicitor for Yellowknife, chairman of city of Yellowknife Law Enforcement Board

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178	27574-77	Aug 26	YK	Merrett Pritchard	MVPI MVPI	Founder of MPS Associates Limited, economic analysis; Formed MPS Associates Limited, research
	27665-69			Lowing Runge	MVPI MVPI	Manager of Programmes Division, Operation and Field Activities for NWT Housing Corporation; Manager of the Research Division of NWT Housing Corporation
180	27830-32	Sept 7		Hodson	MVPI	Executive Secretary, Pipeline Contractors Association
				St. Eloi	MVPI	of Canada, Vice President and Director, Canadian Affairs for the United Association of Pipefitters
				Dyck	MVPI	Union Business Manager, Local 92 of Labourers International Union
				Marriott	MVPI	President, McDace Limited; President, Pipeline Contractors Association of Canada
				Nessel	MVPI	International representative, International Union of Operating Engineers
				Whiteford	MVPI	Director of Construction and General Organizer, International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers
	27830-32			Hodson	MVPI	Executive Secretary, Pipeline Contractors Association of Canada
				St. Eloi	MVPI	Vice President and Director, Canadian Affairs for the United Association of Pipefitters Union
				Dyck	MVPI	Business Manager, Local 92 of Labourers International Union
				Marriot	MVPI	President, McDace Limited; President, Pipeline Contractors Association of Canada
				Nessel	MVPI	International representative, International Union of Operating Engineers
				Whiteford	MVPI	Director of Construction and General Organizer, International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers
181	28038-40	Sept. 8		McGambly LeClair	MVPI MVPI	Executive Secretary of the Advisory Board for Building Trades in Canada; President of the Alberta and NWT Building and Construction Trade Council
	28112-13			Mitchell Reimer Nousiainen	MVPI MVPI MVPI	National Director of the Oil, Chemical and Atomic Worker's International Union, Chairman of CLC; Member of CLC Energy Committee, member of Advisory Committee, Native Outreach Canada Manpower; Assistant Director of the Research Department of the C
	28182-83			McRae Breckenridge	MVPI MVPI	Executive Secretary of NWT area Council of the United Steelworkers of America, a Director of NWT Labour Coordinating Committee; executive director of the Canadian Union of Labour Employees
	28038-40			McCambly Le Clair	MVPI MVPI	Executive Secretary of the Advisory Board for Building Trades in Canada; President of the Alberta and NWT Building and Construction Trade Council
	28112-13			Mitchell Reimer Nousiainen	MVPI MVPI MVPI	National Director of the Oil, Chemical and Atomic Worker's International Union, Chairman of CLC Energy Committee, Vice-President of CLC; member of CLC Energy Committee, member of Advisory Committee, Native Outreach Canada Manpower; Assistant Director of the Research Department of the CLC
	28182-83			McRae Breckenridge	MVPI MVPI	Executive secretary of NWT area council of the United Steelworkers of America, a director of NWT Labour Coordinating Committee; a director of NWT Labour Coordinating Committee, executive director of the Canadian Union of Labour Employees
182	28235-38	Sept 9		Clayton	MHA/NWT	Professional Director and Executive Secretary, National Scientific and Planning Council
				McCombs	MHA/NWT	Regional Supervisor, Mental Health Services, Northern Region, Alaska Division of Mental Health
				Forth	MHA/NWT	Director of Northern Careers, Government of Canada Public Service Commission
	28362-64			Clarke	COPE/ITC	Central Mortgage and Housing Corporation
184	28419-26	Sept. 14		Atcheson Kehoe	COPE/ITC COPE/ITC	Consultant to Eastern Arctic, Dept of Health and Welfare, senior psychiatrist at the Forensic Out- Patients' Service of the Clarke Institute of Psychiatry Regional Psychologist of the Yukon Region of the Dept of Health and Welfare

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182	28235-38	Sept. 9	YK	Clayton	MHA/NWT	Professional Director and Executive Secretary, National Scientific and Planning Council
				McCombs	MHA/NWT	Regional Supervisor, Mental Health Services, Northern Region, Alaska Division of Mental Health
	28235-38			Forth	MHA/NWT	Director of Northern Careers, Government of Canada Public Service Commission
	28362-64			Clarke	COPE	Central Mortgage and Housing Corporation
184	28419-26	Sept. 14		Atcheson Kehoe	COPE/ITC COPE/ITC	Consultant to Eastern Arctic, Department of Health and Welfare, Senior psychiatrist at the Forensic Out-Patients Service of the Clarke Institute of Psychiatry; Regional Psychologist of the Yukon Region of the Department of Health and Welfare
185	28544-58	Sept. 15		Schaefer	COPE	Head; Northern Medical Research Unit, Charles Camshell Hospital, Edmonton
				Mayhall	COPE	Assistant Professor, Faculty of Denistry, Department of Medicine, University of Toronto
				Hildes	COPE	Professor, Department of Medicine, University of Manitoba, Director of Clinical Investigation Unit Winnipeg General Hospital
				Cass	COPE	Ophthalmologist, Fort Smith
186	28817-19	Sept. 16		Basham Braden	MVPI MVPI	Vice-president of Gemini North; in charge of project entitled "Trade Unions in Canada and the Northern Resident" employed by Government of NWT, Department of Economic Development and Tourism
	28875-81			Snowden Currie	COPE/ITC COPE/ITC	Consultant on rural development special advisor to Extension Service of Memorial University of Nwfoundland; resource development officer, Maritime Region, DIAND
187	28975	Sept. 17		Raddi	COPE	President of Committee for Original Peoples Entitlement
	28995-96			Bruce	COPE	Chief of Alcohol and Drug Programs for Territorial government
	29072-74			Falk	NWT IB/MA	Professor, Internation Law and Practice, Princeton University
188	29118	Sept. 21		Searle	MVPI	Speaker, Legislative Assembly of NWT
	29153-65			Buchholdt Neakok Mrs. R. Worl	COPE COPE COPE	Assistant to Mayor Hopson of North Slope Borough Special Assistant to Mayor Hopson; Researcher, political development of North Slope Inupiat;
				Mr. R. Worl Lincoln	COPE COPE	Director, North Slope Health Department Project Director, Alaska Native Commission on Alcoholism and Drug Abuse
189	29257-59	Sept. 22		Lafferty	NWT/AM	Member of NWT Legislative Assembly
				Nickerson	NWT/AM	Member of NWT Legislative Assembly for Yellowknife North
	29284-88			D. Hill	NWT/AM	Arctech Services, executive director of Arctic Technical Resouce Management Services
	29360-65			Smith MacLeod	NWT/AM NWT/AM	Head of Assessment of Taxation in Department of Local Government, NWT Government Chief of Municipal Affairs Division, Department of Local Government, NWT Government
				Robertson	NWT/AM	Mayor of Inuvik
	29428-32			Goulet Harris	NWT/AM NWT/AM	Chief, Recreation Division, Government of NWT Member of Fort Simpson Village Council
190	29574-76	Sept. 23		A.E. Ganske	NWT/AM	Chief of Town Planning and Land Division, Department of Local Government, NWT Government
	29592-98			Watsyk Bennett Roska Feilden	NWT/AM NWT/AM NWT/AM NWT/AM	Chairman of Fort Simpson Village Council Councillor on Inuvik Town Council Member of Council of Town of Inuvik Secretary to Inuvik Utilities Planning Committee
	29639-40			Taylor Fogg	NWT/AM NWT/AM	Hay River Town Council member Special Assistant to Mayor Stewart, Hay River
	29655-56			Fergusson	NWT/AM	Councillor Town of Hay River
	29699-700			Henne Robertson	NWT/AM NWT/AM	Mayor of Yellowknife Mayor of Inuvik

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191	29735-38	Sept.24	YK	Hagglund	MVPI	Administrator of Arctic Transportation Agency, Department of Transport
				Hawryszko	MVPI	Policy Advisor, Arctic Transportation Agency, Department of Transport
				Prefontaine	MVPI	Transportation analyst, Northern Program Planning Division DIAND
				LeBlanc	MVPI	Chief, Inland Shipping Division, Merchant Shipping Branch of Water Transport Committee of Canadian Transportation Commission
				Evans	MVPI	Policy Advisor, Arctic Transportation Agency, Department of Transport
192	29874-78	Oct.4		Baring-Gould	MVPI	Professor of Sociology, University of Alaska; Director of Valdez project
	29965-67			Bennett	MVPI	Research Associate of Valdez project
				Ritter	MVPI	Co-ordinator, Yukon Territory Native Languages project
				Krauss	MVPI	Linguistic professor, University of Alaska, director, Alaska Native Language Centre; chairman, Alaska Native Language program
193	30110	Oct.5		Doyle	EPB	General Manager of Interdisciplinary Systems Ltd.
194	30265-66	Oct. 6		Butters	AM	Member of NWT Legislative Assembly, editor of Inuvik newspaper
	30413-14			Wylie	MVPI	President of Beaufort Delta
				Lipsett	MVPI	Director of engineers, for Beaufort Sea
195	30450-51	Oct. 7		Byers	Foothills	Co-ordinator of environmental affairs
196	30766-69	Oct. 12		Skinnarland	CARC	President, Terminus Limited
	30814-15			MacLeod	CARC	Law Clerk, to Honourable Mr. Justice W.R. McIntyre, B.C. Court of Appeal
197	30980-82	Oct. 13		Bergasse	MVPI	Director, Department of Economic Development and Tourism, NWT government
	31078-79			Rogol	MVPI	Director of Public Interest Research Group
198	31155-56	Oct. 14		Forth	MVPI	Director, Northern Careers, Public Service Commission of Canada
				Gates	MVPI	Director, Manpower of Alberta, Department of Manpower and Immigration
				Carnew	MVPI	Chief, Continuing and Special Education, Department of Education, Government of NWT
				Witty	MVPI	Chief, Employment Division, Department of Economic Development, Government of NWT
				Sterling	MVPI	Chief, Training and Employment Liaison Division of Northern Affairs Program, DIAND
198A	31405-06	Oct. 14		Christie	MVPI	Alaska Federation of Natives
	31427-28			Nicholson	MVPI	Director of Training, Alaska Labour Training School
	31433-34			Schulz	MVPI	Pipeline Co-ordinator of training program, Alyeska Pipeline Services Company and Operating Engineers, Local 302
199	31497-500	Oct. 15		Zemansky	COPE	Instructor, Department of Civil Engineering, State of Oregon

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XVII	1998	Mar.13	YK	Dau	CAGPL	Pipeline failures and repairs
XVIII	2097-2101	Mar.14		Dau		Environmental concerns, route selection
				Scott	MVPI	
XXIV	2829-30	Apr.17		Lane	COPE/ITC	Blasting
XXV	3040-42	Apr.8		Cooper	CAGPL	North slope crossings - avulsions
	3048-49			Berger		Continuous permafrost
XXVI	3436-47	Apr.11				North slope, river flow in winter, permafrost below rivers
	3460			Scott	MVPI	River crossings, possible formation of new icings
	3483			Clark	CAGPL	North slope, culvert size
XXXIII	4326	Apr.21		Dau	CAGPL	Wharves and stockpile sites

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XXXIV	4397	Apr.22	YK	Veale	CYI	Winter, summer construction
XXXV	4558	Apr.23		Dau		Average annual precipitation
XXXVII	4737	May 13		Bayly	COPE/ITC	Weather conditions, North slope
	4761			Bayly		Caribou herds, pipeline construction
XXXVIII	4829-43	May 14		Williams	CAGPL	Snow harvesting, fencing
XXXIX	5178	May 15		Dau		Rate of construction per day
40	5249-51	May 16		Hurd	CAGPL	Scheduling equipment for repairs
41	5296-5307	May 20		Hurd		Movement of equipment, L.G.P. vehicles, sling-load helicopter
42	5451-52	May 21		Hurd		Do not plan to use float-equipped planes
	5564-66	May 21		Horte	CAGPL	Potential reserves, looping, timing
46	6076-77	June 2		Craik	EPB	EPB disturbance studies
	6116			Adam	EPB	Lack of snow problem for winter road construction
47	6160	June 3		Wilimovsky	EPB	Possible problem of gravel removal requirements
	6178-80			McT-Cowan	EPB	Migration route, moulting ground
	6190-93			McT-Cowan		Rich bird habitat
	6197-6227			McT-Cowan		Caribou calving ground
	6234			Templeton	EPB	Most severe impact, unique type of land form
52	6885-88	Aug.12	WH	Banfield	CAGPL	Impact of Prudhoe Bay lateral; roads
53	7090-7100	Aug.13		Williams	CAGPL	Potential development - Eagle Plain
				Hemstock	CAGPL	
	7270-83			Thompson	CARC	Development of Arctic National Wildlife Range in Yukon
53A	7356-75			Geist	CARC	Productivity; ecosystem
54	7407-48	Aug.14		Geist		Caribou grounds; North slope feeding grounds; impact on caribou from alternative corridors and routes
	7470-96			Weedon	CARC	Vegetation characteristics; permafrost areas, drainage, wildlife, caribou calving grounds, routing and location of mainline, interior route Prudhoe Bay Supply line
55	7595	Aug.15		Hughes	CARC	Physiographic region as illustrated by a map and described
	7626-45			Morland	CARC	Archaeological sites in the Yukon; southwestern and central Yukon; Old Crow Flats; unglaciated areas of the Yukon; pipeline routes, highways; area of past populations and movement
70	10572	Sept.26	YK	Lewis	MVPI	Yukon North Slope rivers; present day degradation; coastal retreat
72	10772-76	Oct.15		Lewis	MVPI	Rivers in the Yukon coast; Yukon North Slope; river characteristics; ice scour; bed degradation
79	11690-97	Nov. 3		Minning	CAGPL	Borrow source in slide shown
	11738			Harlan	CAGPL	Potential for icings
80	11902	Nov. 4		Williams	CAGPL	Removal of borrow from active flood plain along coastal route only
	11918			Hemstock	CAGPL	Use of snow roads on coast environmentally sound
	12098-12100			Harlan		On Arctic Coast, surface water not independent of ground water
	12107-14			McCart	CAGPL	Data records of springs on the North Slope - populations of fish in streams and rivers
	12114-33			McCart		Removal of gravel from river bars of braided streams
82	12143	Nov. 6		Dabbs	CAGPL	Specific timing of reseeding along North Slope
83	12443-65	Nov. 7		Scott	MVPI	North Slope rivers, gravel mining, seasonal levels, flow, flooding, active flood plains and channels, fish, Firth-Malcolm area
				Environmental Panel		
	12472-88			Scott		CAGPL's compliance with DOE guidelines, gravel mining in riverbeds; excavation depth; site plans; impact on fish eggs
				Environmental Panel		

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84	12533-56	Nov. 8	YK	Anthony Environmental Panel	CARC	Sub-riverbed water flow, frost bulb, culverts; gravel mining, active flood plain, water in pits; ice bridges; river crossings, siltation; upland gravel sources
	12559-63			Anthony McCart		Water withdrawal sources, effects
85	12619	Nov. 12		Bayly	COPE/ITC	Water supply, North Slope
	12673-75			Environmental Panel	CAGPL	Gravel removal, North Slope rivers
85A	12760			McCart	CAGPL	Water withdrawal, North Slope spring streams
	12766			Berger		Narrower than Alaska plain
86	12822-23	Nov. 13		Drew	Foothills	Terrain sensitivity
89	13415	Nov. 18		Gunn	CAGPL	Waterfowl disturbance tests, North Slope
	13424-30			Gunn		Birds, sensitive areas, noise levels, overflights
	13432-35			Berger Gunn		Preference for interior over coastal route; coastal route possible with care; bird activities, coast; overflights; future developments
	13482			Jakimchuk	CAGPL	Porcupine herd calving area, effects of pipeline
90	13632-34	Nov. 19		Dabbs	CAGPL	Aerial seeding, scheduling, disturbance to animals
92	13972-78	Nov. 21		Bayly McCart		North Slope rivers, easier access, potential over-fishing; determining fish populations; potential road there
	14000-01			McCart		Fish feeding areas in summer; over-wintering areas; Babbage Bight
94	14204-44	Dec. 2		Envir. Panel	CAGPL	North Slope, calving grounds; coastal route; staging areas for waterfowl
96	14670-704	Dec. 4		Jakimchuk		Coastal areas; area of caribou activity
97	14794-820	Dec. 5		Gunn Jakimchuk		Restricted access periods, coastal spits, barrier beaches, North Slope willow thickets; aircraft overflight restrictions
	14833			Gunn	CAGPL	Importance to birds; annual movements, snow geese, swans, golden plovers; critical bird areas, coast.
98	14870-15006	Dec. 8		Environmental panel	CAGPL	Impact on birds, avoidance of pollution, sea coast; borrow sites, compressor stations at DEW line sites; pond, lakes used by birds, siltation; gravel mining; noise experiments, compressors, aircraft; peregrine falcon impacts; revegetation; increased human access, recommendations; Porcupine caribou herd, interaction with pipeline; reproduction rates, depletion; range reduction; multiple development effects; work stoppage as caribou approach; pre-construction activities; construction restrictions when caribou present; game management programme
99	15072-75	Dec. 9		Gunn Scott Berger	MVPI	Preservation of Arctic coast wilderness area
101	15447-57	Dec. 11		Zoltai	CARC	E-S P studies, terrain, vegetation, permafrost; terrain information; problems, solutions in construction
	15462-72			Zoltai		Snow road making problems; potentially hazardous areas for damage to terrain; interior versus coastal route, terrain sensitivity
102	15665-66	Dec. 12		Novakowski	CARC	Impact on fox denning
103	15744-54	Dec. 15		Walker	CARC	Background information, water use re: overwintering fish, species composition and rehabilitation, commercial and domestic use
	15755			Walker		Fisheries and Marine Service studies re: pipeline impact on aquatic resource
	15802-840			Stein Marshall Millen	CARC CAGPL CARC	Beaufort Sea Program, overview report, highway construction-engineering aspects, monitoring impacts; gravel removal re: impact on fisheries; changing flow conditions re: winter crossings; 300-foot figure re: stockpile site separation from rivers; gravel removal; water utilization impacts; domestic fishery utilization of Big Fish River; methanol, hot water testing; impact of East of Franklins route

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104	15858-60 15879-975	Dec. 16	YK	Bayly Stein Steigenberger Walker Millen	COPE/ITC CARC CARC CARC	Re: capacity to make a potential impact assessment of an oil or gas pipeline Restocking potential; piscivorous species; Shallow Bay fish migration route; domestic and commercial fishery; fish studies required before pipeline construction; methanol disposal; on-site environmental protection authorities
105	15976-96 16002 16079-122 16132-52	Dec. 17		Steigenberger Walker Steigenberger Walker Lent	 CARC	Coastal Lagoons re: additional fisheries research Objectives for Fisheries Service program Effects of sedimentation on overwintering areas, isolated sources of water for fish re: groundwater; increase in domestic, sport and commercial fisheries, conflicts between; winter construction, recommendations re: gravel removal Arctic caribou re: biology; caribou calving grounds; wintering grounds
107	16309-11 16350-52 16360-64 16404-06	Jan. 12		Bliss Templeton Adam Adam Berger McT-Cowan Berger	EPB EPB EPB EPB EPB	EPB does not accept the corridor concept across the North Slope of the Yukon Availability of snow for road and fence construction on the North Slope Availability of snow on the North Slope-snow roads Calving area - North Slope - all along the coast, foothills; calving and construction interaction
108	16412 16421 16424-32 16558-59	Jan. 13		Berger McT-Cowan McT-Cowan Berger Bliss	 EPB	Calving of caribou, upper and/or lower slopes Absence of human activity in northern Yukon is why there is the Porcupine herd Calving area; insects, later emergence of mosquitoes; area of potential oil and gas discoveries Development along Yukon coast; not accept a multi-use corridor
109	16658 16663-65 16703-04	Jan. 14		McT-Cowan Templeton Templeton	 EPB	No trade off for the North Slope Route selection; areas of activity and disturbance; trade off areas re: wilderness areas Frequency of aircraft flights, timing; staging of snow geese
110	16831-35	Jan. 15		Bergerud Lent Berger	CARC CARC	Importance of North Slope and coastal plain to herd survival; other herds
111	16911-15 16925 16931-36 16955-56	Jan. 16		Calef Carter Bergerud Ryder Calef	CARC CAGPL MVPI	Porcupine herd migration, calving grounds Caribou movements, calving grounds Interaction, caribou and coastal route; avoidance of use; caribou avoiding insects Avoidance of construction on plain
114	17346	Jan.22	In	Bayly	GPC-D-I	Possible source for rip rap to make artificial offshore island
117	17791	Jan.26		Goudge	MVPI	Disturbance of snow geese in feeding areas on North Slopes
118	18088	Jan.27		Horsfield	GPC-D-I	Imperial holds permit to onshore Yukon, gas possibilities
121	18454	Feb.10		Barry	COPE/ITC	Importance as a fall staging area for birds
130	19749 19755	Mar.16	YK	Williams Hollingshead	CAGPL CAGPL	Using DEW line sites for compressor stations would mean crossing fans of North Slope Rivers As major physiographic division of cross-delta route
131	19937-39 19970	Mar.17		Gibbs Williams Berger	Foothills	Consideration of summer construction on North Slope due to harsh conditions Summer versus winter construction, Prudhoe Bay Supply Line
132	20044-46	Mar.18		Williams		Using DEW line sites as compressor stations means crossing North Slope river fans; problems

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133	20201	Mar.23	YK	Jakimchuk	CAGPL	Potential impact of hot oil pipeline break, spill on mammals; North Slope
C-38	3629-30	Feb.12	In	Berger		Pipeline construction and caribou, perma frost consideration
134	20251	Mar.24	YK	Gunn	CAGPL	Slides of geese during early snow, North Slope
	20351			Environmental panel	CAGPL	Comparative importance for wildlife, North Slope versus Delta
136	20612-18	Mar.26		Environmental panel		Impact on wildlife of North Slope route using DEW line sites as compressor stations
162	24958	July 13		Carlson	CAGPL	Steam ditching machine, repair of possible line break, North Slope
193	30216-18	Oct 5		Templeton	EPB	Energy corridor concept rejected
194	30362-68	Oct. 6		Hemstock	CAGPL	Historical development of transportation, environmental impact of oil, gas pipeline development
	30378-82			Hemstock		Construction of a highway across plain not recommended
	30394-97			Hemstock		Contingency plans - disruption of barge transport supply construction on Plain
195	30479-89	Oct. 7		Byers	Foothills	Gravel road construction
	30551-55			Byers		Position re: pipeline construction on Plain during summer
	30666-71			Berger Dau	CAGPL	Consequences of CAGPL failure to meet schedule deadline on Plain; contingency plans - employment of eighth spread on north slope
201	31740-62	Nov. 16		Marshall	CAGPL	Impact of pipeline construction on aesthetics, caribou, snow geese, raptors, fish
	31782-98			Marshall		Ability of men, machinery to work under conditions of extreme temperature, wind, artificial lighting; contingency plans; snow harvesting
203	32085-87	Nov. 18		Anthony	CARC	North of Porcupine River, environmentally unique; concerns about gas pipeline construction, will be part of transportation corridor

