

IMPERIAL OIL 1969 STRATIGRAPHIC PARTY
BRITISH AND BARN MOUNTAINS

by
G. M. Staples

TERRITORIES EXPLORATION DISTRICT
EDMONTON, ALBERTA

Department Project No.
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IMPERIAL OIL ENTERPRISES LTD.
PRODUCING DEPARTMENT - WESTERN REGION

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(IPRWT-3MG-70)

April 1970

PROPRIETARY

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ILLUSTRATION

Map showing Measured Sections and Work Area
-- Scale 1 inch to 8 miles

Following Text

AREA COVERED

An eight-man stratigraphic party spent two months, May 31 to July 28, doing field work in the British and Barn mountains and on the West Coastal Plain. Geological work was confined to rocks of post-Devonian age outcropping in the mountains and along stream cuts in the 8,000-square-mile area shown by Figure 1.

Two-man and three-man stratigraphic crews measured 43,080 feet of section. The party chief visited 88 locations.

ACCESSIBILITY

Pacific Western Airlines operates a regular airline service between Edmonton and Inuvik. Light aircraft can be chartered at Inuvik. In addition, Imperial Oil's Fairchild F-27 makes several trips a month to Inuvik with drilling department personnel and equipment. The Company Twin Otter is based in Inuvik and is equipped with floats after break-up. Aviation gas is available commercially at Inuvik.

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The objective of the 1969 stratigraphic party was to extend our stratigraphic control in the post-Devonian section exposed in the British and Barn mountains. This surface control can be integrated with our seismic coverage to properly evaluate land held by Imperial Oil on the West Coastal Plain and in the northern Mackenzie River Delta area.

WEATHER

The weather conditions were unpredictable and often were unfavorable for helicopter operations. A heavy snowfall May 31 left a blanket of snow in the mountains so that geological investigations could not begin until the second week of June. Fog rolling in from the ice-bound Beaufort Sea hampered morning helicopter operations so it was often necessary to take advantage of the 24-hour daylight during June and early July. A snow storm in late July left a cover of snow in the mountains, making it difficult to measure the final section.

Altogether, two weeks were lost due to snow and rainstorms. Morning fog resulted in a number of late starts, although the mountains were clear. Lakes were not clear of ice until late June and the ice on the Beaufort Sea lingered into July.

COMMUNICATIONS

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geological department. All Company aircraft carry radio equipment which takes advantage of these communication channels.

In 1969 an AC-powered Marconi CH-25 transceiver was used as base camp equipment and three more compact Nicad-battery-operated Marconi CP-24's were used on fly camps. Results were satisfactory with atmospheric conditions determining the regularity of communications with the expeditors in Inuvik.

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Reconnaissance work by Imperial Oil geologists was conducted in 1961 by B. Gallant and again in 1965 by D. C. Waylett.

Some reconnaissance work was done in the area by the Geological Survey under the direction of D. K. Norris in 1962. A paper was written by E. W. Mountjoy of the GSC (Paper 66-19) on the "Triassic Stratigraphy of Northern Yukon Territory."

STRATIGRAPHY

A total of 43,080 feet of stratigraphic section was measured during the 1969 field season. Of this total, 20,305 feet were covered. Strip logs of the 32 sections measured are enclosed in the pocket attached to this report. The locations of the sections are shown on Figure 1. The geographic coordinates are listed in the table following the text, as well as on the log headings.

A total of 88 stations were established in the area by the party chief as spot checks on lithology, while scouting for control sections.

Correlation between sections, and for purposes of field mapping, was done by following litho-stratigraphic units from the air, by recognizing similar lithologies and vertical successions across structural breaks or covered intervals, and by stratigraphic relationship to the Paleozoic unconformity.

Problems encountered with correlating the section include facies changes of the formations, complex folding within parts of the outcrop belt, lack of outcrop due to talus covered slopes, and the difficulty in separating and correlating repeated shale-siltstone-sandstone sequences with sparse megafossils.

NWT-69 STATION LOCATIONS

Station	Latitude	Longitude	Location	Map
NWT-69-101	65°10'	124°00'	F-72	Comp. Map 12
102	65°10'	124°15'	M-72	Comp. Map 12
103	65°30'	125°45'	K-29	Comp. Map 12
104	65°40'	128°15'	G-18	Comp. Map 17
105	64°50'	124°15'	L-40	Comp. Map 12
106	64°50'	124°30'	C-10	Comp. Map 12
107	64°50'	124°15'	K-31	Comp. Map 12
108	64°30'	124°00'	J-61	Comp. Map 12
109	64°20'	126°15'	O-68	Comp. Map 12
110	64°50'	126°45'	O-27	Comp. Map 12
111	65°00'	127°15'	F-10	Comp. Map 12
112	68°20'	131°30'	K-3	Comp. Map 24
113	68°40'	131°00'	N-22	Comp. Map 24
114	68°50'	131°00'	M-3	Comp. Map 24
115	69°00'	130°45'	I-47	Comp. Map 24
116	69°10'	130°45'	J-27	Comp. Map 24
117	68°40'	132°00'	K-11	Comp. Map 24
118	68°40'	133°30'	C-58	Comp. Map 24
119	68°40'	133°45'	E-5	Comp. Map 24
120	68°40'	134°00'	H-19	Comp. Map 24
121	69°00'	134°15'	I-41	Comp. Map 24
122	68°50'	134°15'	P-28	Comp. Map 24
123	68°50'	134°00'	J-55	Comp. Map 24
124	68°10'	133°15'	D-45	Comp. Map 24
125	68°10'	133°15'	D-34	Comp. Map 24
126	68°30'	133°00'	J-39	Comp. Map 24
127	68°40'	133°00'	L-33	Comp. Map 24
128	69°10'	138°00'	C-29	117D/W-SE
129	ALASKA			117B/E-NE
130	68°40'	140°00'	P-57	117B/E-NE
131	68°40'	140°30'	K-59	117B/E-NE
132	69°00'	140°45'	L-22	117B/E-NE
133	ALASKA			117B/E-NE
134	69°00'	140°45'	D-57	117B/E-NE
135	69°10'	138°00'	C-29	117D/W-SE
136	68°40'	139°00'	B-2	117A/W-NW
137	68°40'	139°15'	D-60	117A/W-NW
138	69°00'	139°15'	A-55	117A/W-NW
139	69°00'	139°30'	O-28	117A/W-NW
140	69°00'	139°15'	M-45	117A/W-NW
141	68°50'	139°45'	K-37	117A/W-NW
142	69°30'	139°45'	E-12	117D/W-SW
143	69°30'	140°00'	I-11	117C/E-SE
144	69°30'	140°00'	E-51	117C/E-SE
145	69°30'	140°00'	G-55	117C/E-SE
146	69°00'	139°15'	B-1	117A/W-NW
147	68°50'	138°00'	J-34	117A/W-NE
148	68°40'	139°15'	M-41	117A/E-NW

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Location</u>	<u>Map</u>
NWT-69-149	68°20'	137°15'	K-15	117A/E-SW
150	68°10'	137°30'	N-38	117A/E-SW
151	68°40'	136°45'	G-13	117A/E-NE
152	68°50'	137°00'	F-8	117A/E-NW
153	68°40'	138°00'	G-48	117A/W-NE
154	68°30'	138°00'	A-20	117A/W-SE
155	68°30'	138°00'	N-32	117A/W-SE
156	68°30'	138°15'	I-37	117A/W-SE
157	68°10'	137°30'	J-20	117A/E-SW
158	68°40'	138°30'	M-5	117A/W-NE
159	69°30'	140°00'	M-33	117C/E-SE
160	69°30'	140°15'	M-2	117C/E-SE
161	69°30'	140°00'	P-14	117C/E-SE
162	69°10'	138°45'	D-52	117D/W-SE
163	69°00'	138°45'	F-23	117A/W-NE
164	69°10'	138°30'	L-2	117D/W-SE
165	69°00'	138°15'	A-28	117A/W-NE
166	68°50'	137°45'	P-57	117A/E-NW
167	69°00'	137°30'	N-52	117A/E-NW
168	69°00'	137°45'	P-51	117A/E-NW
169	68°50'	137°30'	G-12	117A/W-NE
170	69°30'	138°15'	B-22	117A/W-SE
171	68°20'	138°00'	K-39	117A/W-SE
172	69°40'	140°30'	G-1	117C/E-SE
173	68°40'	136°45'	C-6	117A/E-NE
174	68°50'	136°30'	P-42	117A/E-NE
175	68°50'	136°45'	P-52	117A/E-NE
176	68°40'	137°15'	P-19	117A/E-NW
177	68°40'	138°00'	C-49	117A/W-NE
178	69°40'	139°00'	H-39	117D/W-SW
179	69°40'	139°00'	K-16	117D/W-SW
180	68°30'	137°45'	E-19	117A/E-SW
181	68°40'	137°45'	F-23	117A/E-NW
182	68°40'	137°30'	I-35	117A/E-NW
183	68°30'	137°30'	B-11	117A/E-SW
184	68°30'	137°30'	M-38	117A/E-SW
185	68°40'	140°00'	D-14	117C/E-SE
186	69°40'	140°15'	C-11	117C/E-SE
187	69°30'	140°15'	G-49	117C/E-SE
188	69°30'	140°00'	M-28	117C/E-SE

NWT-69 SECTION LOCATIONS

<u>Section</u>	<u>Name</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Location</u>	<u>Map</u>
NWT-69-1	Firth Lookout	69°00'	140°15'	P-26	117B/E-NE
2	Joe Creek - Alaska Border	ALASKA			117B/E-NE
3	Babbage Cache	68°50'	139°00'	F-41	117A/W-NW
4	Bear Creek	69°00'	139°30'	L-37	117A/W-NW
5	Blister Ridge	68°50'	139°00'	G-55	117A/W-NW
6	Canyon Creek	69°10'	139°30'	K-53	117D/W-SW
7	Buckland Lookout	69°00'	139°15'	M-45	117A/W-NW
8	Grizzly Crossing	68°40'	139°00'	N-35	117A/W-NW
9	Moxie	68°50'	139°45'	N-47	117A/W-NW
10	Windy Mesa	68°40'	139°00'	K-23	117A/W-NW
11	Joe Mountain	69°00'	140°45'	H-2	117B/E-NE
12	Caribou Ridge	68°50'	138°00'	O-23	117A/W-NE
13	Mt. Welcome	68°40'	138°15'	E-48	117A/W-NE
14	Topo Heights	68°50'	138°00'	I-42	117A/W-NE
15	Fanny Hill	68°30'	137°40'	F-33	117A/E-NW
16	Wolf Creek	69°10'	140°00'	I-53	117C/E-SE
17	Wood Mountain	68°40'	138°30'	F-27	117A/W-NE
18	Mount Fitton	68°30'	137°45'	H-59	117A/E-SW
19	Walk-Back	68°40'	137°15'	A-23	117A/E-NW
20	Bonnet Pass	68°20'	137°15'	I-53	117A/E-SW
21	Malcolm River	69°20'	140°00'	F-10	117C/E-SE
22	Sister Sedgwick	69°00'	139°00'	O-1	117A/W-NW
23	Trail River	69°00'	138°45'	A-18	117A/W-NE
24	Ladas Creek North	69°00'	138°00'	I-51	117A/W-NE
25	Ladas Creek	68°50'	138°00'	C-40	117A/W-NE
26	Cross Over Creek	68°50'	136°30'	H-12	117A/E-NE
27	Babbage River "A"	69°00'	138°30'	I-13	117A/W-NE
28	Eagle Rock	69°10'	138°30'	O-2	117D/W-SE
29	Eagle Ridge	69°00'	138°15'	D-58	117A/W-NE
30	Babbage R. North	69°00'	138°30'	H-25	117A/W-NE
31	Babbage River "B"	69°00'	138°30'	G-33	117A/W-NE
32	Little Sleepy Mountain	68°50'	138°30'	F-1	117A/W-NE

NWT-69 SECTION STATISTICS

<u>Number</u>	<u>Name</u>	<u>Feet Measured</u>	<u>Total Footage (includes covered)</u>
NWT-69-1	Firth Lookout	395	1,265
2	Joe Creek - Alaska Border	705	1,340
3	Babbage Cache	90	110
4	Bear Creek	660	2,420
5	Blister Ridge	1,070	2,740
6	Canyon Creek	275	925
7	Buckland Lookout	165	1,060
8	Grizzly Crossing	325	750
9	Moxie	290	830
10	Windy Mesa	900	3,950
11	Joe Mountain	3,300	4,100
12	Caribou Ridge	160	680
13	Mt. Welcome	330	330
14	Topo Heights	550	3,010
15	Fanny Hill	1,085	1,480
16	Wolf Creek	235	235
17	Wood Mountain	490	715
18	Mount Fitton	375	490
19	Walk-Back	380	860
20	Bonnet Pass	1,930	3,000
21	Malcolm River	530	980
22	Sister Sedgwick	400	1,020
23	Trail River	1,025	1,345
24	Ladas Creek North	245	245
25	Ladas Creek	350	490
26	Cross Over Creek	3,475	4,820
27	Babbage River "A"	1,120	1,240
28	Eagle Rock	155	155
29	Eagle Ridge	310	355
30	Babbage R. North	505	505
31	Babbage River "B"	65	65
32	Little Sleepy Mountain	885	1,570
TOTAL - 32 Sections Measured		22,775 feet (exposed)	43,080 feet (includes covered)

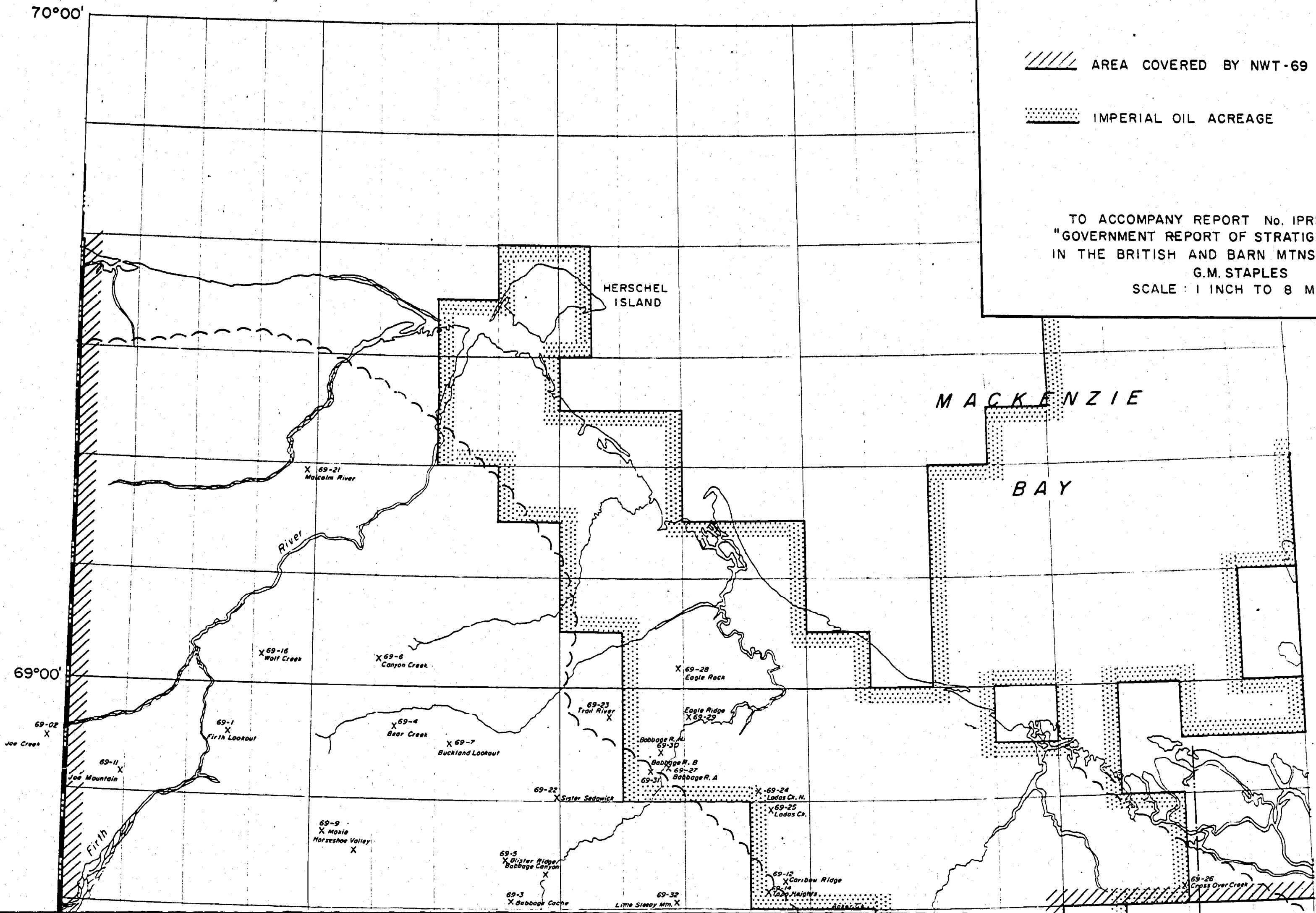
FIGURE 1

LOCATION MAP WEST COASTAL PLAIN

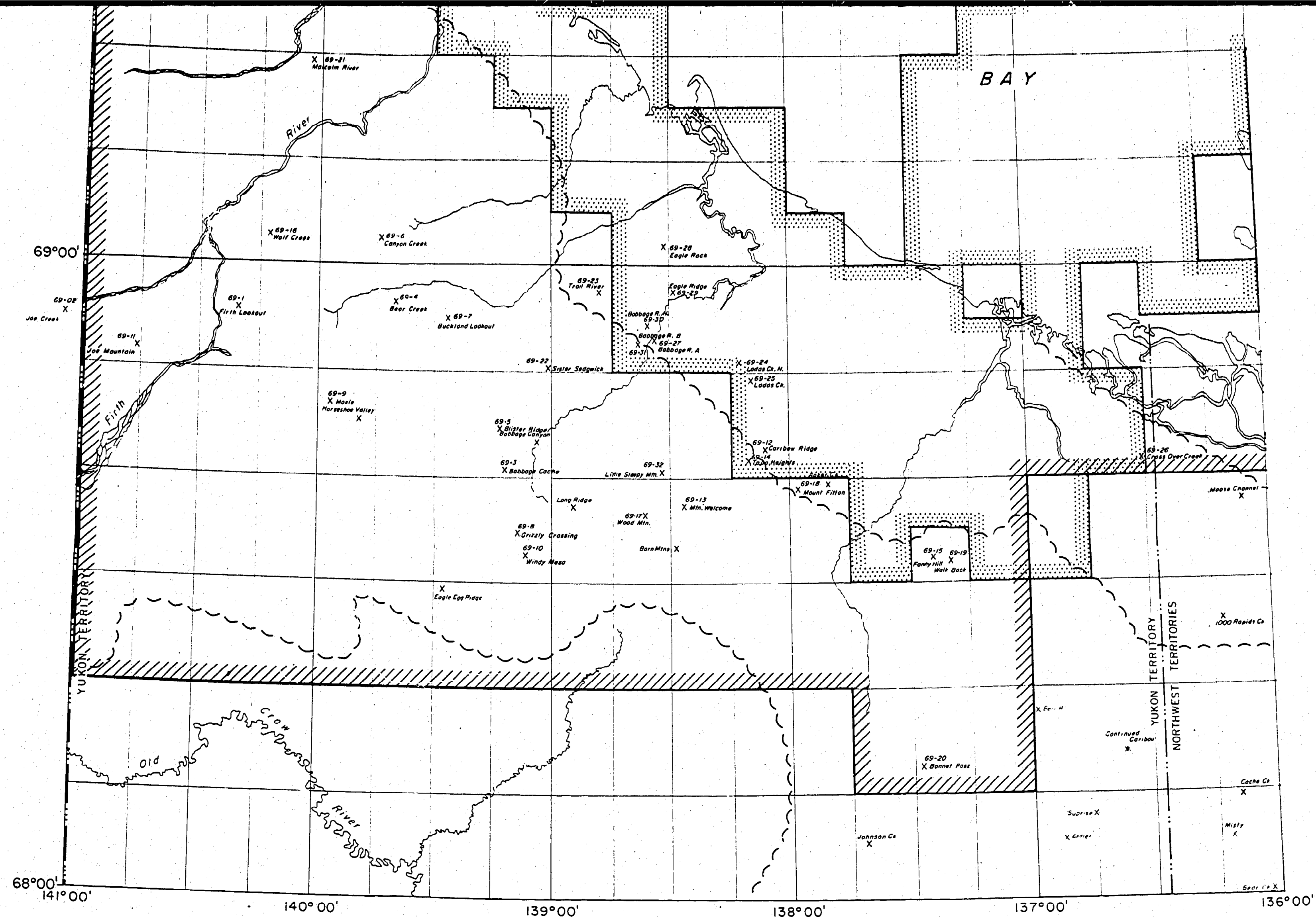
////// AREA COVERED BY NWT-69 SURFACE PARTY

..... IMPERIAL OIL ACREAGE

TO ACCOMPANY REPORT No. IPRNWT-3MG-70
"GOVERNMENT REPORT OF STRATIGRAPHIC PARTY
IN THE BRITISH AND BARN MTNS. DURING 1969"
G.M. STAPLES
SCALE: 1 INCH TO 8 MILES



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ILLUSTRATION

Map showing Measured Sections and Work Area
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AREA COVERED

An eight-man stratigraphic party spent two months, May 31 to July 28, doing field work in the British and Barn mountains and on the West Coastal Plain. Geological work was confined to rocks of post-Devonian age outcropping in the mountains and along stream cuts in the 8,000-square-mile area shown by Figure 1.

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165	69°00'	138°15'	A-28	117A/W-NE
166	68°50'	137°45'	P-57	117A/E-NW
167	69°00'	137°30'	N-52	117A/E-NW
168	69°00'	137°45'	P-51	117A/E-NW
169	68°50'	137°30'	G-12	117A/W-NE
170	69°30'	138°15'	B-22	117A/W-SE
171	68°20'	138°00'	K-39	117A/W-SE
172	69°40'	140°30'	G-1	117C/E-SE
173	68°40'	136°45'	C-6	117A/E-NE
174	68°50'	136°30'	P-42	117A/E-NE
175	68°50'	136°45'	P-52	117A/E-NE
176	68°40'	137°15'	P-19	117A/E-NW
177	68°40'	138°00'	C-49	117A/W-NE
178	69°40'	139°00'	H-39	117D/W-SW
179	69°40'	139°00'	K-16	117D/W-SW
180	68°30'	137°45'	E-19	117A/E-SW
181	68°40'	137°45'	F-23	117A/E-NW
182	68°40'	137°30'	I-35	117A/E-NW
183	68°30'	137°30'	B-11	117A/E-SW
184	68°30'	137°30'	H-38	117A/E-SW
185	68°40'	140°00'	D-14	117C/E-SE
186	69°40'	140°15'	C-11	117C/E-SE
187	69°30'	140°15'	G-49	117C/E-SE
188	69°30'	140°00'	M-28	117C/E-SE

NWT-69 SECTION LOCATIONS

<u>Section</u>	<u>Name</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Location</u>	<u>Map</u>
NWT-69-1	Firth Lookout	69°00'	140°15'	P-26	117B/E-NE
2	Joe Creek - Alaska Border	ALASKA			117B/E-NE
3	Babbage Cache	68°50'	139°00'	F-41	117A/W-NW
4	Bear Creek	69°00'	139°30'	L-37	117A/W-NW
5	Blister Ridge	68°50'	139°00'	G-55	117A/W-NW
6	Canyon Creek	69°10'	139°30'	K-53	117D/W-SW
7	Buckland Lookout	69°00'	139°15'	M-45	117A/W-NW
8	Grizzly Crossing	68°40'	139°00'	N-35	117A/W-NW
9	Moxie	68°50'	139°45'	N-47	117A/W-NW
10	Windy Mesa	68°40'	139°00'	K-23	117A/W-NW
11	Joe Mountain	69°00'	140°45'	H-2	117B/E-NE
12	Caribou Ridge	68°50'	138°00'	O-23	117A/W-NE
13	Mt. Welcome	68°40'	138°15'	E-48	117A/W-NE
14	Topo Heights	68°50'	138°00'	I-42	117A/W-NE
15	Fanny Hill	68°30'	137°40'	F-33	117A/E-NW
16	Wolf Creek	69°10'	140°00'	I-53	117C/E-SE
17	Wood Mountain	68°40'	138°30'	F-27	117A/W-NE
18	Mount Fitton	68°30'	137°45'	H-59	117A/E-SW
19	Walk-Back	68°40'	137°15'	A-23	117A/E-NW
20	Bonnet Pass	68°20'	137°15'	I-53	117A/E-SW
21	Malcolm River	69°20'	140°00'	F-10	117C/E-SE
22	Sister Sedgwick	69°00'	139°00'	O-1	117A/W-NW
23	Trail River	69°00'	138°45'	A-18	117A/W-NE
24	Ladas Creek North	69°00'	138°00'	I-51	117A/W-NE
25	Ladas Creek	68°50'	138°00'	C-40	117A/W-NE
26	Cross Over Creek	68°50'	136°30'	H-12	117A/E-NE
27	Babbage River "A"	69°00'	138°30'	I-13	117A/W-NE
28	Eagle Rock	69°10'	138°30'	O-2	117D/W-SE
29	Eagle Ridge	69°00'	138°15'	D-58	117A/W-NE
30	Babbage R. North	69°00'	138°30'	H-25	117A/W-NE
31	Babbage River "B"	69°00'	138°30'	G-33	117A/W-NE
32	Little Sleepy Mountain	68°50'	138°30'	F-1	117A/W-NE

NWT-69 SECTION STATISTICS

<u>Number</u>	<u>Name</u>	<u>Feet Measured</u>	<u>Total Footage (includes covered)</u>
NWT-69-1	Firth Lookout	395	1,265
2	Joe Creek - Alaska Border	705	1,340
3	Babbage Cache	90	110
4	Bear Creek	660	2,420
5	Blister Ridge	1,070	2,740
6	Canyon Creek	275	925
7	Buckland Lookout	165	1,060
8	Grizzly Crossing	325	750
9	Moxie	290	830
10	Windy Mesa	900	3,950
11	Joe Mountain	3,300	4,100
12	Caribou Ridge	160	680
13	Mt. Welcome	330	330
14	Topo Heights	550	3,010
15	Fanny Hill	1,085	1,480
16	Wolf Creek	235	235
17	Wood Mountain	490	715
18	Mount Filton	375	490
19	Walk-Back	380	860
20	Bonnet Pass	1,930	3,000
21	Malcolm River	530	980
22	Sister Sedgwick	400	1,020
23	Trail River	1,025	1,345
24	Ladas Creek North	245	245
25	Ladas Creek	350	490
26	Cross Over Creek	3,475	4,820
27	Babbage River "A"	1,120	1,240
28	Eagle Rock	155	155
29	Eagle Ridge	310	355
30	Babbage R. North	505	505
31	Babbage River "B"	65	65
32	Little Sleepy Mountain	885	1,570
TOTAL - 32 Sections Measured		22,775 feet (exposed)	43,080 feet (includes covered)

