

6640

part 1
of 2

ASSESSMENT REPORT
ROTARY DRILLING PROGRAM
PATRICIA AND MORAIG
JAN 1, JAN 2, JAN 3 CLAIMS
Greenwood Mining Division

MINERAL RESOURCES BRANCH ASSESSMENT REPORT NO. <u>6640</u> MAP NO. _____

Location

N.T.S. 82E/10W
Latitude 49 degrees 36 minutes N
Longitude 118 degrees 55 minutes W
24.4 miles NE of Beaverdell, B.C.
near Lassie Lake

February 16, 1978

G.H. McWilliams
J.E. Barclay

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MAPS

Fig. 1 Location and Access

Fig. 2 to 5 Location and Drill Holes

Geological Map of Patricia Moraig Jan 1, Jan 2,
Jan 3 Blizzard and Beverly Clims

*none
received.
FJG*

APPENDIX

I	Drilling Logs
II	Geochemical Assay Results
III	Summary of Expenditures
IV	Statement of Qualifications
V	Downhole radiometric logs - Rotary drills 77 R 1, 3, 4, 8 & 17 (14 reports)

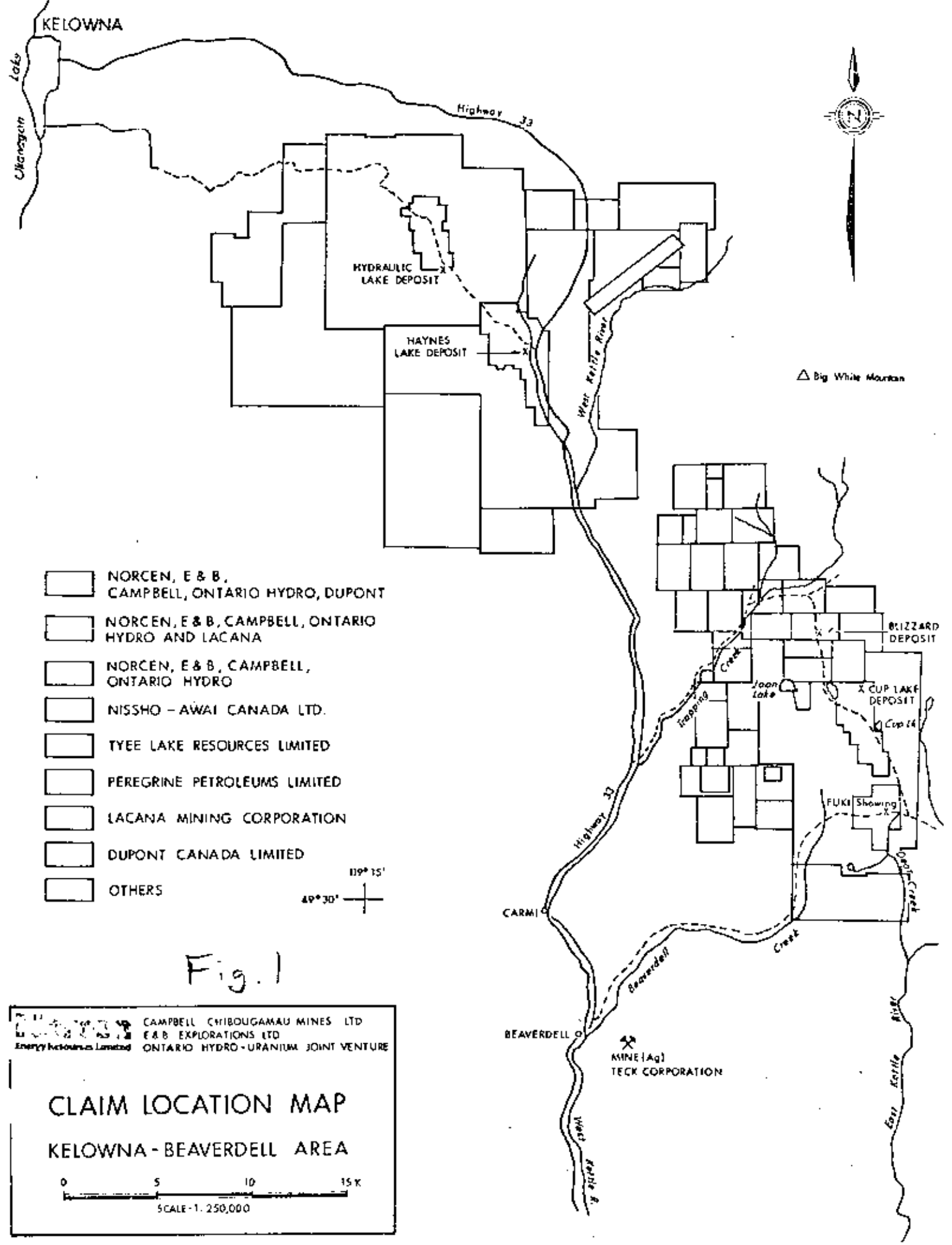


Fig. 1

CAMPBELL CHIBOUGAMAU MINES LTD
 E & B EXPLORATIONS LTD
 ONTARIO HYDRO - URANIUM JOINT VENTURE

CLAIM LOCATION MAP

KELOWNA - BEAVERDELL AREA

0 5 10 15 K

SCALE - 1:250,000

INTRODUCTION

The Patricia and Moraig claims which form part of the Blizzard Property (Patricia, Moraig, Beverly and Blizzard claims), were staked and recorded by Lacana Mining Corporation. Three additional claims Jan 1, Jan 2, Jan 3 were staked to cover a possible fraction which existed between the previous claims. The 3 Jan claims have been added to the PM Group which is described as follows:

<u>CLAIM NAME</u>	<u>DIMENSIONS</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>
Patricia	2N x 5W	10	234	24 Feb. 1975
Moraig	3N x 5W	15	233	24 Feb. 1975
Jan 1	1N x 1W	1	848	22 Aug. 1977
Jan 2	1N x 1W	1	849	22 Aug. 1977
Jan 3	1N x 1W	1	850	22 Aug. 1977

Location and Access

The claims are located approximately 49 Km SE of Kelowna, B.C. or about 24.5 Km NE of Beaverdell, B.C. The nearest topographic land mark is Lassie Lake which extends 60 metres into the southern edge of the claims. Elevations range from 1310 to 1400 Metres.

Access from Kelowna is southeasterly via highway 33 for 65 Km then by the Trapping Creek and Lassie Lake logging roads, both of which are marked by logging company signs. Location and Access is shown in fig. 1.

Brief History of Claims

The Patricia and Moraig claims were staked and recorded by Lacana Mining Corporation in February 1976. One years assessment was filed for by Lacana in February 1977. These claims were optioned by Norcen Energy Resources Limited. During 1977 it was discovered that the Patricia and Beverly claims were not adjacent and the Jan 1, Jan 2 and Jan 3 claims were staked by Norcen to cover this fraction. The following drill report includes part of the work done on this claim group during the past year.

SUMMARY

The rotary drilling program was designed to test areas covered by overburden in order to gain a better understanding of the geology of the area and to locate any uraniferous sediments not covered by the basalt cap. A total of 14 holes, totalling 1231 feet, 375.5 metres, 6½ inches in diameter were drilled on this claim group. The drilling was done with a Chicago Pneumatic T-650 Reich drill, contracted from Plateau Exploration and Water Wells Limited from Grande Forks, B.C.

All drill holes except hole number 2 were tested with a down hole scintillation counter measuring total natural gamma counts with a 3" x 3/4" NaI crystal detector. This work was carried out by Data Probe Logging Limited of Calgary, Alberta.

Mineralization was detected in several of the holes located on the southern edge of the basalt cap. The estimated grade based on down hole probing of these intersections is shown on the drill logs in the appendix of this report. No conclusions can be drawn on the extent of the mineralization due to the reconnaissance nature of the drilling program.

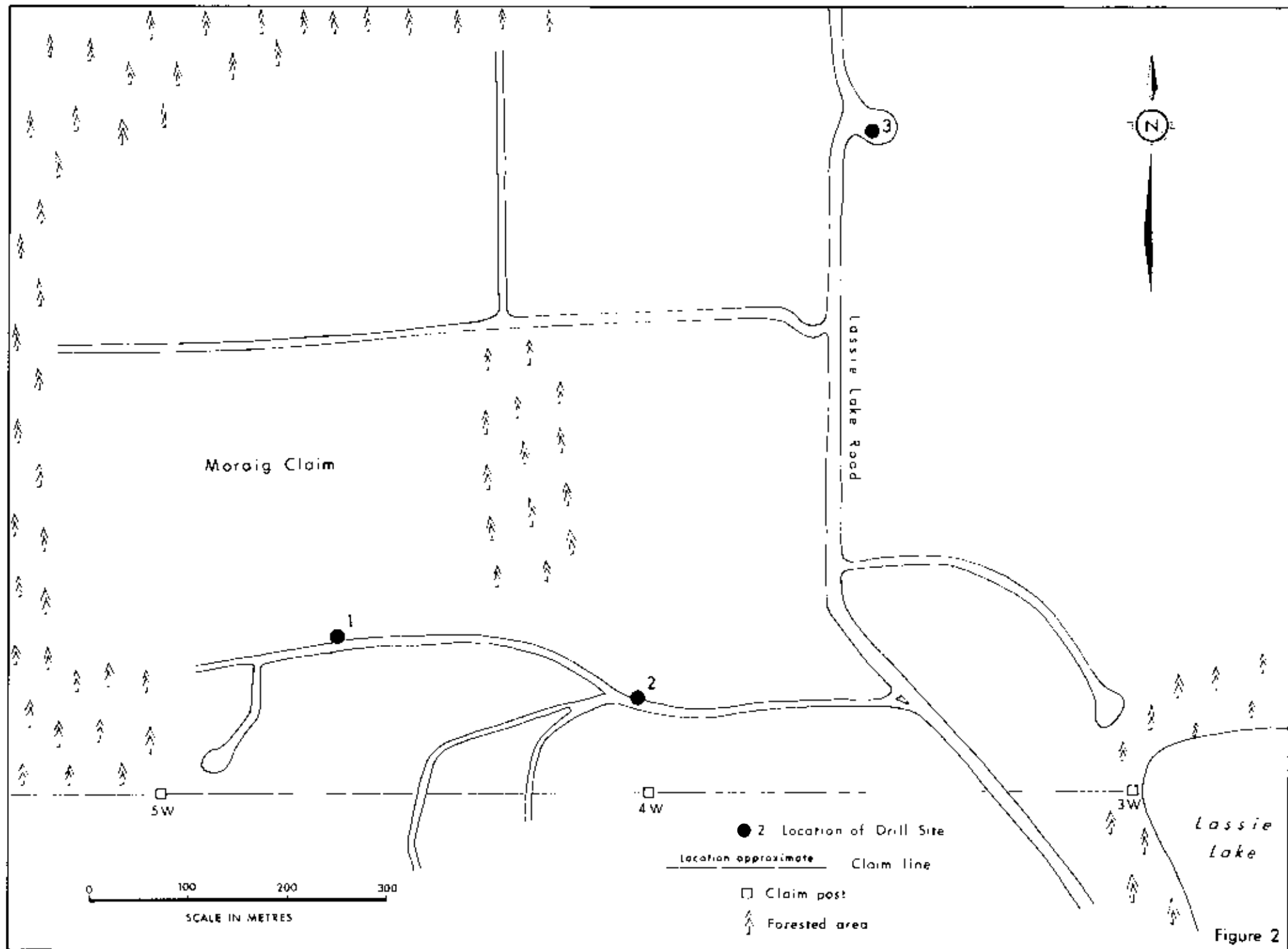


Figure 2

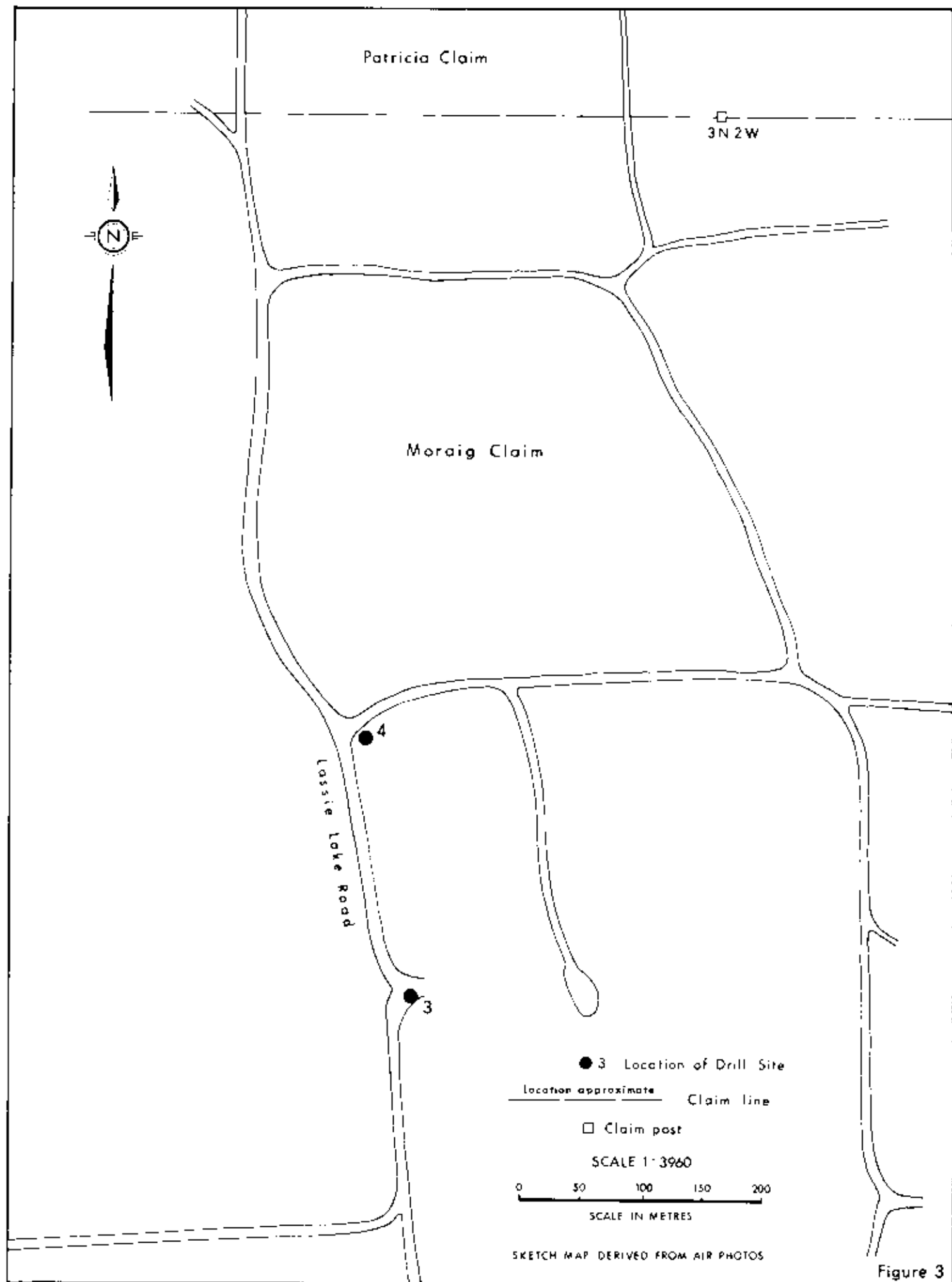
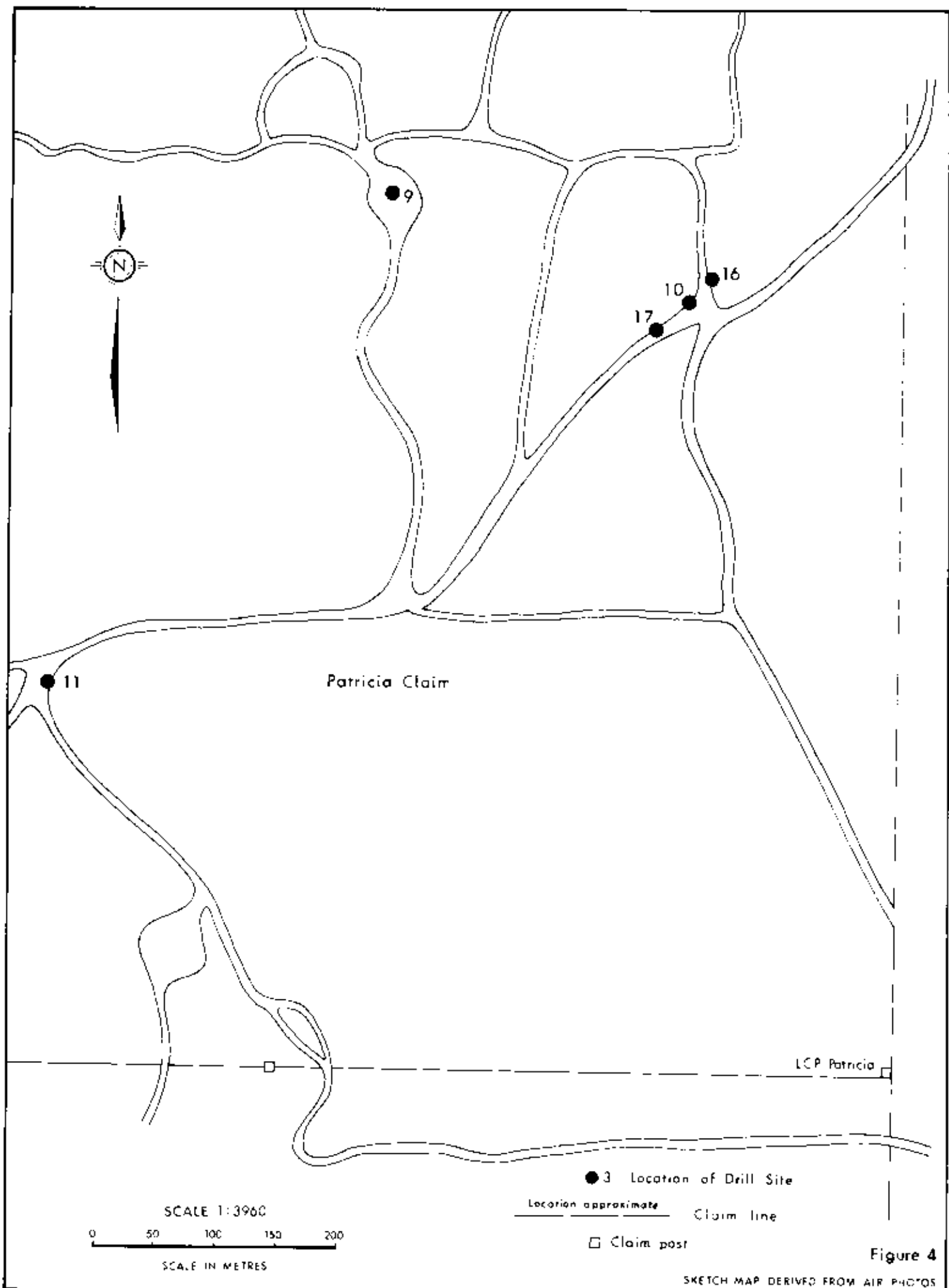
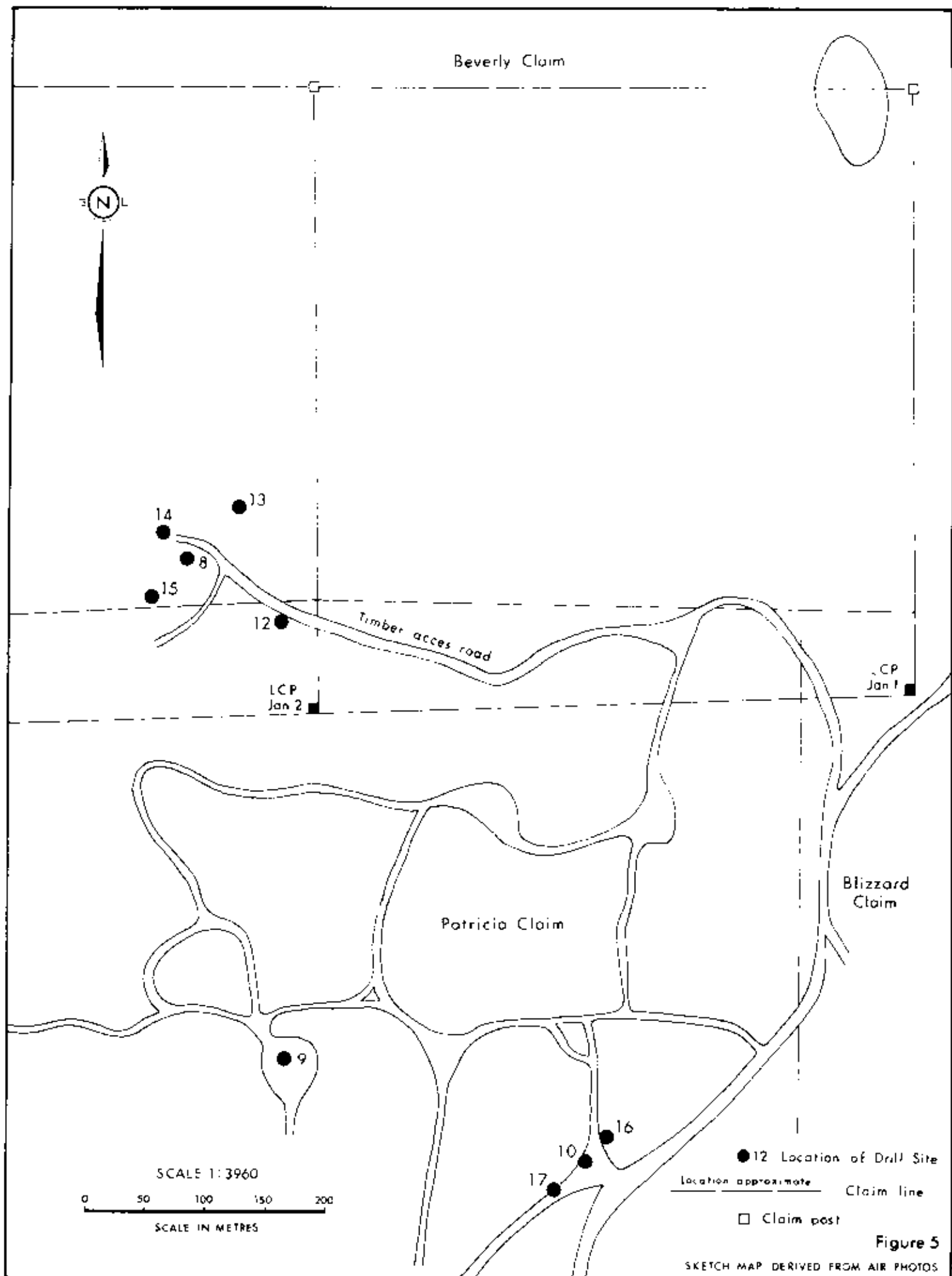


Figure 3





APPENDIX I

Rotary Drill Logs

JRC... ENE... R... JRC... LI... LD
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property, B.C.
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10 HOLE NUMBER: 77-R-1
 COLLAR: _____ CLAIM NAME: Moraig STARTED: November 12, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 13, 1977
 DIP: Vertical ULTIMATE DEPTH: 175 ft/53.3 m
 LOGGED BY: Jim Barclay, Glen McWilliams PROPOSED DEPTH: _____

DEPTH (surface) feet/m	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0		Rotary Tricone drilling 0-175 ft/0.53	3 m				
10/3		Pleistocene - Sand and silt	Background				
		Gravel, granite boulders, granite pebbles, some basalt chips	Background				
30/9.1		Miocene(?) - Silt and sand with cobble horizons up to 2 inches/5 centimeters thick	Background				
50/15.2		Sandy pebbly mudstone, light olive brown colour; sands and pebbles composed of quartz and granite. (sample at 57'/17.4 m)	2,000	1 lb/.3 kg sample			
140/42.7		Sandy mudstone, light olive grey colour 40% quartz and granite sands, 60% clays (sample at 142'/43.3 m)	2,000	1 lb/.3 kg sample			
145/44.2		Clayey sand, light olive grey colour 30% light olive grey, white and purple clays, 20% fine quartz sands, 50% medium to coarse quartz sands. Softer drilling. (Sample at 145'/44.2 m)	2,000	2 lbs/.7 kg sample			
162/49.4		Clayey sand, yellowish grey, similar to 145'/44.2 m, 5% quartz & granite pebbles (sample at 162'/49.4 m)	2,000	1 lb/.3 kg sample			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-1 . SHEET NUMBER: 2 of 2

DEPTH meters (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
172/52.4		Cretaceous(?) - White chlorite quartz monzonite bedrock (sample at 175'/53.3 m), Valhalla or Nelson Intrusion	2,000	3 lb./ .9 kg sample			
175/53.3		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10V HOLE NUMBER: 77-R-2
 COLLAR: _____ CLAIM NAME: Moraig STARTED: November 13, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 13, 1977
 DIP: Vertical ULTIMATE DEPTH: 160 ft./48.8 m
 LOGGED BY: Jim Barclay, Glen McWilliams PROPOSED DEPTH: _____

DEPTH (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-160 ft/0-48.	8 m				
		Pleistocene - Red-orange sand and silt locally silt and clay. Contact between Pleistocene and Miocene sediments not apparent from drill cuttings, probably about 30'/9.1 m					
80/24.4		Miocene (?) - Sandy Mudstone, dark yellowish orange colour, 75% dark yellowish orange clays, 25% quartz and feldspar sands. (sample at 97'/29.6 m, 107'/32.6 m)	2,000	2 lb/.7kg sample			
125/38.1		Clayey sand, light olive brown colour, 30% light olive brown clays and silts, 68% white and clear quartz and granite sands, 2% quartz and granite pebbles. (sample at 125'/38.1 m)	2,000	2 lb/.7 kg sample			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Iacana Option, Blizzard Property . HOLE NUMBER: 77-R-2 . SHEET NUMBER: 2 of 2 .

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
146		Green sandy mudstone, distinct change from sand at 125'	2,000	2 lb/.7 kg sample			
157		Cretaceous (?) leucocratic chloritized quartz monzonite, bedrock, Valhalla or Nelson Intrusion. (samples at 157', 160')	2,000	3 lb/.9 kg			
160		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-3
 COLLAR: _____ CLAIM NAME: Moraig STARTED: November 15, 1977
 ELEVATION: _____ BEARING: --- COMPLETED: November 15, 1977
 DIP: Vertical ULTIMATE DEPTH: 98 ft/29.9 m
 LOGGED BY: Jim Barclay, Glen McWilliams PROPOSED DEPTH: _____

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-98/0-29.9 m					
19/5.8		Pleistocene - Glacial "granite" boulder till, light olive grey colour, 65% leucocratic quartz monzonite boulders, 25% light olive grey clays, 10% quartz monzonite sands and quartz sands, some basalt cobbles (sample at 19'/5.8 m).	2,000	1½ lb/.5 kg sample			
60/18.3		Miocene(?) - Sandy mudstone with boulder horizons, light olive grey color, 40% light olive grey clays, 40% quartz and granite sands, 20% granite boulder cuttings (sample 40' 12.2m). Yellowish grey color, more clays (sample at 60'/18.3 m)	2,000	2 lb/.7 kg sample			
80/24.4		Sandy mudstone, light olive grey color, 70% light olive grey clays, 30% quartz sands. (Sample at 80'/24.4 m)	2,000	3 lb/.9 kg sample			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-3 . SHEET NUMBER: 2 of 2

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
95/29		Cretaceous (?) - Biotite granodiorite biotite quartz monzonite, Valhalla or Nelson Intrusion. 80% white feldspar (dominantly K-spar), 15% grey and clear quartz, 5% black biotite (Sample at 98'/29.9 m)	2,000	3 lb/.9kg sample			
98/29.9		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E - 10W HOLE NUMBER: 77-R-4

COLLAR: _____ CLAIM NAME: Moraig STARTED: November 16, 1977

ELEVATION: _____ BEARING: _____ COMPLETED: November 16, 1977

DIP: Vertical ULTIMATE DEPTH: 65 feet/19.8 m

LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH 1000 feet (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-65/0-19.8 m					
10/3	?	Pleistocene - Glacial boulder till, cobbles about 3" in size, pale yellowish brown colour, 10% pale yellowish brown clays, 88% leucocratic granite boulder cuttings, 2% porphyritic basalt cutting. (Sample at 10'/3 m)	2,000	3 lb/.9 kg sample			
39/11.9		Miocene(?) Clayey granite conglomerate may be Miocene sediments but Pleistocene/Miocene contact difficult to position. Light olive grey colour, 50% chloritic granite boulder cuttings, 30% light olive grey clays, 20% quartz and granite sands. (Sample at 39'/11.9 m)	2,000	3 lb/.9 kg sample			
61/18.6		Blue mudstone, hard pan. Uniform to depth of 61'/18.6 m.	Background				
65/19.8		Cretaceous(?) - Chloritized granite or quartz monzonite, bedrock. (Sample at 65'/11.8 m) Valhalla or Nelson Intrusion.	Background				
		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property
 SHEET NUMBER: 1 of 3 N.T.S. NUMBER: 82F-10W HOLE NUMBER: 77-R-8
 COLLAR: _____ CLAIM NAME: JAN 2 STARTED: November 19, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 22, 1977
 DIP: Vertical ULTIMATE DEPTH: 140 ft/42.7 m
 LOGGED BY: Jim Barclay, Glen McWilliams PROPOSED DEPTH: _____

DEPTH (feet/m) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					(feet/m) (feet/m)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-140 ft/0-42.7 m					
17'/5.2		Pleistocene - Glacial boulder till and sand and clay. Medium brown to grayish brown colour. 15-30% clays and silts, 5 - 30% quartz, feldspar, granite and basalt sands, 40 - 80% basalt and granite boulders in roughly equal proportions. (Samples at 13'/4 m, 17'/5.2 m)	2,000	½ lb/.2 kg sample			
			2,000	3 lb/1.4 kg sample			
45/13.1		Miocene - Clayey granite gravel - sand. Dark yellowish brown, greys and olive black colours. 10-30% clays and silts, 9-60% quartz, feldspar and granite sands, 20-60% quartz, feldspar and granite pebbles (sample at 28'/8.5 m). (Sample at 45'/13.1 m)	2,000	.2/lb/.1 kg sample		24309	.09 lb U308/ton
55/16.8		Minor brown-black, carbonized wood and leaf chips (sample at 55'/16.8 m)	2,000	2 lb/.9 kg sample		24310	.1 lb U308/ton
65/19.8		(Sample at 65'/19.8 m)	2,000	2 lb/.9 kg sample		24311	.04 lb U308/ton

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property. HOLE NUMBER: 77-R-8 SHEET NUMBER: 2 of 3

DEPTH (metres) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY			
					INTERVAL (metres)	NUMBER	U308 CHEMICAL	PROBE ASSAY
70/21.3		Sandy and pebbly mudstones. Olive grey, olive black and brown colours. 40-70% clays, coloured as above (average 55% clays), 10-30% quartz feldspar and granite sands (average 23%), 0-30% quartz feldspar and granite pebbles (average 17%). Minor wood and leaf chips in upper layers.						4.60 lb U308/ton over 20 ft/
75'/22.9		(Sample at 75'/22.9 m) Brown-black wood and leaf chips.	2,000	2 lb/.9 kg		24312	.06 lb u308/ton	6.1 m
78'/23.8		(Sample at 78'/23.8 m) chips as above	2,000	1 lb/.5 kg		24313	.08 lb u308/ton	(69-89 ft)
83'/25.3		(Sample at 83'/25.3 m) no chips	45,000	3 lb/1.4 kg		24314	5.72 lb u308/ton	(21-27.1m)
87'/26.5		(Sample at 87'/26.5 m)	18,000	2 lb/.9 kg		R-8-87	4.08 lb U308/ton	
89'/27.1		(Sample at 89'/27.1 m)	13,000	2 lb/.9 kg		R-8-89	2 lb U308/ton	
89.5/27.3		(Sample at 89.5/27.3 m)	6,500	½ lb/.2 kg		R-8-89.5	1.52 lb U308/ton	
96/29.3		(Sample at 96'/29.3 m)	10,000	3 lb/1.4 kg		R-8-96	2.82 lb U308/ton	
100/30.5		(Sample at 100'/30.5 m)	11,000	5 lb/2.3 kg				
103/31.4		(Sample at 103/31.4 m)	3,500	1 lb/.5 kg				
110/33.5		(Sample at 110'/33.5 m)	3,500	2 lb/.9 kg				
117/		(Sample at 117'/	3,800	1 lb/.5 kg				
122/37.2		(Sample at 122'/37.2 m)	2,800	1 lb/.5 kg				
127/38.7		The drilling was stopped at 127'/38.7 m. On returning the next day the hole was flowing with about 3 gallons water per minute. At least 250 gallons flowed overnight since the drilling pit was overflowing. The flow originated between the surface and 127'/38.7 m. If it originated from the same horizon as at hole #77-R-14 then the water originated at a depth of about 50'/15.2 m.						

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property HOLE NUMBER: 77-R-8 SHEET NUMBER: 3 of 3

DEPTH (feet/m) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
130/39.6		(Sample at 130'/39.6 m)	2,700	1 lb/.5 kg sample			
133/40.5							
		Cretaceous (?) - White granite with 5% chlorite, bedrock. Valhalla or Nelson Intrusion (Sample at 140'/42.7 m)	2,000	316/1.4 kg			
140/42.7		END OF HOLE					

MINERAL RESOURCES
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-9

COLLAR: _____ CLAIM NAME: Patricia STARTED: November 22, 1977

ELEVATION: _____ BEARING: _____ COMPLETED: November 22, 1977

DIP: Vertical ULTIMATE DEPTH: 23 ft/ 7 m

LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308. CHEMICAL
0/0		Rotary Tricone drilling 0-23 ft/0-7 m)					
18/5.5		Pleistocene - Sand with clay and boulders. 60% quartz, feldspar, granite, basalt, intermediate volcanics or chloritic phases of granite?, 20% pebbles with lithologies as in sands, 20% dark yellowish brown clays. (Sample at 5'/1.5 m)	2,000	3 lb/.9 kg sample			
23/7		Cretaceous (?) - Chlorite granite, bedrock. 75% white feldspar, 12% dark green chlorite flakes, 10% grey and clear quartz, 3% pale apple-green epidote veinlets, alteration: very minor rust-red hematite veinlets. Valhalla or Nelson Intrusion. (Samples at 18'/5.5 m, 21'/6.4 m)	2,000 2,000	3 lb/.9 kg sample 4 lb/1.2 kg sample			
		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 3 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-10

COLLAR: _____ CLAIM NAME: Patricia STARTED: November 23, 1977

ELEVATION: _____ BEARING: ----- COMPLETED: November 23, 1977

DIP: Vertical ULTIMATE DEPTH: 64 ft/19.5 m

LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-64 ft/0-19.5 m)					
15/4.6		<u>Pleistocene</u> - Glacial Gravelly sand, light olive grey colour. 60% assorted sands: quartz, chlorite granite, porphyritic basalt, intermediate volcanic, fine-grained granodiorite, 25% assorted pebbles, as above, 15% light olive grey clays. (Sample at 10'/3 m)	2,000	2 lb/.7 kg sample			
18/5.5		<u>Miocene(?)</u> - Interbedded clays: alternating layers of grey-brown, beige and blue clays, 20% quartz sand, soft drilling; (Reading taken at 15'/4.6 m)	2,000	4 lb/1.2 kg			
		Leucocratic granite gravel, mottled light olive brown colour, 73% leucocratic granite pebbles and cuttings, 15% olive grey clays, 10% leucocratic granite sands, 2% fine grained granodiorite or rhyodacite pebbles. (Sample at 21'/6.4 m) (Sample at 28'/8.5 m) Granites are weathered.	2,000	3 lb/.9 kg			
			2,000	1 lb/3 kg sample			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property. HOLE NUMBER: 77-R-10 SHEET NUMBER: 2 of 3

DEPTH (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY			
					INTERVAL (feet/m)	NUMBER	U308 CHEMICAL	Probe Assay
30/9.1		Sandy mudstone - light olive brown colour; 60% light olive brown clays 30% quartz, feldspar and chlorite granite sands, 10% pebbles (as the sands). (Sample at 30'/9.1 m)	2,000	4 lb/1.2 kg sample				
38		Clayey sand with pebbles. Dusky yellow and grey-blue. 30% clays coloured dusky yellow and grey-blue, 50% quartz, feldspar and granite sands, 10% quartz, feldspar and granite pebbles, 10% very fine quartz sands. Some of pebbles stained rust-brown with iron staining. (Sample at 38') (Reading taken at 46'/14 m)	5,000	4 lb/.2 kg		R-10-38	0.87 lb U308/ton	.81 lb U308/ton over 10 ft/3 m (32-42 ft) (9.9-12.8m)
46/14			4,000	8 lb/2.4 kg sample				
48/14.6		Clayey chloritized - granite sand and gravel. 50% sands, 30% pebbles and boulder cuttings, 20% light olive grey clays. Grains are very fresh in appearance. (Sample at 48'/14.6 m)	2,000	4 lb/.2 kg sample		24315	.16 lb U308/ton	
						24316	.04 lb U308/ton	
59/18		(Reading taken at 59'/18 m)	2,000	8 lb/2.4 kg sample				

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property HOLE NUMBER: 77-R-10 SHEET NUMBER: 3 of 3

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
61/18.6		Cretaceous (?) - Leucocratic chlorite granite bedrock with fine grained chloritic phases. Valhalla or Nelson Intrusion. 80% white feldspar, 10% quartz, 10% chlorite. Medium grained. (Sample at 63'/19.2 m)	2,000	3 lb/.9 kg sample			
64/19.5		END OF HOLE					

JRC. SNE RI JRC LIP ID
 DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-11
 COLLAR: _____ CLAIM NAME: Patricia STARTED: November 24, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 24, 1977
 DIP: Vertical ULTIMATE DEPTH: 20 ft/6.1 m
 LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (feet/m) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-20 ft/0-6.1 m					
15/4.6		Pleistocene - Glacial boulder till dark yellowish brown colour, 70% pebbles - quartz, granite, feldspar, basalt, chloritic phases of granite, Valhalla Intrusives (?) i.e. garnets set in fine-grained black matrix, 17% sands, assorted as pebbles, 10% dark yellowish brown clay, 3% black leaf and wood chips, humus. (Sample at 5'/1.5 m)	2,000	1 lb/.3 kg sample			
20/6.1		Cretaceous (?) - Leucocratic chlorite granite bedrock. Also in sample are minor amounts of diorite (?) cuttings i.e. 5% quartz, 5% pinkish garnet set in a fine-grained grey-black matrix. (Samples at 15'/4.6 m, 18'/5.5 m)	2,000	3 lb/.9 kg sample			
		END OF HOLE					

ORC EN. Y F URG LI ED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-12
 COLLAR: _____ CLAIM NAME: JAN 2 STARTED: November 24, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 25, 1977
 DIP: Vertical ULTIMATE DEPTH: 96 ft/29.3 m
 LOGGED BY: _____ PROPOSED DEPTH: _____

DEPTH (feet/m)	LITHO-LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-96 ft/0-29.3 m					
15/4.6		Pleistocene - Glacial boulder till and clayey sand-gravel. 40-70% pebbles and boulder cuttings - quartz feldspar, granite, basalt, granite gneiss, diorite, garnet-rich diorite (?), 20-40% sands, assorted as above, 10-20% olive grey clays, minor humus at top (Samples at 8'/2.4 m, 15'/4.6 m)	2,000	3 lb/.9 kg sample			
		Miocene (?) Clayey granite sand, olive grey colour, 20% olive grey clays, 65% quartz, feldspar and granite sands, 13% pebbles (as above), 2% black wood and leaf matter near 27'. (Sample at 25'/7.6 m)	2,000	3 lb/.9 kg sample			
33/10.1		Sandy granite gravels with clay (Sample at 33'/10.1 m) 40%-50% quartz, feldspar and granite pebbles and boulder cuttings, 30-40% sands, 16 to 30% light olive grey clays. 1 to 4 % brown-black wood chips at 33'/10.1 m and 47'/14.3 m (Sample at 47'/14.3 m)	2,000	2 lb/.7 kg sample			
47/14.3			2,000	2 lb/.7 kg sample			
51/15.5		(Sample at 51'/15.5 m)	2,000	2 lb/.7 kg sample			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-12 . SHEET NUMBER: 2 of 2

DEPTH (feet/m)	LITHO-LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY			
					INTERVAL Interval (feet/m)	NUMBER	U308 CHEMICAL	PROBE ASSAY
56/17.1		Clayey chlorite granite sand, dark yellowish brown colour. 20% dark yellowish brown clays, 65-70% white chlorite granite, quartz and feldspar sands, 10-15% pebbles and boulder cuttings as above. (Samples at 58'/17.7 m, 61'/18.6 m)	2,000 2,000	3 lb/.9 kg sample 3 lb/.9 kg		24306	.04 lb U308/ton	0.12 lb U308/ton over 2 feet, 0.7 m. (63-65 ft) (19.2-19.8m)
85/25.9		Granite gravel, light olive grey colour, 95% granite, quartz and feldspar pebbles and boulder cuttings 5% sand as above. (Sample at 87'/26.5 m)	2,000	1 lb/.3 kg sample		24307	.02 lb U308/ton	
94/28.7		Cretaceous - White chlorite granite, bedrock. (Sample at 96'/29.3 m) Valhalla or Nelson Intrusion.	2,000	2 lb/.7 kg sample				
96/29.3		END OF HOLE						

ORCL. ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-13

COLLAR: _____ CLAIM NAME: JAN 2 STARTED: November 25, 1977

ELEVATION: _____ BEARING: _____ COMPLETED: November 25, 1977

DIP: Vertical ULTIMATE DEPTH: 76 ft/23.2 m

LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (metres) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-76'/0-23.2m					
		Pleistocene - Glacial clayey sand. Moderate yellowish brown colour. 55% weathered granite, quartz and feldspar sands, 30% moderate yellowish brown clays, 15% basalt and granite pebbles. (Sample at 0'/0 m)	2,000	2 lb/.7 kg sample			
10/3 (?)		? ? ? ?	2,000	2 lb/.7 kg sample			
		Miocene(?) - Clayey granite sand, light olive brown colour. 60% granite, quartz and feldspar sands, 30% light olive brown clays, 10% pebbles. (Sample at 10'/3 m)					
20/6.1		Pebbly granite sand-dark yellowish brown colour. Similar to sample at 10'/3 m, more pebbles, less clay.					
30/9.1		Clayey granite gravel-dark yellowish brown colour. 70% quartz, feldspar and white granite pebbles and boulder cuttings, 20% dark yellowish brown clays and silts,	2,000	1½ lb/.5 kg			

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-13 . SHEET NUMBER: 2 of 2

DEPTH (meters)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
40/12.2		10% sands - quartz, feldspar, granite, minor magnetite. (Sample at 30'/9.1 m) Granite gravel, light olive grey similar to above, only 5% clays (Sample at 40'/12.2 m)	2,000	2 lb/.7 kg sample			
50/15.2		Pebbly granite sand, various colours (light olive grey, light olive brown, dark yellowish brown). 40-60% white granite sands, 30-40% white granite pebbles and boulder cuttings, 5-30% clays. (Sample at 50'/15.2 m)	2,000	2 lb/.7 kg sample			
60/18.3		(Sample at 60'/18.3 m)	2,000	3 lb/.9 kg sample			
70/21.3		(Sample at 70'/21.3 m)	2,000	3 lb/.9 kg sample			
75/22.9		Cretaceous (?) - White magnetite granite, bedrock. Possibly Nelson Intrusion as suggested by the 2% magnetite. (Sample at 75'/22.9 m)	2,000	½ lb/.2 kg sample			
76/23.2		END OF HOLE					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 2

N.T.S. NUMBER: 82E-10W

HOLE NUMBER: 77-R-14

COLLAR: _____

CLAIM NAME: JAN 2

STARTED: November 26, 1977

ELEVATION: _____

BEARING: _____

COMPLETED: November 26, 1977

DIP: Vertical

ULTIMATE DEPTH: 150 ft/45.7 m

LOGGED BY: Jim Barclay

PROPOSED DEPTH: _____

DEPTH (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-150'/45.7 m)	2,000	2 lb/.7 kg sample			
10/3		Pleistocene - Glacial basalt boulder till, olive grey colour, 80% vesicular basalt boulder cuttings, 10% white magnetite granite boulder cuttings, 10% olive grey clays. (Sample at 10'/3 m)	2,000	2 lb/.7 kg sample			
13 1/2/4.1		Miocene (?) - Vesicular and porphyritic basalts, olive black colour. (Sample at 20'/6.1 m)	2,000	2 lb/.7 kg sample			
51/15.5		Miocene (?) - Pebbly mudstone, olive grey colour. 60% olive grey clays, 30% quartz, feldspar and granite pebbles, 8% sands as above, 2% basalt pebbles and sands. (Sample at 44'/13.4 m)	2,000	3 lb/.9 kg sample			
58/17.7		Sandy mudstone - 10% more sand than above (Sample at 51'/15.5 m)	2,000	2 lb/.7 kg			
		Granite sand with varying amounts of clay, olive grey colour. 49-85% gran- ite, quartz and feldspar sands, 4-20% pebbles as above, 10 to 40% olive grey clays, minor carbonized wood and leaf matter (sample at 58'/17.7 m)					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-14 . SHEET NUMBER: 2 of 2

DEPTH (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY				
					INTERVAL (feet/m)	NUMBER	U308 CHEMICAL	PROBE ASSAY	
74/23.2		(Sample at 74'/23.2 m)	2,000	2 lb/.7 kg sample		R-14-83'	0-53 lb/ton		
83/25.3		(Sample at 83'/25.3 m)	2,000	2 lb/.7 kg sample				2.56 lb U308/ton	
86/26.2		(Sample at 86'/26.2 m)	3,000	3 lb/.9 kg sample		R-14-86'	0.77 lb/ ton	over 13 feet/ 4 m	
90/27.4		Sandy mudstones - olive brown and bluish olive colours. 70-85% clays, 12-30% quartz, feldspar and granite sands, 0-8% pebbles (Sample at 94'/28.7 m)						(81-94 ft) (24.7-28.7m)	
94/28.7			7,000	2 lb/.7 kg sample		R-14-94	0.85 lb/ton		
123/37.5			(Sample at 123'/37.5 m)	2,500	3 lb/.9 kg sample				
138/42.1			(Sample at 138'/42.1 m)	2,800	3 lb/.9 kg sample				
148/45.1		Cretaceous(?) - Biotite granite, bed- rock.	2,000	2 lb/.7 kg sample					
150/45.7		Valhalla or Nelson Intrusion END OF HOLE							

NORCEM ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E-10W

HOLE NUMBER: 77-R-15

COLLAR: _____ CLAIM NAME: JAN 2

STARTED: November 27, 1977

ELEVATION: _____ BEARING: _____

COMPLETED: November 29, 1977

DIP: Vertical

ULTIMATE DEPTH: 120 ft/36.6 m

LOGGED BY: Jim Barclay

PROPOSED DEPTH: _____

DEPTH (metres) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY			
					INTERVAL (metres) (feet/m)	NUMBER	U308 CHEMICAL	PROBE ASSAY
0/0		Rotary Tricone drilling 0-120 ft/0-36.6 m						
11/3.4		Pleistocene - Glacial boulder till medium brown colour. 70% boulders, dominantly basalt origin, 30% medium brown sands with some clay.	2,000	3 lb/.9 kg sample				
13/4		Miocene (?) - Vesicular and porphyritic basalts. Dark black colour, fine-grained. Botryoidal, limonite (?) vesicles infillings. (Sample at 11'/3.4 m)						
		(Sample at 13'/4 m)	2,000	3 lb/.9 kg sample				
		(Sample at 18'/5.5 m)	2,000	3 lb/.9 kg sample				
18/5.5		-----						
19/5.8		Thin layer of mudstone hardpan						
25/7.6		Basalts (as above)						0.58 lb U308/ton over 11 ft/3.4 m
45/13.7		Miocene (?) - Pebbly mudstone, olive grey colour. 60% olive grey clays, 25% quartz, feldspar and granite pebbles, 10% sands as above, 5% brown-black wood chips (Sample at 45'/13.7 m)	3,000	3 lb/.9 kg sample		24308	.36 lb U308/ton	(25-36 ft) (7.6-11 m)

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property . HOLE NUMBER: 77-R-15 . SHEET NUMBER: 2 of 2

DEPTH (meters) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
60/18.3		pebbly granite sand, olive grey colour 43% granite, quartz and feldspar sands, 40% pebbles as above, 15% olive grey clays, 2% brown-black wood chips (Sample at 62'/18.9 m)	2,000	4 lb/1.2 kg			
92/28.0		Clayey granite sand, similar to above, more clays (30-40%) (Sample at 92'/28 m)	2,000	3 lb/.9 kg sample			
100/30.5		(Sample at 100'/30.5 m)	2,000	4 lb/1.2 kg sample			
118/36.0		Cretaceous (?) White chlorite granite bedrock. (Sample at 120'/36.6 m) Valhalla or Nelson Intrusion.	2,000	2 lb/.7 kg sample			
120/36.6		END OF HOLE					

ROYAL CANADIAN MOUNTED POLICE
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E-104 HOLE NUMBER: 77-R-16
 COLLAR: _____ CLAIM NAME: Patricia STARTED: November 30, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 30, 1977
 DIP: Vertical ULTIMATE DEPTH: 77 ft/23.5 m
 LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (metres) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL metres (feet/m)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-77'/0-23.5 m	1,700	5 lb/1.5 kg sample			
27/8.2		Pleistocene - Glacial gravelly sand. 80% medium rust-brown sand, 20% granite boulders.	2,000	4 lb/1.2 kg sample			
42/12.8		Miocene(?) - Rusty white biotite - granite gravel, moderate yellowish brown and dusky yellow colours. 70-80% white biotite-granite boulder cuttings and pebbles, 15-20% similar sands, 5-20% yellowish brown clays. (Sample at 27'/8.2 m) (Sample at 42'/12.8 m)	2,000	4 lb/1.2 kg sample			
50/15.2		(Sample at 50'/15.2 m). Gravels become progressively less rust-stained towards the bedrock.	2,000	3 lb/.9 kg sample		24317	.04 lb U308/ton
68/20.7		(Sample at 68'/20.7 m)	2,000	2 lb/.7 kg sample			0.05 lb U308/ton over 8 ft/ 2.4 m
72/21.9		(Sample at 72'/21.9 m)	2,000	2 lb/.7 kg sample		24318	.04 lb U308/ton
75/22.9							(56-64 ft) (17.1-19.5m)
77/23.5		Cretaceous(?) - White biotite-granite bedrock and rusty fine-grained biotite- granodiorite bedrock. (Sample at 77'/23.5 m)	2,000	3 lb/.9 kg sample			

NORCLAW ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Lacana Option, Blizzard Property

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E-10W HOLE NUMBER: 77-R-17
 COLLAR: _____ CLAIM NAME: Patricia STARTED: November 30, 1977
 ELEVATION: _____ BEARING: _____ COMPLETED: November 30, 1977
 DIP: Vertical ULTIMATE DEPTH: 72 ft/21.9 m
 LOGGED BY: Jim Barclay PROPOSED DEPTH: _____

DEPTH (surface) (feet/m)	LITHO- LOG	DESCRIPTION	TV-1A BAG COUNT cpm	RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
0/0		Rotary Tricone drilling 0-72 ft/0-21.9 m)					
12/3.7		Pleistocene - Glacial sand, yellowish grey colour. 75% assorted sands - quartz, feldspar, granite, diorite (?) basalt, fine-grained granodiorite, magnetite sands. 10% assorted pebbles, as above. 15% yellowish grey clays. (Sample at 13'/4 m)	2,000	2 lb/.7 kg sample			
48/14.6		Miocene(?) - Sandy mudstone, light olive grey colours. 50-70% clays coloured as above, 20-35% quartz, feldspar and granite sands, 5-20% quartz, feldspar and granite pebbles. (Sample at 31'/9.4 m) (Sample at 48'/14.6 m)	2,000	3 lb/.9 kg sample			
55/16.8		(Sample at 55/16.8)	2,000	2 lb/.7 kg sample			
71/21.6		(Sample at 71/21.6)	2,000	4 lb/1.2 kg sample			
72/21.9		Cretaceous(?) - white granite with chlorite, bedrock. Valhalla or Nelson Intrusion. (Sample at 71'/21.6 m). END OF HOLE					

APPENDIX II

Geochemical Assay Results



629 Beaverdam Rd. N.E.
Calgary 67, Alberta

LORING LABORATORIES LTD.

Phone 274-2777

Assay Uranium - Fluorimetric

Sample Preparation

All cores and chips are crushed and ground to 100% minus 100 mesh, mixed and placed in pre-marked assay bags.

Sample Dissolution

If samples contain carbon, the 1 gram samples are calcined in porcelain crucibles at 500° C and transferred to 250 ml. beakers.

10 mls. HCl are added, boiled gently for ten minutes, 5 mls. HNO₃ are then added and boiled a further 10 minutes. Remove lids and wash down sides of beakers. 3 mls. HF and 10 mls. (1:1) H₂SO₄ are added and assays are taken to dryness overnight.

10 mls. HCl are added to cooled beaker, the assay is then boiled gently for 10 minutes and filtered into 100 ml. volumetrics. After washing well with hot distilled water the flasks are cooled and shaken. A 100 lambda aliquot is then taken in triplicate to platinum crucibles. Standards of 0, .1, 1.0, 3.0, 5.0, 10.0 and 50.0 ppm conc U₃O₈ are carried with each series of samples and used to calibrate instrument. Also, standards of known value are carried with each series of samples to correct for any variance in fusion temperature or instrument fluctuation.

0.3 g of Na₂CO₃ - NaF flux are placed in pt. crucible and they are then fused at 850° C for 2½ minutes.

When samples have solidified and cooled they are read on fluorimeter.

TO: NORGEN ENERGY RESOURCES LIMITED,
7th Flr., 715 - 5th Avenue S.W.,
Calgary, Alberta T2P 2X7



File No. 14620
Date December 14, 1977
Samples Mud

ATTN: Jim Barclay

Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	Chemical PPM U308
R-10-38	435.0
R-14-83	26.6
R-14-86	387.0
R-14-94	423.0
R-18-70	818.0

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Samples Retained one month.
Residuals Retained one month
unless specific arrangements
be made in advance.

Edm J. O'Connell
Licensed Assayer of British Columbia

TO: NORCEN ENERGY RESOURCES LIMITED,
 7th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7



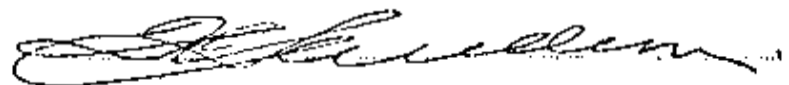
File No. 14488
 Date November 24, 1977
 Samples Chip

ATTN: Don Sawyer

Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

SAMPLE No.	Assay % U308
<u>'Chip Samples'</u>	
24301	.076
24302	.100
24303	.204
24304	.141
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>	

jects Retained one month.
 Pulps Retained one month
 less specific arrangements
 ide in advance.


 Licensed Assayer of British Columbia

To: NORGEN ENERGY RESOURCES LIMITED,
2nd Flr., 715 - 5th Avenue S.W.,
Calgary, Alberta T2P 2X7



File No. 14730
Date January 10, 1978
Samples Chip

ATTN: Mr. Jim Barclay

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	Chemical PPM U308	Chemical % U308
<u>"Chip Samples"</u>		
24306	19.0	.002
24307	11.0	.001
24308	178.0	.018
24309	31.4	.003
24310	46.4	.005
24311	19.0	.002
24312	34.0	.003
24313	38.8	.004
24314	2861.0	.286
24315	83.2	.008
24316	15.7	.002
24317	17.3	.002
24318	17.6	.002
24319	84.9	.008
24320	121.0	.012

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Samples Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

Ed McFadden
Licensed Assayer of British Columbia

APPENDIX III

Summary of Expenditures

SUMMARY OF EXPENDITURES - ROTARY DRILLING PROGRAM
PATRICIA, MORAIG, JAN 1, JAN 2, JAN 3 CLAIMS

Drilling

Rotary Drilling contracted from Plateau Exploration and Water Wells Ltd., Grand Forks, B.C.

Equipment used Chicago Pneumatic Reich T650W
Truck mounted hydraulic drill using tricone bits to drill 6 1/4 inch holes.

1231' @ \$5.50/ft. (Nov. 10-Dec. 3/77)	\$6,770.00
Labour charge for sealing hole R8 2.5 hrs @ \$65/hr.	162.50

Down Hole Natural Gamma Probe

Contracted from Data Probe Logging Ltd., Calgary, Alberta.

Detector type Scintillometer 3/4" x 3" NaI crystal Nov. 24 - Dec. 4/77.

11 days @ \$400/day	\$4,400.00
10 days accommodation for Operator W.R. Davies @ \$20/day	200.00

Caterpillar Tractor

For snow removal and site preparation
Type D7 contracted from L&D Petch Contracting Ltd., Kelowna, B.C. Nov. 24 - Dec. 2/77.

27 hrs @ \$36/hr.	\$ 972.00
-------------------	-----------

4 x 4 Truck

Rented from Avis Rent-a-Car, Kelowna, B.C.
Lic. #4051 DA,

Nov. 9 - Dec. 3/77.	\$ 800.54
Gas for truck	186.60

Chemical Assays

Fluorimetric Method as outlined in Appendix II
Loring Laboratories Ltd., Calgary, Alberta

21 U308 Assays @ \$11/sample	\$ 231.00
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SUMMARY OF EXPENDITURES (Contd.)Salaries of Supervising GeologistsGlen McWilliams (Nov. 10 to Nov. 19, 1977)

10 days spent locating drill holes, supervising drilling operation and collecting samples. 2 of the 10 days spent on supervising drilling on adjacent claim group.

Total 8 days spent on Patricia, Moraig and Jan Claims @ \$100/day \$ 800.00

Jim Barclay (Nov. 10 to Dec. 1, 1977)

Locating drill sites, supervising drilling operating, collecting samples, supervising down hole probing with gamma probe

2 days (Nov. 17-18) spent supervising drilling on adjacent claim group

Total 29 days spent on Patricia, Moraig and Jan Claims @ \$65/day \$1,885.00

Jim Barclay

5 days spent drying, disaggregating and examining samples in Calgary (office Dec. 5-9/77)

5 days @ \$65/day \$ 325.00

6 days spent writing drill logs (Dec. 12-16 & Dec. 19)

6 days @ \$65/day \$ 390.00

Glen McWilliams

4 days preparing sketch maps and writing Assessment Report (Feb. 7 to 10, 1978)

4 days @ \$100/day \$ 400.00

Accommodation at Beaverdell for Supervisory Staff

Glen McWilliams - 8 days (Nov. 10-19, excl. 17&18)

Jim Barclay - 28 days (Nov. 10-Dec. 1, excl. 17&18)

Total 36 days @ \$20/day \$ 720.00

TOTAL \$18,242.00

APPENDIX IV

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Glen McWilliams of the City of Calgary, in the Province of Alberta, do hereby state:

- (1) I am a graduate of Carleton University of the City of Ottawa with a B.Sc. degree in Geology, obtained in 1972.
- (2) I have been continuously employed as a geologist in all phases of mineral exploration since my graduation in 1972.
- (3) I have been involved in mineral exploration in the provinces of British Columbia, Alberta, Ontario, Nova Scotia and in the Northwest Territories.
- (4) I have been employed by Norcen Energy Resources Limited, Calgary, Alberta, as a geologist for the past three years.
- (5) I have personally supervised the work described in this report.

A handwritten signature in cursive script that reads "Glen McWilliams". The signature is written in black ink and is positioned above the printed name.

Glen McWilliams

STATEMENT OF QUALIFICATIONS

I, James Elliott Barclay, of the City of Calgary,
in the Province of Alberta, do hereby state:

- (1) I am a graduate of Carleton University with a B.Sc. Honours degree in Geology, obtained in 1976.
- (2) I have been working continuously in mineral exploration since graduation.
- (3) During the past three years I have held positions as an exploration geologist with mining exploration companies based in Toronto and Newfoundland.
- (4) I am presently employed as Project Geologist with Norcen Energy Resources Ltd., 715 - 5th Avenue, S.W., Calgary, Alberta.
- (5) I personally supervised the drilling described in this report and completed the logs of the drill holes based on my examination of the drill cutting samples.



James Elliott Barclay
Project Geologist
Mining Exploration Department

Calgary, Alberta.
February 13, 1978.



DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E. CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 77R - 1

LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

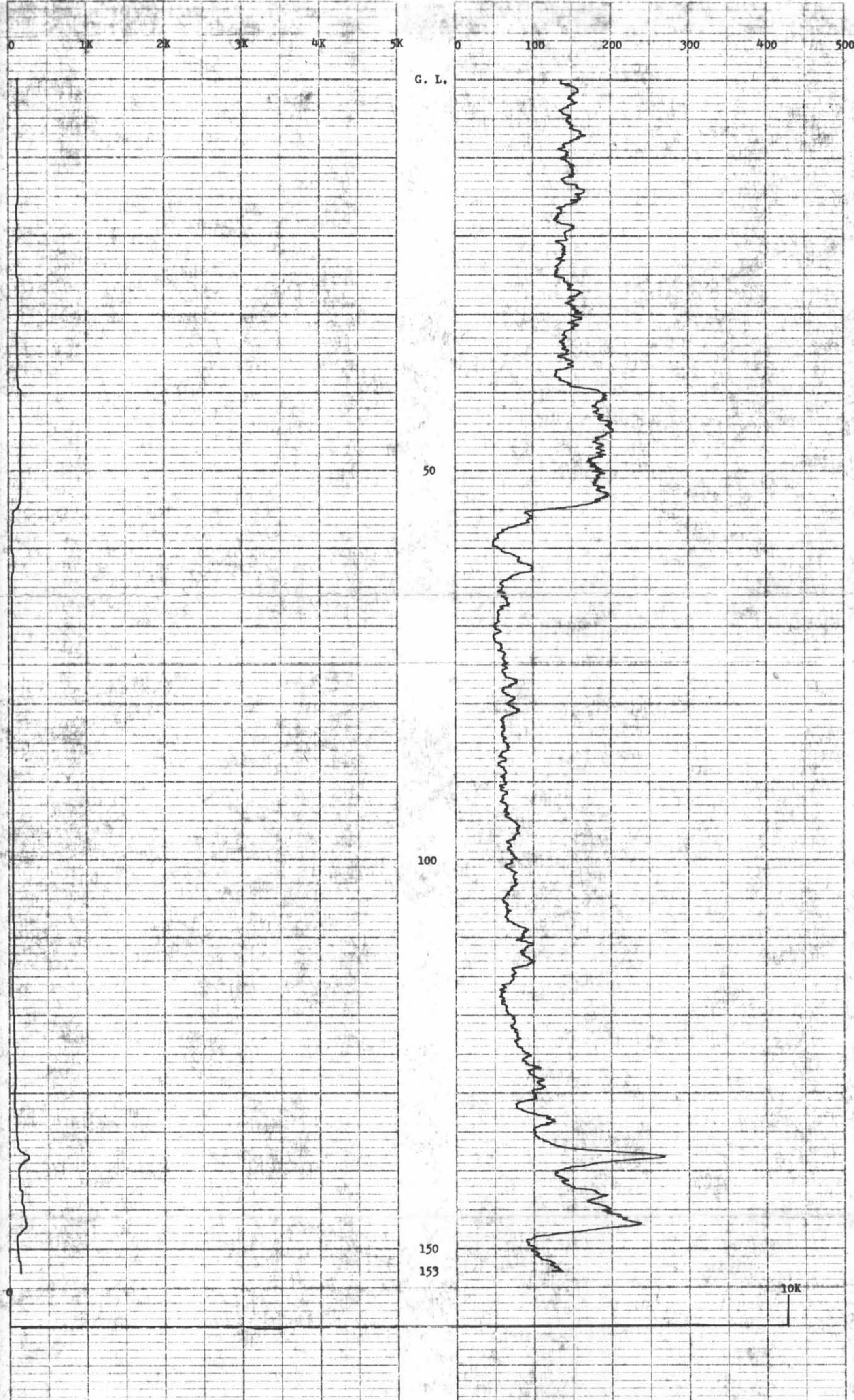
ASSESSMENT REPORT

No. 6640

MAR. NO. Part 1

App. V

DATE	Nov. 27, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH		DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	153'	TIME CONSTANT SECONDS	1 & 2	SCALE OHMS/IN
ZERO DATUM	G. I.	RECORDER SCALE, C.P.S. IN	1000 & 100	S.P. SCALE MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED FT./MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE FT. IN	10	WITNESSED BY





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



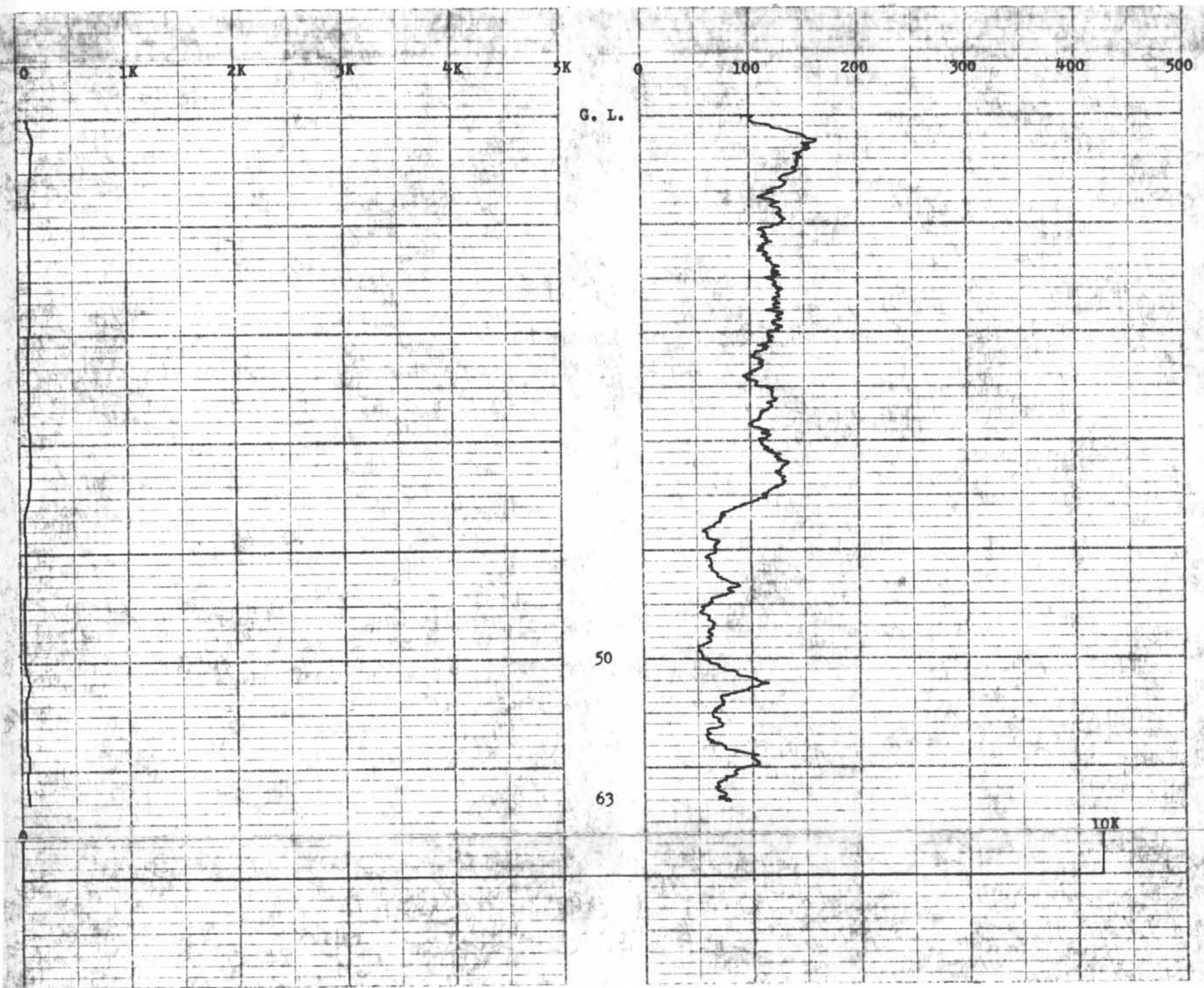
COMPANY NORCEN ENERGY RESOURCES LIMITED
 HOLE NUMBER OR NAME 77 - R - 3
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 No. 6640
 MAP NO. part

LOG TYPE Natural Gamma

1 of 2

DATE	Nov. 29, 1977	TOOL MFG & S'N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	98'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	63'	TIME CONSTANT SECONDS	1 & 2	SCALE OHMS/IN
ZERO DATUM	G. I.	RECORDER SCALE, C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT./MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT./IN.	10	WITNESSED BY





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E. CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 77 - R - 4

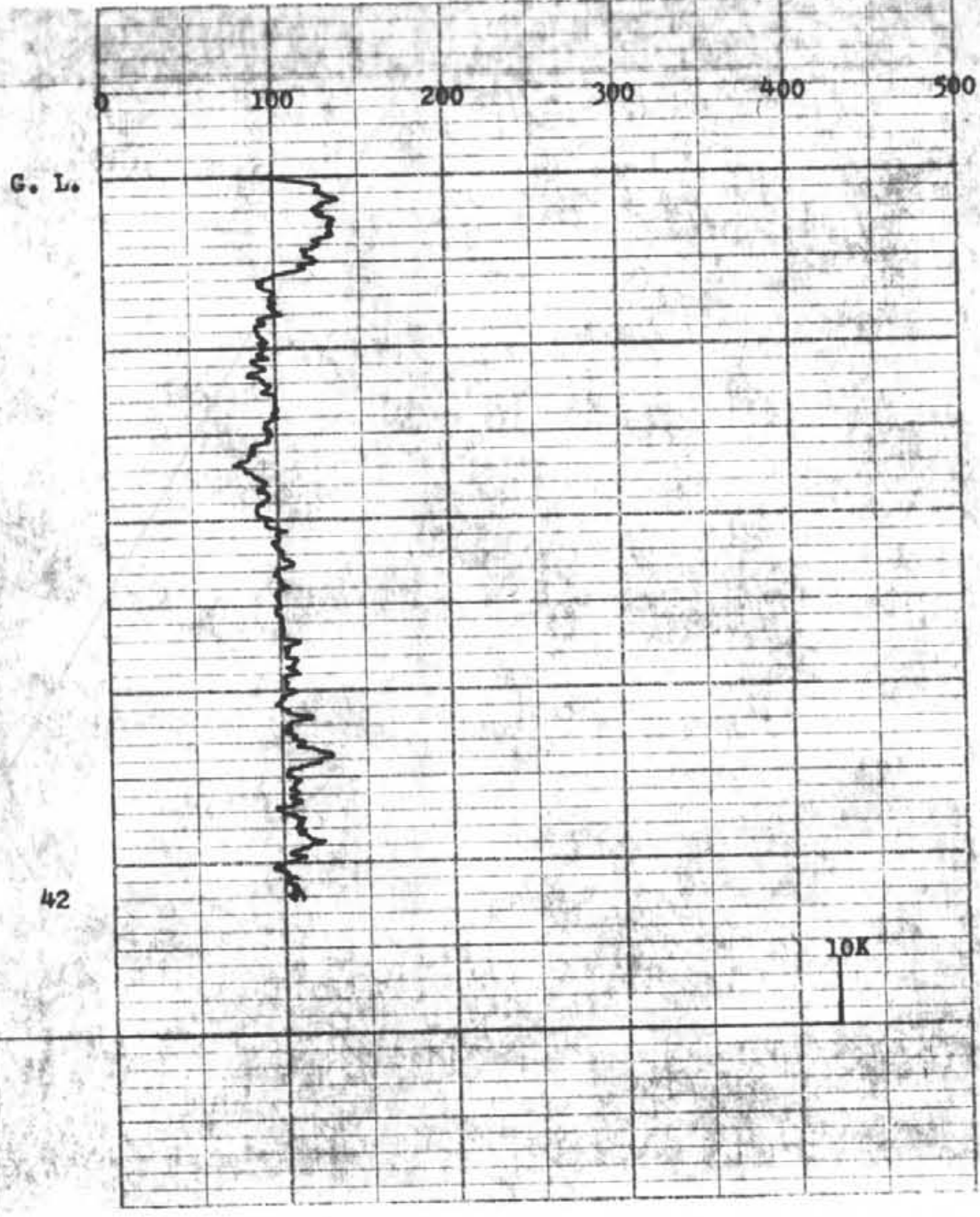
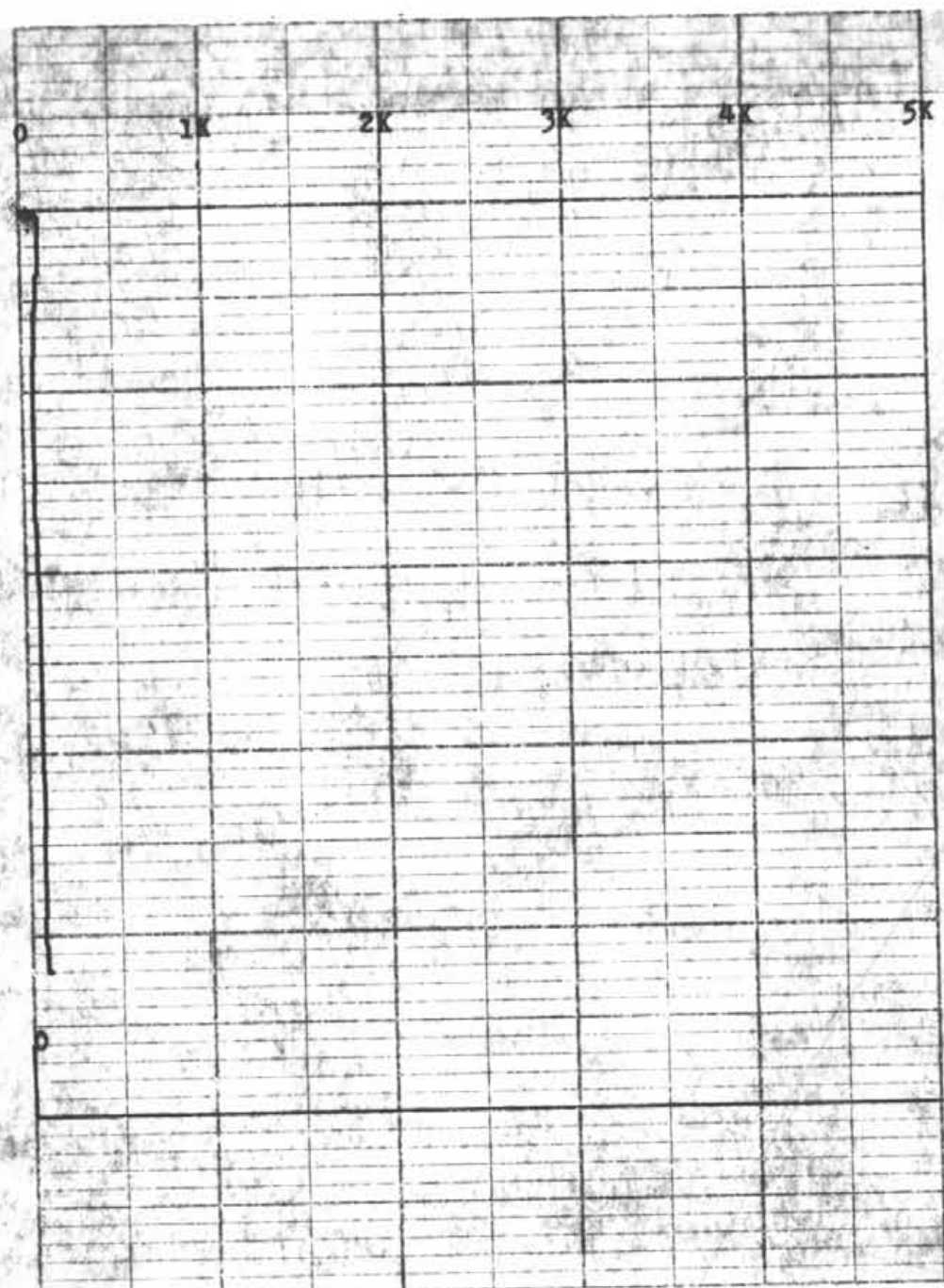
LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6640
MAP NO. part
1 of 2

DATE	Nov. 29, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	65'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	42'	TIME CONSTANT, SECONDS	1 & 2	SCALE, OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E. CALGARY ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 8

LOCATION Blizzard Property

PROVINCE B.C.

ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

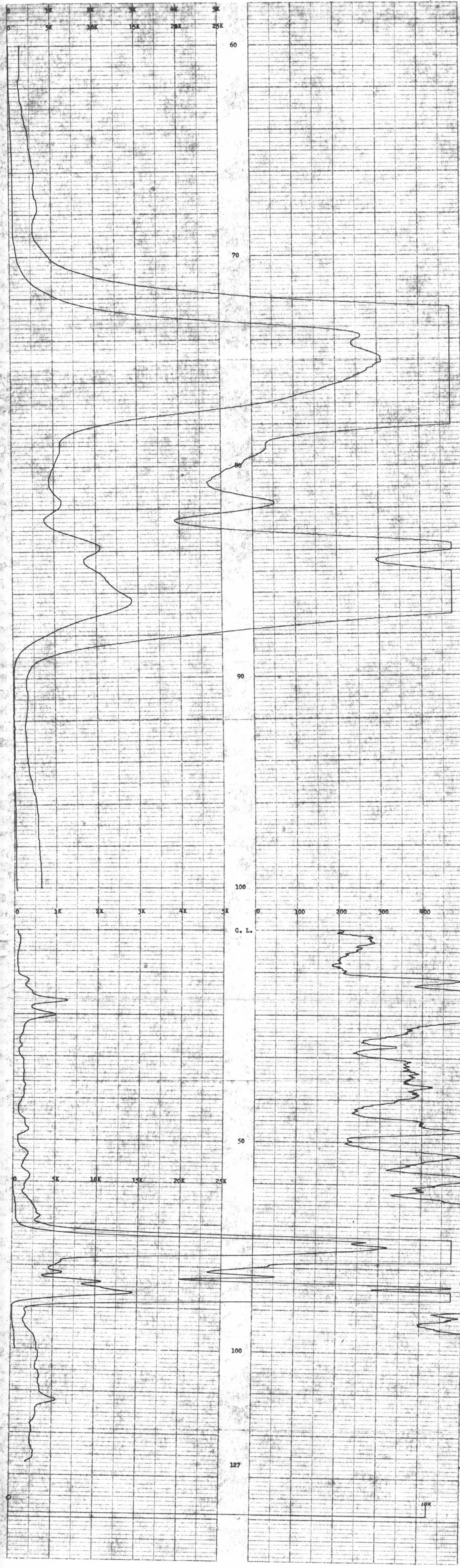
ASSESSMENT REPORT

NO. 6640

MAP NO. part

1 of 2

DATE	Nov. 25, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	140'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	127'	TIME CONSTANT SECONDS	2	SCALE OHMS/IN
ZERO DATUM	G. I.	RECORDER SCALE C.P.S./IN	As shown	S.P. SCALE MV/IN
FLUID LEVEL	G. I.	RECORDER ZERO	As shown	
HOLE DIAMETER	6 3/4"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY _____





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8

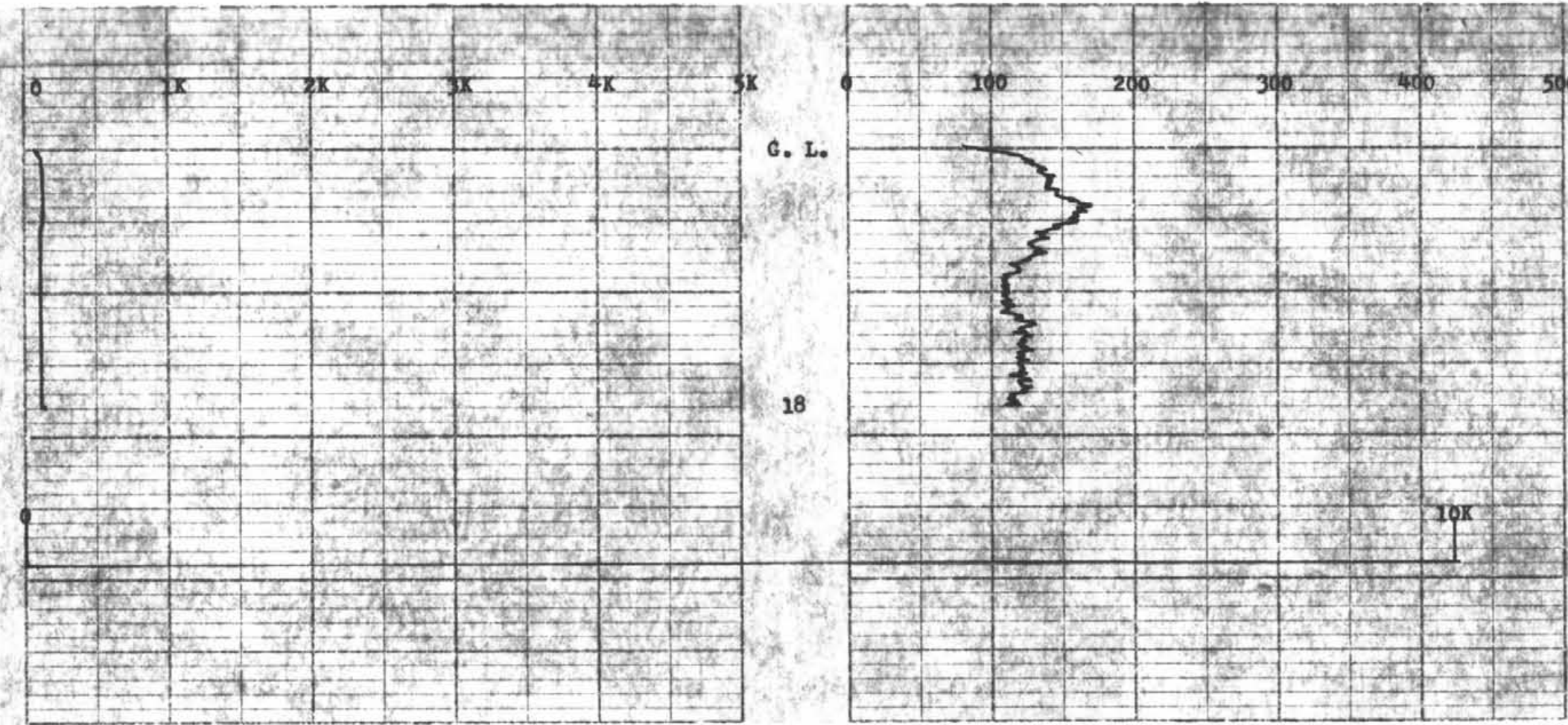


COMPANY NORCEN ENERGY RESOURCES LIMITED
 HOLE NUMBER OR NAME 77R-9
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____
 LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. 6640
 MAP NO. part

1 of 2

DATE	Nov. 28, 1977	TOOL MFG & S N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	23'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	18'	TIME CONSTANT SECONDS	1 & 2	SCALE OHMS IN
ZERO DATUM	G. L.	RECORDER SCALE P.P.S IN	1000 & 100	S.P. SCALE MV IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT MIN	10	RECORDED BY W.R. Davies
CASING LENGTH	N11	RECORDER DEPTH SCALE FT IN	10	WITNESSED BY





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123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED
 HOLE NUMBER OR NAME 10
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____
 LOG TYPE Natural Gamma

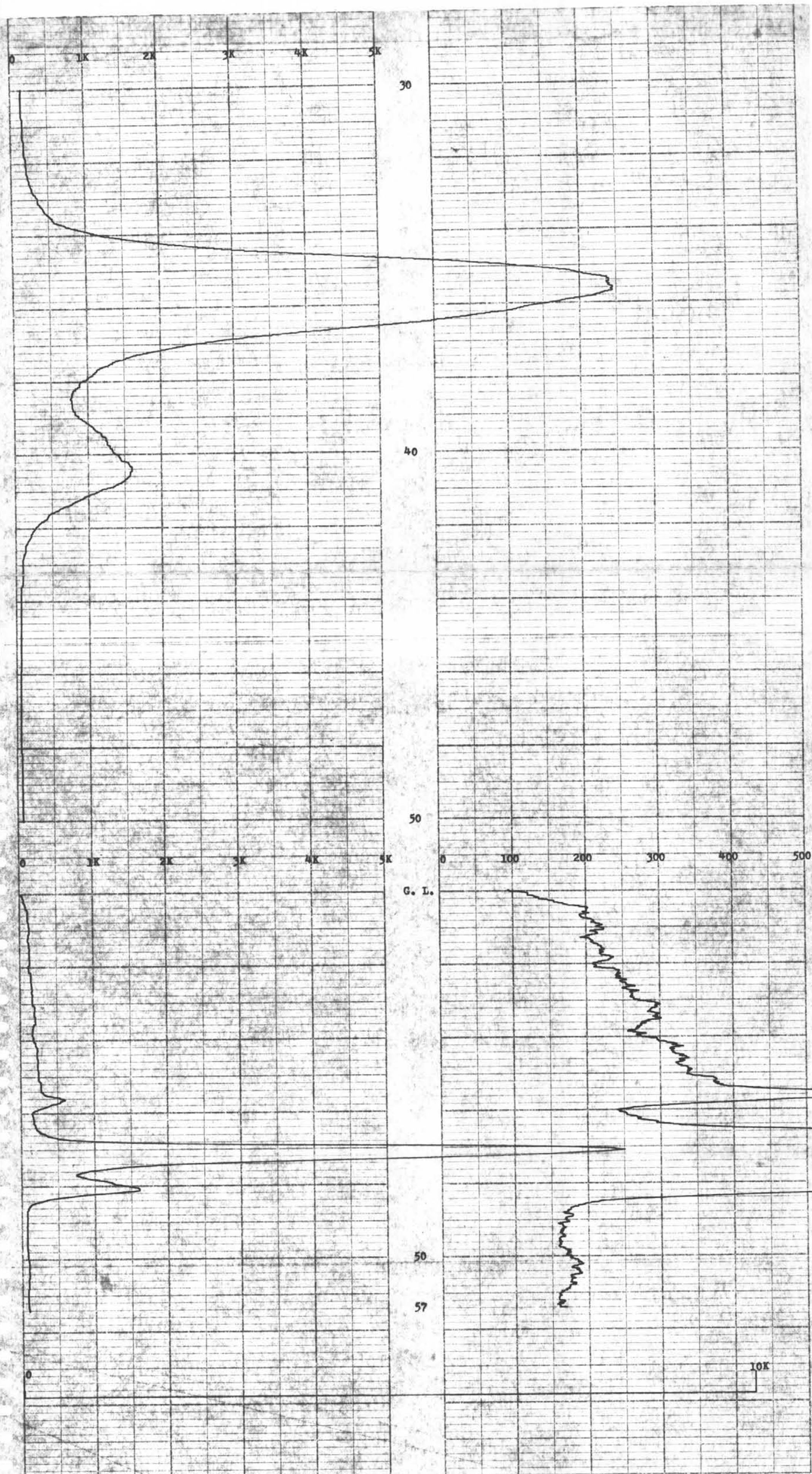
MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO. 6640
 MAP NO. part

1 of 2

DATE	Nov. 25, 1977	TOOL MFG & S.N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	64'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	57'	TIME CONSTANT, SECONDS	2	SCALE OHMS/IN
ZERO DATUM	G. I.	RECORDER SCALE, G.P.S./IN	As shown	S.P. SCALE MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 3/4"	LOGGING SPEED, FT./MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT./IN	10	WITNESSED BY





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123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 77 - R - 11

LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

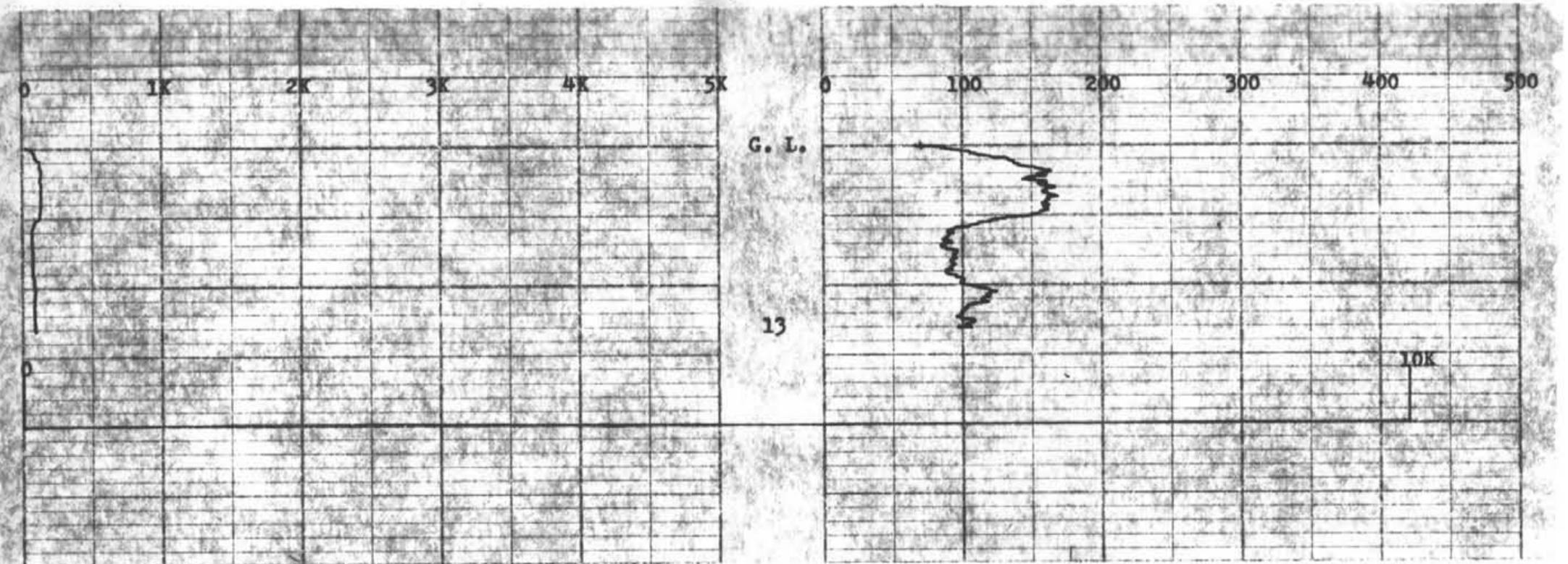
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. 6640

MAP NO. part

1062

DATE	Nov. 29, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO.	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	20'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	13'	TIME CONSTANT, SECONDS	1 & 2	SCALE, OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E. CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 12

LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

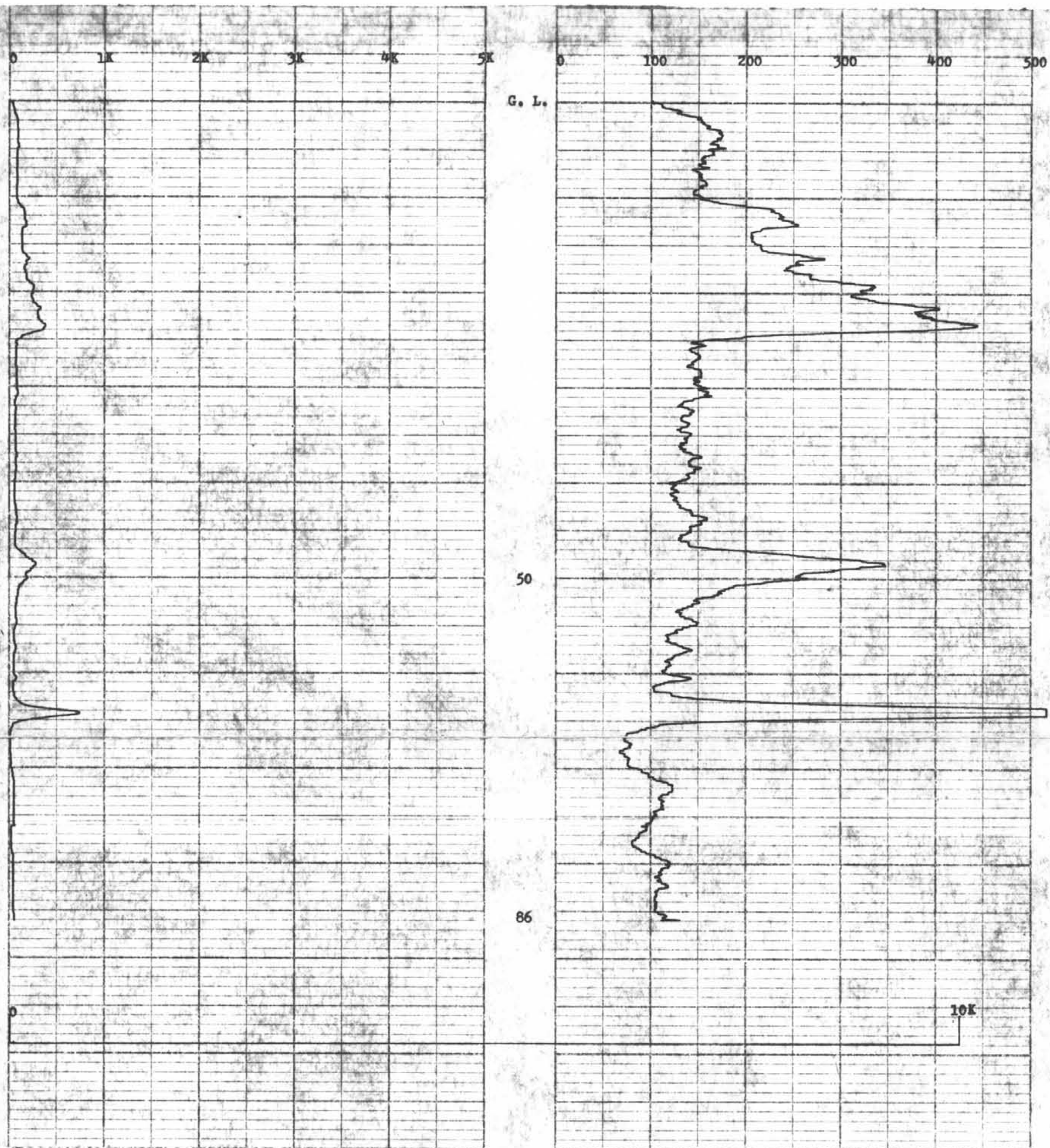
ASSESSMENT REPORT

NO. 6640

MAP NO. part

1 of 2

DATE	Nov. 25, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	96'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	86'	TIME CONSTANT, SECONDS	2	SCALE, OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S./IN	As shown	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 3/4"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Dacies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY





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123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 13

LOCATION Blizzard Property

PROVINCE E. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

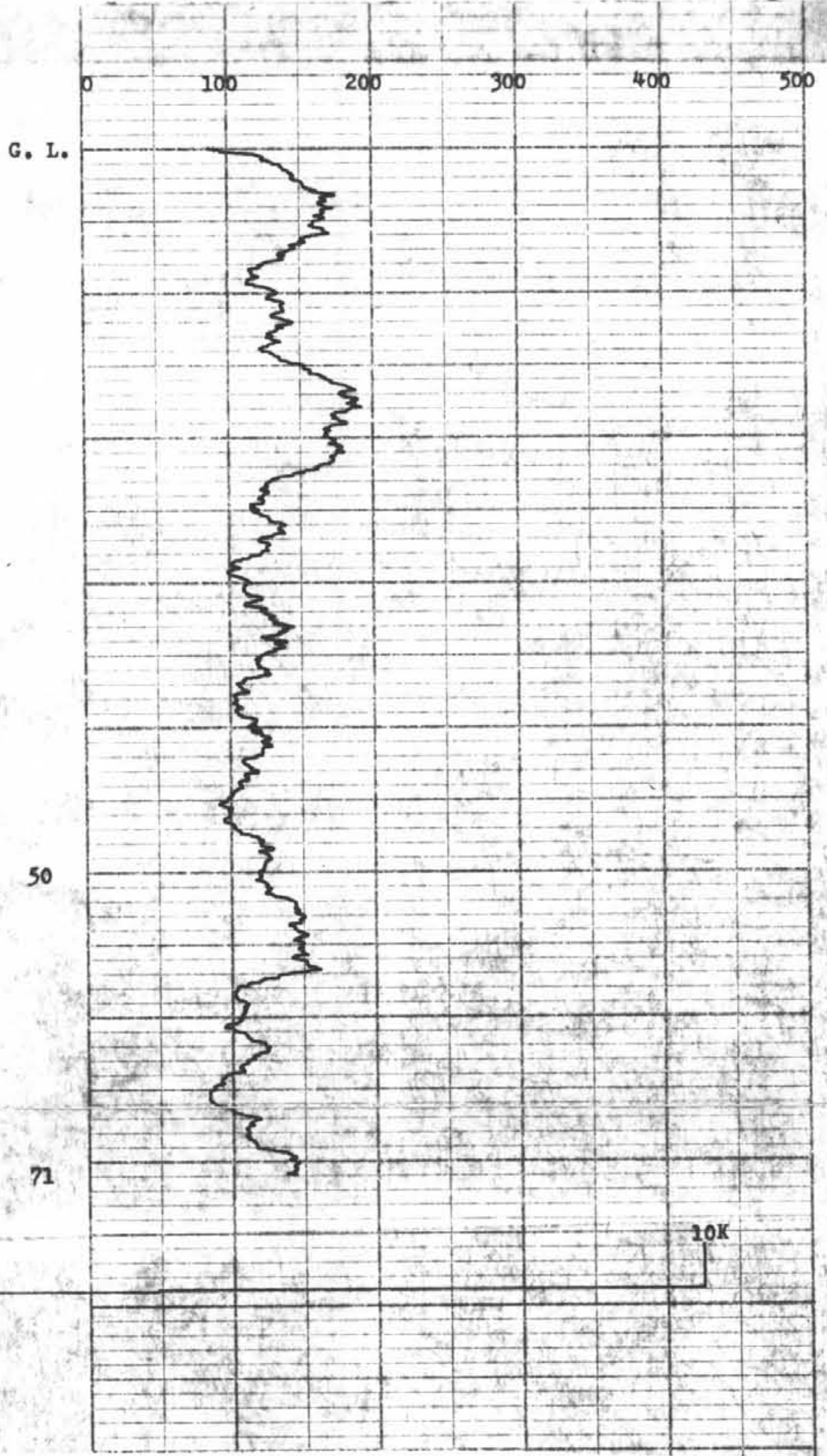
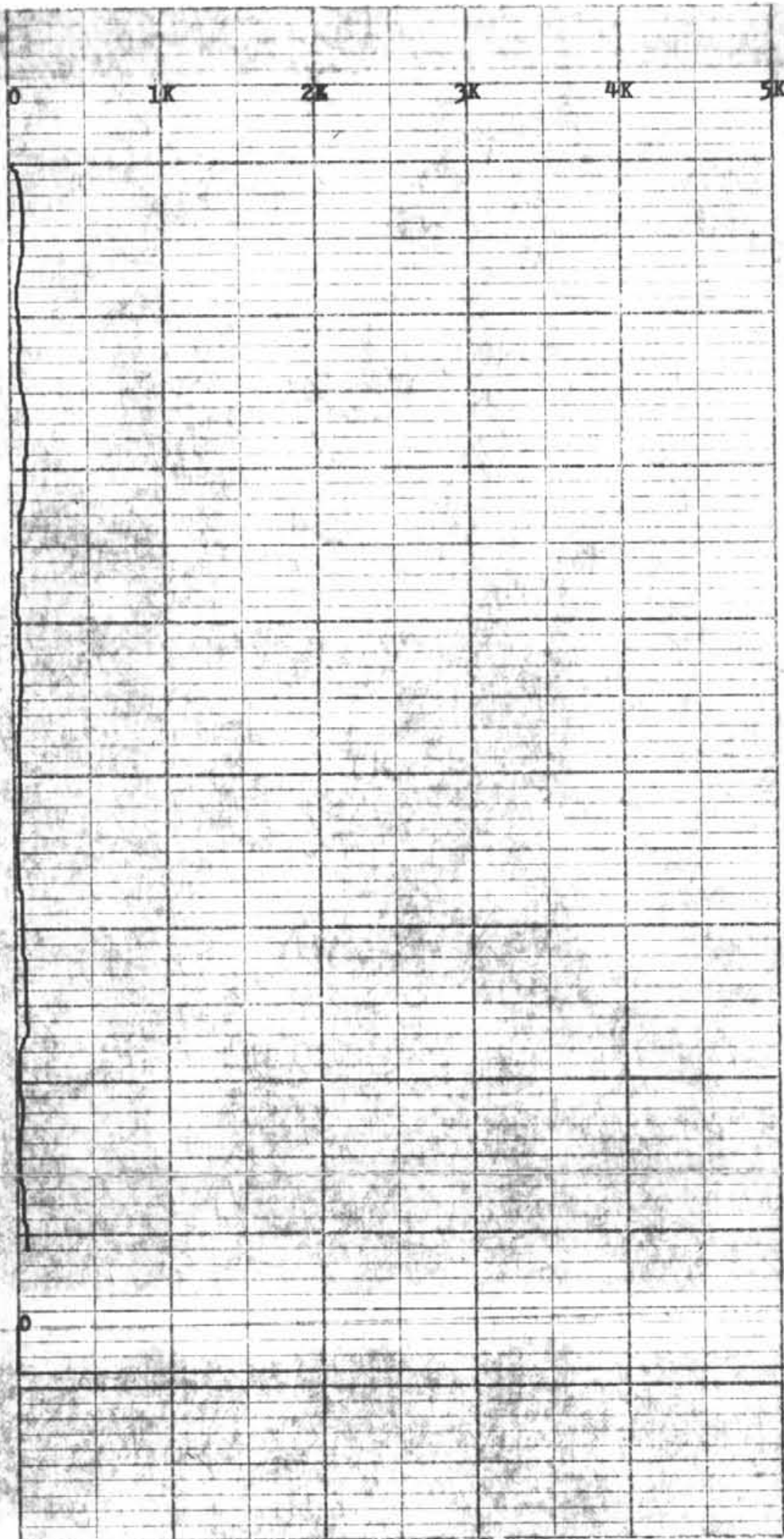
ASSESSMENT REPORT

NO. 6640

MAP NO. part

1 of 2

DATE	Nov. 25, 1977	TOOL MFG & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	76'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	71'	TIME CONSTANT, SECONDS	1 & 2	SCALE, OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/4"	LOGGING SPEED, FT./MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT./IN	10	WITNESSED BY





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123 LYNNBROOK PLACE S.E. CALGARY, ALBERTA T2C 1S8

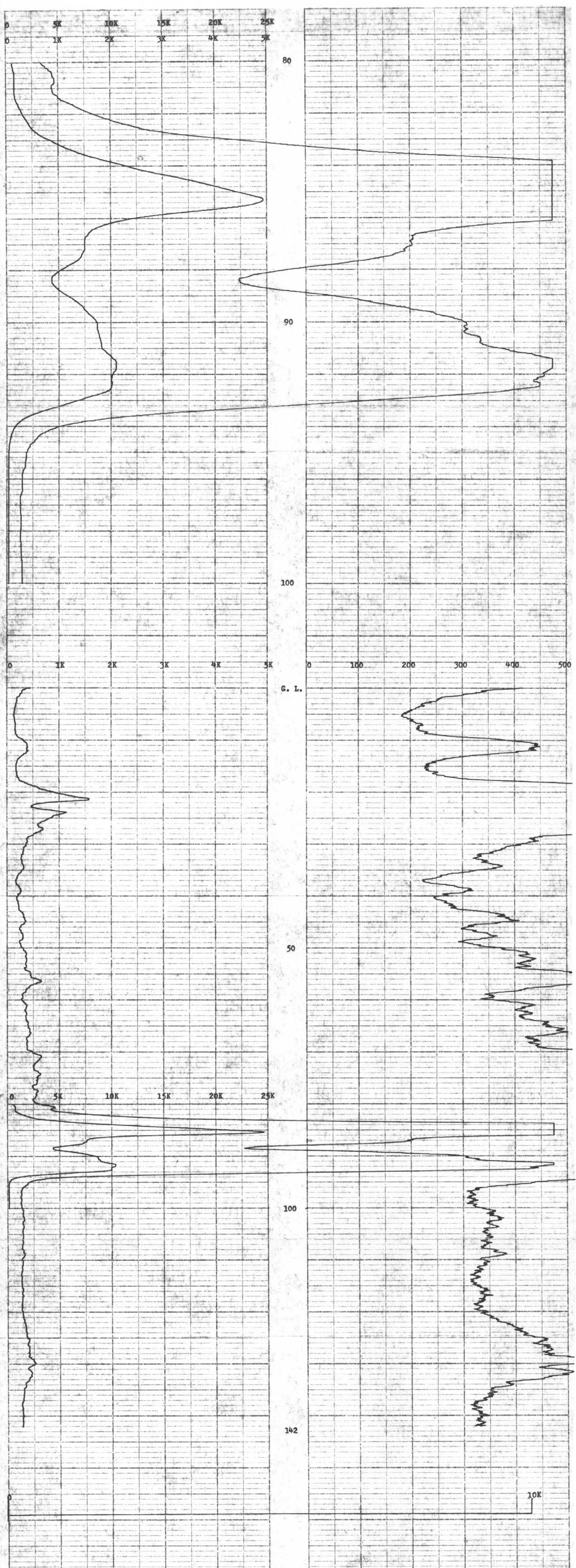


COMPANY NORCEN ENERGY RESOURCES LIMITED
 HOLE NUMBER OR NAME 77R - 14
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____
 LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 No. 6640
 MAP NO. part

1 of 2

DATE	Nov. 26, 1977	TOOL MFG & S.N.	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	150'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	142'	TIME CONSTANT SECONDS	1 & 2	SCALE OHMS IN
ZERO DATUM	G. L.	RECORDER SCALE C.P.S. IN	As shown	S.P. SCALE MV IN
FLUID LEVEL	G. L.	RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE FT/IN	10	WITNESSED BY _____





DATA PROBE LOGGING LTD.

123 LYNNBROOK PLACE S.E. CALGARY, ALBERTA T2C 1S8



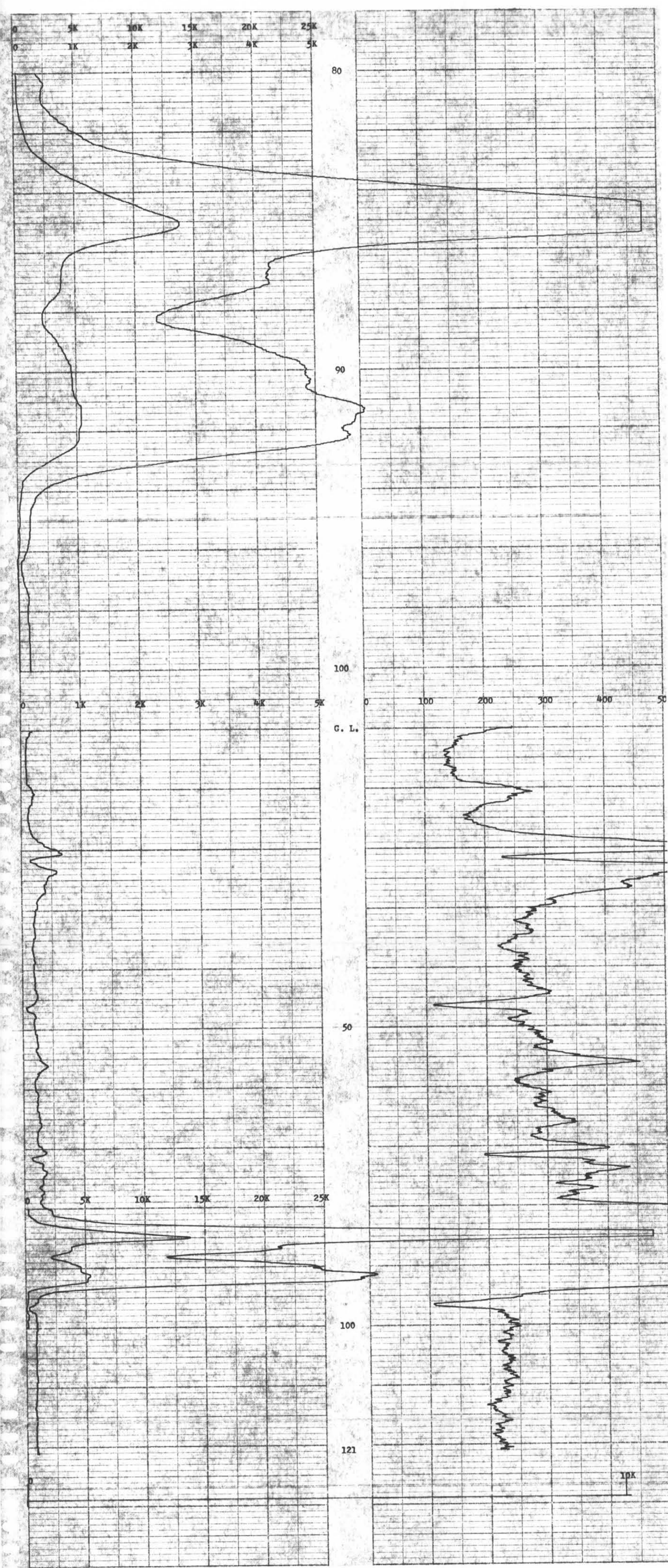
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 HOLE NUMBER OR NAME 77R - 14
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____
 LOG TYPE Natural Gamma

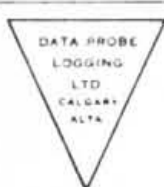
MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. 6640
 MAP NO. part

1 of 2

DATE	Nov. 26, 1977	TOOL MFG. & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	150'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	121'	TIME CONSTANT, SECONDS	1 & 2	SCALE OHMS-IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S. IN	As shown	S.P. SCALE, MV IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT. MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	0 - 121' *	RECORDER DEPTH SCALE, FT. IN	10	WITNESSED BY _____

* NOTE: Logged through 5/8" wall drill stem.





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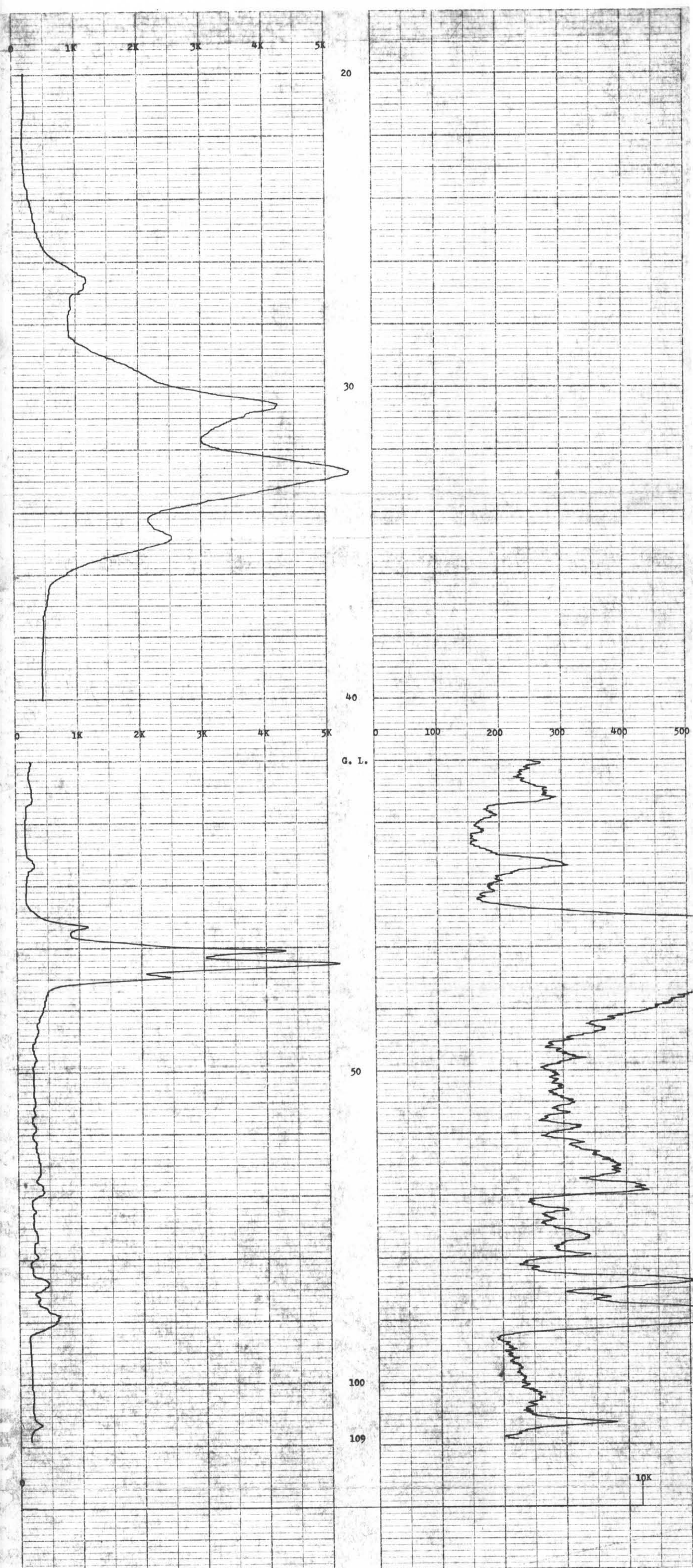


COMPANY NORCEN ENERGY RESOURCES LIMITED
 HOLE NUMBER OR NAME 77 - R - 15
 LOCATION Blizzard Property
 PROVINCE B. C. ELEVATION _____
 LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 No. 6640
 MAP NO. part

1 of 2

DATE	Nov. 29, 1977	TOOL MFG & S N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	120'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	100'	TIME CONSTANT SECONDS	1 & 2	SCALE OHMS/IN
ZERO DATUM	G. I.	RECORDER SCALE CPS/IN	1000 & 100	SP SCALE MV/IN
FLUID LEVEL	G. I.	RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE FT/IN	10	WITNESSED BY _____





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123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 77 - R - 16

LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

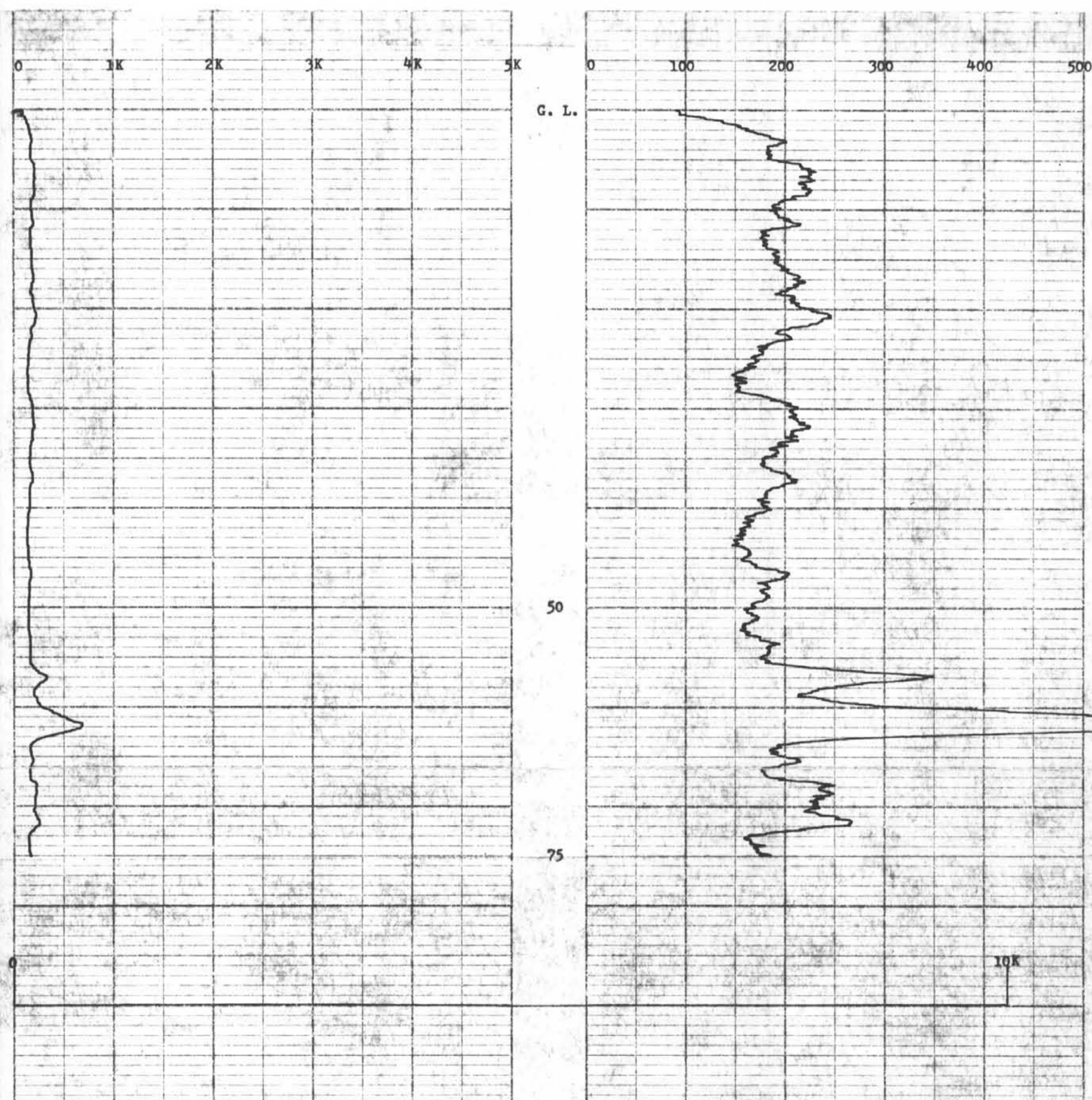
ASSESSMENT REPORT

NO. 6640

MAP NO. part

1 of 2

DATE	Nov. 30, 1977	TOOL MFG. & S.N.	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/2"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	77'	DETECTOR SIZE	3/4" X 3"	RESISTIVITY TYPE
LOGGED DEPTH	75'	TIME CONSTANT, SECONDS	1 & 2	SCALE OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL	G. I.	RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY





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123 LYNNBROOK PLACE S.E., CALGARY, ALBERTA T2C 1S8



COMPANY NORCEN ENERGY RESOURCES LIMITED

HOLE NUMBER OR NAME 77 - R - 17

LOCATION Blizzard Property

PROVINCE B. C. ELEVATION _____

LOG TYPE Natural Gamma

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO. 6640

MAP NO. Part 1

of 2

DATE	Nov. 30, 1977	TOOL MFG. & S/N	Well Recon. #314	SOURCE TYPE
LOGGING UNIT NO	5	TOOL DIAMETER	1 1/4"	SOURCE STRENGTH
RUN NO	1	DETECTOR TYPE	Scint.	SOURCE SPACING
DRILLED DEPTH	70'	DETECTOR SIZE	3/4" x 3"	RESISTIVITY TYPE
LOGGED DEPTH	68'	TIME CONSTANT, SECONDS	1 & 2	SCALE, OHMS/IN
ZERO DATUM	G. L.	RECORDER SCALE, C.P.S./IN	1000 & 100	S.P. SCALE, MV/IN
FLUID LEVEL		RECORDER ZERO	As shown	
HOLE DIAMETER	6 1/2"	LOGGING SPEED, FT/MIN	10	RECORDED BY <u>W.R. Davies</u>
CASING LENGTH	N11	RECORDER DEPTH SCALE, FT/IN	10	WITNESSED BY

