

GEOCHEMICAL SURVEY AND
PERCUSSION DRILLING PROJECT,
MORAIG - SULTAN - SHARON Fr. - SUE Fr. GROUP
GREENWOOD MINING DIVISION,
BRITISH COLUMBIA

Claims: Moraig (233), Sultan (1713), Sharon Fraction (1397),
Sue Fraction (1785)

Location: Lassie Lake Area, 24.5 km northeast of Beaverdell,
British Columbia

Latitude: 49°36'N

Longitude 118°55'W

Owner and Operator: Norcen Energy Resources Limited

Dates Worked: August 25, 1979 to September 27, 1979
May 25, 1979 to June 30, 1979

February 11, 1980

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7822
NO. _____

A. T. Turner, P.Geol.
D. A. Sawyer, P. Geol.
R. Cann

part 2
of 3

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1. Introduction

The Moraig - Sultan - Sharon Fraction - Sue Fraction claim group form part of the Blizzard Special Project area (The Blizzard Property) which is being explored by a joint venture consisting of Norcen Energy Resources Limited (Manager-Operator), Campbell Chibougamau Mines Limited, E & B Explorations Ltd., Ontario Hydro and Lacana Mining Corporation.

2. Location and Access

The Blizzard Property is situated 53 kilometres southeast of Kelowna, south-central British Columbia (NTS: 82E/10W) at longitude 118°54'W, latitude 49°37'N (Figure 1).

Access to the property from Kelowna is south via Highway 33 to the Trapping Creek logging road and then north along the Trapping Creek, Copperkettle and Lassie Lake forestry roads. Distance by this route is approximately 80 km. An alternate route from Highway 33 is via the Big White resort road and then south along the Big White - Trapping Creek Link Road to Trapping Creek. The property can also be reached from the south via the Beaver Creek Road, which runs between Beaverdell and Christian Valley, and connects with the Lassie Lake Road (Figure 2).

3. Physiography

Physiographically, the Blizzard Property is located near the eastern boundary of the Okanagan Highland division of the Interior Plateau. Topography within this region is generally gently rolling except for local steep cliffs formed by the Plateau basalts, such as a cap the Blizzard deposit. The plateau is deeply incized by major stream and river valleys. Highest elevation on the property is about 1430 metres, with relief approximately 150 metres.

Almost 75 percent of the property has been logged but several blocks of ground have been reseeded by the British Columbia Forest Service. No land within the property is privately owned; although timber rights on Tree Farm License 8 covering about 30 percent of the property are held by Pope and Talbot Ltd. of Midway. Any cutting within this license must be approved by Pope and Talbot and carried out under the supervision of the British Columbia Forest Service in Beaverdell.

4. Economic Considerations

Beaverdell, with a population of almost 400, is the closest supply centre to the property and is located 12 km south of the Trapping Creek road junction on Highway 33 (Figure 2). The majority of Beaverdell's working inhabitants are employed either at Teck Corporations Highland - Bell silver mine or at Pope and Talbot's logging operation.

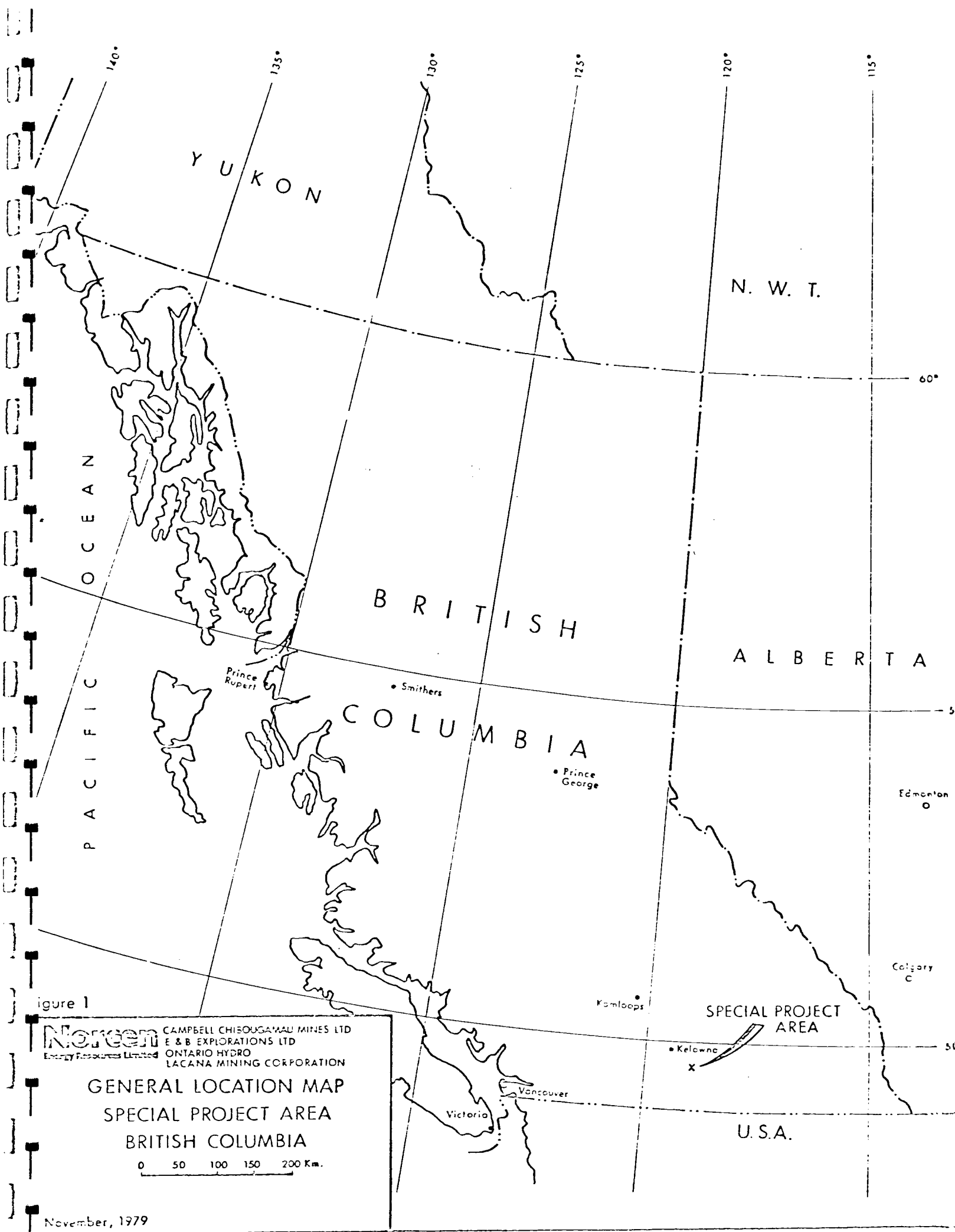
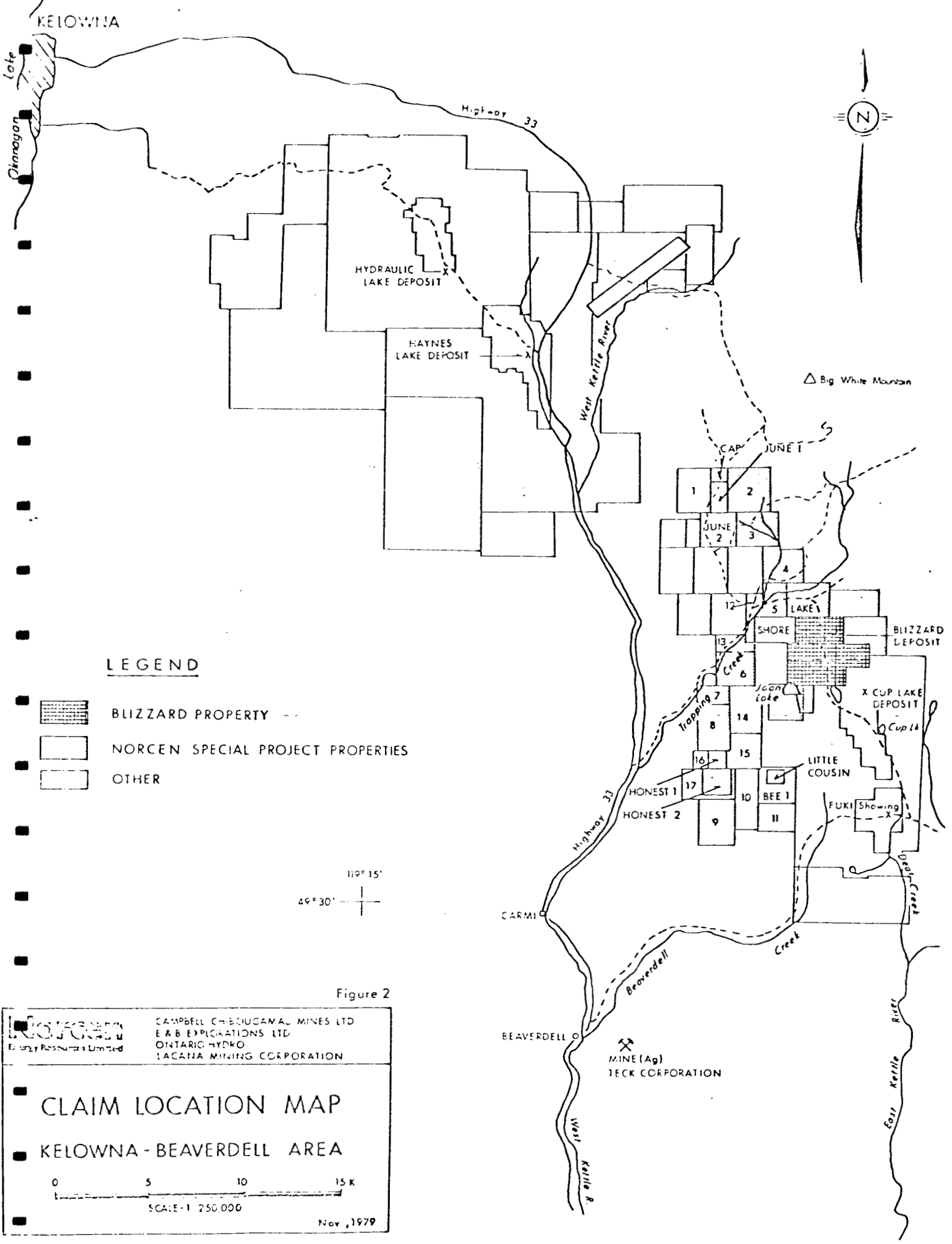


Figure 1




Norcen CAMPBELL CHISOUGAMAU MINES LTD
 Energy Resources Limited E & B EXPLORATIONS LTD
 ONTARIO HYDRO
 LACANA MINING CORPORATION

**GENERAL LOCATION MAP
 SPECIAL PROJECT AREA
 BRITISH COLUMBIA**

0 50 100 150 200 Km.



LEGEND

-  BLIZZARD PROPERTY
-  NORCEN SPECIAL PROJECT PROPERTIES
-  OTHER

119° 15'
49° 30'

Figure 2

NORCEN
Energy Resources Limited

CAMPBELL-CHIBOUGAMAU MINES LTD
E & B EXPLORATIONS LTD
ONTARIO HYDRO
LACANA MINING CORPORATION


CLAIM LOCATION MAP

KELOWNA - BEAVERDELL AREA

0 5 10 15 K

SCALE - 1:250,000

Nov, 1979

 MINE (Ag)
TECK CORPORATION

Until recently, Beaverdell was serviced by the Canadian Pacific Railway running between Penticton and Rock Creek. This section of the railway is now abandoned and the town is now serviced by truck. The B.C. Forest Service maintains a gravel airstrip just north of Beaverdell.

Kelowna is serviced by regularly scheduled Pacific Western flights from Vancouver and Calgary. A Canadian Pacific - Canadian National railway spur line connects Kelowna with the main CPR tracks at Vernon, 45 km to the north.

5. Ownership and Claim Status

In early February 1976 Lacana Mining Corporation staked the Blizzard (20 units), Patricia (10 units), and Moraig (15 units). These claims, together with the Beverly claim (18 units) staked in June 1976, form the Blizzard property. Norcen optioned the Blizzard property from Lacana on December 10, 1976. The claims were legally transferred under the Bill of Sale statement dated September 15, 1977.

In 1977 the Jan 1-3 claims were staked to cover a fraction between the Patricia and Beverly claims. In 1978 a legal survey of the claims discovered two more fractions which were covered by the Sharon and Cari fractional claims.

Current claim status is shown in Table 1 and claim locations shown on Map 1.

6. Previous Exploration on the Blizzard Property

The Blizzard Property was staked in February and June 1976 to cover a favourable geological trend northwest of the Donen mineral claims which cover the Cup Lake deposit. Discovery in June, 1976 of Miocene basalt, similar to that overlying the Cup Lake deposit resulted in a program of gridding, geological mapping, scintillometer surveys, soil, water, silt and radon gas geochemical surveys. Anomalous stream water and sediment results were obtained from a seep southeast of the basalt cap. In July, Lacana drilled seven percussion holes totalling 421 metres across the cap, two of which intersected uranium mineralization. A further six percussion holes totalling 439 metres were drilled in October, of which three holes intersected significant uranium values.

Norcen Energy Resources Limited optioned the property from Lacana on December 10, 1976. In 1977 Norcen drilled 33 combined percussion and diamond drill holes totalling 2040 metres. The radiometric logs were used to calculate an inferred and indicated reserve estimate of 890 000 tonnes grading 0.088% U₃O₈. During late 1977, nineteen rotary holes totalling 514 metres were drilled in overburden covered areas on the property. Seven of these holes drilled

TABLE 1. BLIZZARD CLAIM GROUP STATUS

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Blizzard	232	20	February 24, 1976	February 24, 1988
Beverly	377	18	June 11, 1976	June 11, 1988
Patricia	234	10	February 24, 1976	February 24, 1989
Moraig	233	15	February 24, 1976	February 24, 1989
Jan 1	848	1	August 22, 1977	August 22, 1990
Jan 2	849	1	August 22, 1977	August 22, 1990
Jan 3	850	1	August 22, 1977	August 22, 1990
Sharon fr.	1 397	—	September 28, 1978	September 28, 1989
Cari fr.	1 396	—	September 28, 1978	September 28, 1989
Sultan	1 713	16	August 10, 1979	August 10, 1980
Sue Fraction	1 785	—	September 26, 1979	Sepetember 26, 1980

to the northwest and southeast of the cap intersected significant uranium mineralization.

A major exploration program was conducted between March and December 1978. During this period 294 HQ diamond drill holes totalling 15 403 m and 46 rotary-percussion holes totalling 1 768 metres were drilled.

The most recent estimate of reserves based on engineering feasibility studies, is 2 208 000 tonnes containing 4 736 000 kilograms of U_3O_8 at an average grade of 0.2145% U_3O_8 .

7. Geology and Mineralization

Regional Geology

Regional geology, shown in Figure 3, is compiled mainly from work by Christopher (1978) with additions from Little (1957) and Okulitch (1979).

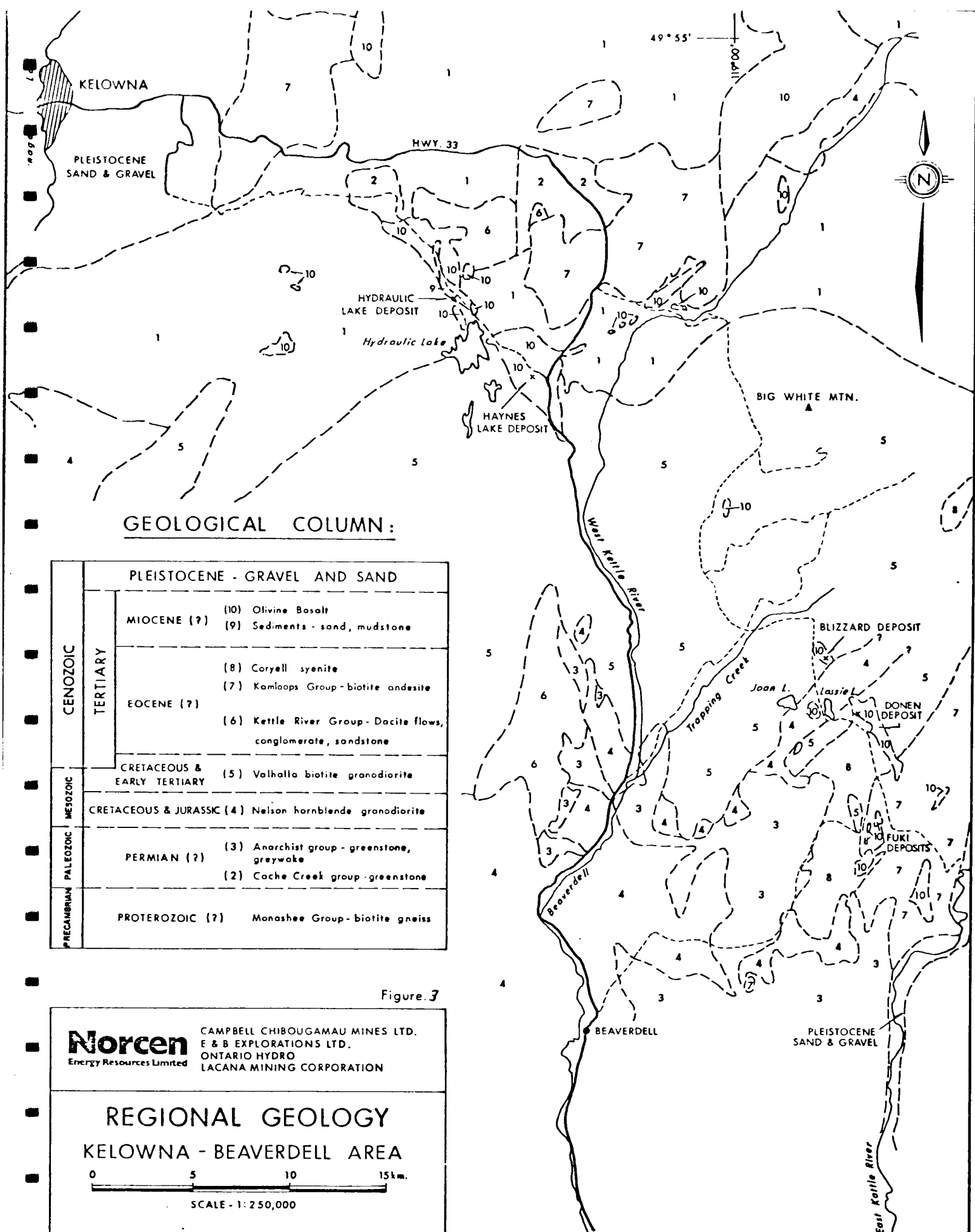
Oldest rocks in the area are Proterozoic Monashee biotite gneisses (Unit 1). The Permian (?) Cache Creek Group (Unit 2) is composed mainly of greenstone in this map area. Meta-volcanic and metasedimentary rocks of Permian (?) age form the Anarchist Group (Unit 3). Low background readings of less than 2000 counts per minute are characteristic of this unit. Anarchist Group rocks commonly form pendants in Cretaceous and Early Tertiary Valhalla quartz monzonites and Jurassic or Cretaceous Nelson quartz diorite or granodiorite (Units 4 and 5).

Eocene Kettle River Formation (Unit 6) consists largely of dacitic and rhyolitic tuffs and flows within the area shown. Locally, conglomerate, sandstone and siltstone interfinger with the volcanic rocks. Siltstone beds within this unit occasionally display anomalous radioactivity. Overlying this formation are andesitic and trachytic rocks of the Kamloops Group (Unit 7). Trachytic rocks in this unit often have high background radioactivity. At least partly coeval with this group are Croyell syenites (Unit 8).

Uranium mineralization in this area occurs in loosely consolidated fluvial Miocene sediments (Unit 9) which have been protected from erosion by a capping of Miocene (?) or Pliocene (?) olivine basalt (Unit 10). Northwesterly trending channels are the only ones known to contain uranium mineralization at present and are probably fault controlled.

Geology of the Blizzard Property

Geology is shown on the geological compilation Map 2. Oldest rocks on the property are the Valhalla and Nelson plutonic rocks. Valhalla rocks are typically a light grey, porphyritic, medium to coarse grained biotite granodiorite. Nelson rocks consist of medium to coarse grained granitic rocks varying from quartz monzonite to quartz diorite in composition. These rocks are generally foliated and chloritized. Disseminated pyrite mineralization associated with strong chloritization has been observed locally.



GEOLOGICAL COLUMN:

CENOZOIC	TERTIARY	PLEISTOCENE - GRAVEL AND SAND	
		MIOCENE (?)	(10) Olivine Basalt (9) Sediments - sand, mudstone
		EOCENE (?)	(8) Coryell syenite (7) Kamloops Group - biotite andesite
			(6) Kettle River Group - Dacite flows, conglomerate, sandstone
MESOZOIC		CRETACEOUS & EARLY TERTIARY	(5) Valhalla biotite granodiorite
		CRETACEOUS & JURASSIC	(4) Nelson hornblende granodiorite
PALEOZOIC		PERMIAN (?)	(3) Anarchist group - greenstone, greywacke (2) Cache Creek group - greenstone
	PRECAMBRIAN	PROTEROZOIC (?)	Monashee Group - biotite gneiss

Figure 3

Norcen Energy Resources Limited

CAMPBELL CHIBOUGAMAU MINES LTD.
E & B EXPLORATIONS LTD.
ONTARIO HYDRO
LACANA MINING CORPORATION

REGIONAL GEOLOGY
KELOWNA - BEAVERDELL AREA

0 5 10 15 km.

SCALE - 1:250,000

NOTE: GEOLOGY AFTER CHRISTOPHER 1978, LITTLE 1957, OKOLITCH 1979

Intruding these plutonic rocks are a number of dykes which have been classified as felsic, intermediate and mafic. Buff weathering, dacitic felsic dykes are common in the west half of the Beverly and Patricia claims where they generally trend at 30 degrees. Intermediate, medium grey dykes consist of biotite and hornblende phenocrysts in a microcrystalline groundmass. Dark grey, mafic dykes are composed of plagioclase phenocrysts and clots of hornblende and biotite in a fine-grained matrix.

Near the southern boundary of an intermediate dyke a poorly exposed body of amphibolite occurs. This occurrence in the northeast section of the Moraig claims is the only known exposure on the property.

Near the southern boundary of an intermediate dyke a poorly exposed body of amphibolite occurs. This occurrence in the northeast section of the Moraig claim is the only known exposure on the property.

Feldspar, quartz, biotite, muscovite pegmatites are common in Valhalla rocks in the northeast section of the Beverly claim and underlying the ore zone.

Unconformably overlying these Cretaceous basement rocks, and occupying a sinusoidal paleochannel eroded into the basement, is a sequence of loosely consolidated Miocene sediments. These sediments host the bulk of the uranium mineralization discovered to date. This channel has an average slope of 1.5 degrees southeast. The length of the channel is approximately 1900 metres and the width ranges from 80 metres at the south end to 450 metres toward the centre. Sedimentary rocks in the channel can be divided into five lithofacies: conglomerate, clean sandstone, carbonaceous sandstone, sandstone-mudstone, and carbonaceous mudstone.

The sandstones and conglomerates are immature and appear to be locally derived from underlying granitic rocks and are of similar composition. Highest grade uranium mineralization occurs in the clean sandstones, probably because of the high porosity of this unit. Grey carbonaceous sandstones often occur interbedded with grey or brown carbonaceous mudstone. Where thinly interbedded the unit is called sandstone-mudstone.

Overlying these fluvial sediments for 1200 metres is an ellipsoidal cap of olivine Miocene basalt. Uranium mineralization locally occurs in highly altered vesicular basalt at the sediment basalt unconformity. In the northwest corner of the deposit a mushroom shaped diatreme intrudes the basement rock, Miocene sediments and the lower part of the basalt cap. The diatreme consists of fragments of granitic, dacitic, and basaltic rocks in a tuffaceous, silty, clayey or sandy matrix. Significant intersections of uranium mineralization occur in the diatreme.

Uranium Mineralization

Uranium in loosely consolidated Miocene sediments occurs mainly as the minerals meta-autunite and saleeite. In mudstone uranium probably occurs as organic-uranium complexes. Within clean sandstone meta-autunite and saleeite occur as individual crystals and crystal aggregates and as surface coatings on limonite concretions. Fine grains of meta-autunite and saleeite occur in carbonaceous sandstones. Within the diatreme uranium occurs as meta-autunite, saleeite and in a dark sooty mineral.

8. 1979 Exploration Program

The 1979 exploration program on the Moraig - Sultan - Sharon Fraction - Sue Fraction claim group was carried out intermittently between May 26 and September 12, 1979, and consisted of surveying, radon surveys, soil geochemical surveys and percussion drilling.

The original baseline of the survey grid, which was established over the Blizzard deposit in 1978 was extended 150 metres to the northwest and 1020 metres to the southeast. These grid extensions are referred to as the north Blizzard grid and the south Blizzard grid (See Map 2). The surveying was carried out by McWilliam, Whyte, Goble and Associates, British Columbia Land Surveyors from Kamloops, B.C. Surveyed crosslines were marked at 300 metre spacing along the baseline. All intermediate crosslines were established by hip-chain and compass. On the south Blizzard Grid which straddles the Moraig - Patricia - Blizzard claim boundaries, soil samples were collected along the crosslines at 60 metre intervals and radon in soils were measured every 30 metres (See Map 3) using an EDA Instruments Inc. portable radon detector model RD 200.

This instrument detects radon by counting alpha particles emitted during the disintegration of Radon 222 to Polonium 218. Atmospheric background readings of one minute interval and soil gas readings of five minute interval were taken at each station. Soil gas samples were obtained by driving a metal rod approximately 50 cm into the soil and then inserting a 30 cm steel probe into the hole made by the rod. This was then sealed with a rubber plug and gas pumped from the hole into the detector. Radon gas measurements in counts per minute were obtained by subtracting the background readings from one-fifth the soil gas reading. A total of 32 soil samples (See Map 4) were collected from the B Horizon (where present) and sent to Loring Laboratories Limited in Calgary. The analytical method and assay certificates are compiled in the Appendix. Seventy one radon readings were measured (See Map 3).

Radon measurements and soil samples were also taken from the Moraig Grid in the south central portion of the Moraig claim in an attempt to evaluate the area north of the basalt cap on the Donen 361 claim. (See Maps 5 and 6)

A 23 hole percussion drilling program totalling 542.52 metres carried out between August 17 and September 13 on the Moraig claim portion of the south Blizzard and Moraig grids.

Drilling was done by Tonto Drilling Ltd. of Kamloops, B.C. using a truck mounted Atlas - Copco drill which drilled 5 cm (2 inch) holes. Holes were drilled using air unless water was encountered when drilling, as was generally the

case when drilling thick overburden or Miocene sediments, in which case when drilling thick overburden or Miocene sediments, in which case water was used. Cuttings were collected in continuous 1.5 m (5 feet) intervals and placed in plastic sample bags by the drillers. These were visually examined and scanned with a McPhar TV-1A spectrometer by the geologist as collected at the drill site. A second examination using a binocular microscope was conducted where further detail was required. Representative samples were taken from each 1.5 m sample and are stored at the Lassie Lake camp. Cuttings suspected of being Miocene sediments, those showing radioactivity greater than twice background, and those containing autunite were sent for uranium assay to Loring Laboratories Ltd., Calgary (analytical method and assay certificates are in the appendix). All holes were cemented after completion.

A summary of the results of the drilling program on the Moraig claim are compiled in Table 2 and detailed logs are included in the appendix. The drill hole locations are shown on Maps 2 and 7.

TABLE 3 PERCUSSION DRILL HOLE LOG SUMMARY

Hole Number (79-P-)	Overburden Contact (m)	Miocene Sediment Basement Contact (m)	Miocene Sediment Thickness (m)	Basement Elevation (m)	Total Depth (m)	Collar Elevation (m)	Collar Coord.
1	5.2	—	0	1325	28.95	1334.87	2046.49N, 282.39W
2	—	5.5	5.5	1315.5	12.19	1319.59	2037.72N, 210.83W
3	4.6	12.8	8.2	1309	18.29	1321.37	2039.85N, 125.41W
4	4.6	7.6	3.0	1308.5	12.19	1315.80	2034.83N, 56.67W
5	3.0	—	0	1311	12.19	1313.57	2037.17N, 2.79W
6	1.5	—	0	1308.5	13.72	1310.00	2042.55N, 62.05E
7	1.5	—	0	1304.5	12.19	1305.94	2040.30N, 114.80E
8	1.5	—	0	1299.5	18.29	1300.90	2041.57N, 179.75E
9	4.6	—	0	1289.5	12.19	1293.28	1919.54N, 180.85E
10	3.0	—	0	1293	18.29	1299.12	1921.37N, 117.33E
11	1.5	—	0	1299.5	12.19	1300.12	1919.16N, 58.42E
12	1.5	—	0	1303.5	12.19	1304.82	1920.44N, 2.09W
13	2.1	—	0	1306	12.19	1307.14	1921.48N, 62.22W
14	—	8.2	8.2	1301	15.20	1309.03	1925.77N, 122.24W
15	6.1	—	0	1302	12.19	1308.98	1925.26N, 180.12W
16	4.6	21.3	16.7	1296.5	27.43	1316.72	1915.99N, 239.80W
17	0.3	—	0	1321.5	9.14	1321.42	1911.44N, 309.19W
18	3.4	—	0	1305.5	9.14	1309.08	1744.49N, 462.24W
19	1.8	—	0	1302	9.14	1303.38	1744.45N, 392.91W
20	4.0	—	0	1296	9.14	1299.20	1737.76N, 335.35W
21	4.6	—	0	1292.5	12.19	1296.36	1744.68N, 273.22W
22	3.7	—	0	1289.5	12.19	1293.58	1745.09N, 275.40W
23	3.7	—	0	1288.5	12.19	1291.84	1746.81N, 157.06W
24	1.8	—	0	1291	12.19	1292.73	1571.75N, 311.14W
25	3.4	—	0	1292.5	10.67	1295.89	1570.18N, 364.89W
26	4.3	—	0	1293.5	12.19	1297.93	1571.15N, 422.03W
27	1.5	—	0	1300.5	10.67	1303.30	1564.67N, 492.52W
28	0.9	—	0	1305	9.14	1305.45	1562.88N, 544.04W
29	6.1	—	0	1301	12.19	1305.23	1561.74N, 604.35W
30	25.9	—	—	1304	45.72	1326.93	—
31	24.4	—	—	1306.5	33.53	1329.86	—
32	38.1	—	—	1299	48.77	1334.05	—
33	7.0	—	—	1338	15.24	1338.86	—
34	9.1	—	—	1336	18.29	1338.78	—
35	7.6	—	—	1337.5	12.19	1338.96	—

TABLE 2 Continued

Hole Number (79-P-)	Overburden Contact (m)	Miocene Sediment Basement Contact (m)	Miocene Sediment Thickness (m)	Basement Elevation (m)	Total Depth (m)	Collar Elevation (m)	Collar Coord.
36	27.4	—	—	1327.5	36.57	1340.04	Joan Lake Road drill holes
37	35.1	—	—	1310	51.81	1339.47	
38	29.0	—	—	1316	39.62	1339.38	
39	35.1	—	—	1310	54.86	1337.42	
40	0	—	—	1343	9.14	1337.03	
41	4.6	—	—	1335.5	12.19	1334.31	
42	39.6	—	—	1303.5	48.77	1335.96	
43	12.8	—	—	1327	21.33	1334.19	
44	10.1	—	—	1330	18.29	1333.07	
45	1.5	6.7	5.2	1310.5	18.29	1317.48	
46	8.5	19.8	11.3	1294	30.48	1313.92	
47	2.4	4.9	2.5	1302	13.72	1306.73	
48	4.6	7.6	3.0	1298.5	15.24	1306.01	
49	3.0	12.8	9.8	1307	21.33	1320.31	
50	1.8	6.4	4.6	1304.5	12.19	1311.69	
51	3.0	—	0	1308	7.62	1312.01	
52	1.5	4.6	3.1	1303.5	10.67	1306.54	
53	0	—	0	1306	6.10	1305.26	
54	3.7	—	0	1299.5	9.14	1301.75	
55	2.7	—	0	1295.5	9.14	1297.77	
56	1.5	—	0	1292.5	9.14	1294.65	
57	4.6	—	0	1288.5	9.14	1293	
58	1.5	—	0	1290.5	9.14	1291.46	
59	5.2	—	0	1284	9.14	1288.00	
60	5.5	—	0	1283.5	9.14	1287.99	
61	3.7	—	0	1285.5	8.53	1288.08	
62	1.5	6.1	4.6	1284	21.33	1289.75	
63	1.5	6.1	4.6	1285	12.19	1290.47	
64	2.4	3.4	1.0	1289.5	9.14	1291.57	
65	1.5	—	0	1290.5	9.14	1292.03	
66	3.0	—	0	1287	9.14	1289.05	
67	0	4.6	4.6	1285.5	12.19	1288.92	
68	4.3	13.1	8.8	1300	21.33	1311.49	
69	2.1	16.8	14.7	1296	21.33	1312.67	

TABLE 2 Continued

<u>Hole Number (79-P-)</u>	<u>Overburden Contact (m)</u>	<u>Miocene Sediment Basement Contact (m)</u>	<u>Miocene Sediment Thickness (m)</u>	<u>Basement Elevation (m)</u>	<u>Total Depth (m)</u>	<u>Collar Elevation (m)</u>	<u>Collar Coord.</u>
70	10.7	—	0	1280.5	16.76	1289.55	1093.80N, 303.64W
71	3.7	—	0	1303.5	12.19	1306.21	1920.44N, 30.78W
72	1.5	—	0	1306.5	9.14	1308.38	1923.71N, 91.41W
73	4.6	—	0	1305.5	12.19	1309.98	1920.72N, 154.92W
74	1.5	3.0	1.5	1299	9.14	1303.17	1840.83N, 211.59W
75	10.7	22.9	12.2	1279	27.43	1302.49	1841.65N, 180.42W
76	1.5	3.0	1.5	1296	12.19	1300.04	1837.73N, 151.70W
77	9.1	—	0	1290	21.33	1299.56	1836.56N, 121.96W
78	0	—	0	1300	6.10	1300.01	1834.39N, 87.79W
79	0	—	0	1300	9.14	1299.16	1833.93N, 60.60W
80	2.1	—	0	1297	9.14	1298.42	1832.44N, 34.87W
81	6.1	—	0	1292	15.24	1297.50	1829.67N, 0.45W
82	1.5	—	0	1293.5	6.10	1296.08	1307.74N, 786.75W
83	3.4	—	0	1301.5	7.62	1303.62	1375.80N, 809.77W
84	9.1	—	0	1311	15.24	1318.35	1420.77N, 967.61W
85	3.7	—	0	1301.5	9.14	1305.70	1220.64N, 1177.44W
86	2.7	—	0	1307.5	6.10	1305.80	1286.82N, 1070.96

9. Itemized Cost Statement

A. Personnel

Name	Dates	Number of Days	Rate/ Day \$	Cost \$
R. Cann, Geologist logging drill chips, report preparation	Aug. 29 - Sept 1 Sept. 13 Aug. 29	6	100	600
D. Shearer - geological assistant, radon and soil survey	June 16 - 27	12	60	720
T. Turner - Exploration Supervisor, report preparation	Feb. 7, 8	2	175	350

Total Man Days = 20
Total Cost = 1 670

B. Accomodation & Meals

\$20/man/day for a total of 18 man days 360

C. Transportation

4 X 4 Crew Cab rented from Avis in Kelowna
10 days @\$50 per day 500

D. Geochemical Analyses by Loring Labs Ltd. in Calgary
32 samples @\$5 per sample 160

E. Drill Site Preparation

Contracted to Olinger Contracting of Kelowna
Cat costs \$45 per hour for 20 hours 900

F. Surveying

Contracted to McWilliam, Whyte, Goble and Associates
of Kamloops 360

G. Drilling Costs

Contracted to Tonto Drilling Group
(Thirty-Two Albert Crescent Limited)
542.52 metres @ \$15.80/metre 8 571

H. Equipment Rentals

Radon Unit \$20/day for 12 days 240
TV-1A spectrometer \$7.00/day for 6 days 42

Total Expenditures on claims during 1979 \$12 803

STATEMENT OF QUALIFICATIONS

I, Arthur Terry Turner of the City of Calgary, in the Province of Alberta, do hereby state:

1. I am a graduate of the University of Alberta, Edmonton, with a B.Sc. in Geology, obtained 1969.
2. I have been continuously employed as a geologist in all phases of mineral exploration since my graduation in 1969.
3. I have been involved in mineral exploration in Canada and Australia since 1969.
4. I have been employed by Norcen Energy Resources Limited, Calgary, Alberta, as a geologist since February 1, 1977.
5. I am a registered member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
6. I prepared this assessment report from information obtained from the Yearend Geological Report, 1979 Drilling and Exploration Program, Blizzard Special Project Properties, British Columbia by R. Cann and D. A. Sawyer dated November, 1979.


Arthur Terry Turner

February 11, 1979

APPENDIX 1

SOIL SAMPLE DESCRIPTIONS, ANALYTICAL
METHOD, ASSAY CERTIFICATES

Table 4 SOIL SAMPLE DESCRIPTIONS

North Blizzard Grid

Sample Number	U ₃ O ₈ ppm	Soil horizon sampled	Depth (cm)	Colour	Remarks
100	2.2	B	15	Light brown	Disturbed
101	5.2	B	20	Dark red-brown	Disturbed
102	4.0	B	15	Light brown	
103	4.0	B	15	Light brown	
104	1.6	B	15	Light brown	
105	1.3	B	15	Light brown	
106	1.8	B	15	Light brown	
107	1.6	B	20	Light brown	
108	14.3	B	15	Grey	
109	10.7	B	10	Light brown	Disturbed
110	4.0	B	20	Grey & brown	
111	1.6	B	15	Grey	
112	20.2	B	20	Grey	
113	1.5	B	10	Grey	
114	0.9	B	15	Red-brown	
115	4.6	B	15	Red-brown	
116	4.2	B	20	Grey	
117	9.5	B	15	Light brown	
118	2.4	B	15	Grey	
119	2.0	B	25	Grey	
120	5.9	B	10	Brown	Disturbed
121	2.2	B	10	Light brown	
122	10.3	B	15	Grey	
123	2.5	B	20	Grey	
124	2.2	B	10	Light brown	
125	2.0	B	10	Light brown	
126	5.7	B	5	Light brown	Disturbed
127	340.0	A	30	Dark brown	
128	2.9	B	15	Grey	
129	2.9	B	15	Grey	
130	7.1	B	15	Grey	
131	18.4	B	15	Grey	
132	10.3	B	20	Grey	
133	11.3	B	15	Red-brown	
134	4.0	B	15	Red-brown	
135	5.9	B	10	Red-brown	Old road
136	4.0	B	15	Grey	
137	7.1	B	20	Grey	

Table 4 Continued

North Blizzard Grid

<u>Sample Number</u>	<u>U₃O₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
138	5.0	B	20	Red-brown	
139	16.5	B	15	Grey	
140	29.1	B	25	Red-brown	
141	3.1	B	30	Grey	
142	—	B	25	Red-brown	
143	9.0	B	25	Grey	
144	1.6	B	25	Red-brown	

South Blizzard Grid

145	2.0	B	25	Brown	Road-side
146	1.6	B	25	Light brown	
147	1.3	B	25	Gold	
148	1.1	B	25	Gold	
149	1.1	B	25	Brown	
150	3.8	B	25	Grey	
151	1.8	B	25	Red-brown	
152	0.2	B	15	Red-brown	Disturbed
153	0.2	B	25	Brown-grey	
154	0.4	B	25	Grey	
155	1.3	B	25	Grey	
156	0.7	B	15	Light brown-grey	Near cat work
157	1.8	B	30	Grey	Edge of creek
158	0.7	B	25	Gold-brown	
159	1.3	B	25	Grey	
160	0.4	B	30	Dark grey	
161	1.1	B	25	Red-brown	
162	1.8	B	15	Light red-brown	
163	1.1	B	25	Grey	
164	2.0	B	25	Brown	
165	1.6	B	25	Red-brown	
2163	1.6	B	25	Gold	
166	0.7	B	25	Brown-grey	
167	0.4	B	25	Gold	
168	2.9	B	25	Light brown	
169	0.9	B	25	Red-brown	
170	0.9	B	25	Gold	
171	0.7	B	25	Gold	

Table 4 Continued

South Blizzard Grid

Sample Number	U ₃₀₈ ppm	Soil horizon sampled	Depth (cm)	Colour	Remarks
172	3.8	B	25	Gold	
173	2.7	B	25	Grey	
174	1.6	B	25	Gold	
175	2.2	B	25	Gold	
176	4.5	B	25	Grey	
177	13.0	B	27	Grey	
178	6.3	B	25	Grey	Rocky
179	2.2	B	25	Grey	
180	2.4	B	25	Grey	
181	2.7	B	25	Gold	
182	2.7	B	10	Light brown	Swampy
183	8.6	B	25	Gold	
184	0.8	B	25	Gold	
185	0.4	B	25	Gold	
186	9.6	B	30	Grey	
187	2.9	B	25	Gold	
188	0.4	B	25	Red-brown	
189	1.0	B	25	Gold	
190	5.9	B	25	Gold	
191	5.9	B	25	Brown	
192	2.2	B	25	Gold	
193	2.2	B	25	Brown	Edge of road
194	11.2	A	25	Dark brown	Swampy
195	10.8	A	25	Black	Swampy
196	42.0	A	25	Black	Swampy
197	2.9	B	25	Gold	Edge of road
198	1.4	B	25	Gold	Disturbed
199	0.2	B	25	Gold	Disturbed
200	0	B	25	Gold-green	Disturbed
201	9.2	B	25	Gold-green	
202	3.3	B	25	Gold-grey	
203	4.9	B	25	Light brown	
204	1.6	B	25	Light brown	
205	4.3	B	25	Red-brown	
206	1.6	B	25	Red-brown	Disturbed
207	5.1	B	25	Light brown	
208	4.7	B	25	Light brown	
209	2.7	B	25	Gold	
210	0.8	B	25	Gold	

Table 4 Continued

South Blizzard Grid

Sample Number	U ₃₀₈ ppm	Soil horizon sampled	Depth (cm)	Colour	Remarks
211	0.4	B	20	Gold	
212	1.2	B	20	Gold	
213	14.7	A	25	Black	
214	1.8	B	20	Grey	
215	1.0	B	25	Gold	
216	2.4	B	25	Gold	
217	5.0	B	20	Red-brown	
218	4.6	B	25	Red-brown	
219	0.9	B	25	Red-brown	
220	1.3	B	25	Light brown	
221	0.7	B	25	Gold	
222	0.4	B	25	Gold	
223	1.6	B	25	Gold	Below seep
224	0.7	B	25	Gold, grey	
225	3.1	B	25	Grey, black	
226	2.9	B	25	Red-brown	
227	1.3	B	25	Red-brown	
228	0.9	B	25	Gold	
229	2.2	B	25	Red-brown	
230	1.1	B	25	Gold	
231	0.7	B	25	Gold	
232	38.0	A	25	Black	Boggy
233	—	B	25	Gold	
234	1.6	B	25	Gold	
235	1.1	B	25	Light brown	
236	5.9	B	25	Light brown	
237	4.2	B	25	Light brown	
238	4.2	B	25	Gold	
239	2.4	B	25	Grey	
240	7.0	B	25	Grey	
241	8.6				
242	56.9				
243	17.8	A	25	Black	
244	1.5	B	25	Gold	
245	4.2	B	25	Gold	
246	2.4	B	25	Gold	
247	2.9	B	25	Gold	
248	5.1	B	25	Gold	
249	2.9	B	25	Gold	

Table 4 Continued

South Blizzard Grid

Sample Number	U ₃₀₈ ppm	Soil horizon sampled	Depth (cm)	Colour	Remarks
250	3.5	B	25	Gold	Near ditch
251	2.0	B	25	Grey	
252	1.5	B	25	Grey	
253	1.5	B	25	Gold	
254	2.0	B	25	Light brown	Beside swamp
255	3.7	B	30	Light brown	
256	2.0	B	25	Gold	
257	9.0	B	25	Light brown	
258	3.7	B	25	Gold	
259	1.1	B	25	Gold	
260	1.5	B	12	Gold	
600	0.8	B	20	Gold	
601	1.4	B	25	Gold	
602	2.0	B	25	Gold	
603	0.8	B	25	Gold	
604	0.8	B	10	Light brown	On road
605	0.6	B	20	Light brown	On road
606	0.6	B	10	Light brown	
607	4.7	B	15	Dark brown	
608	5.9	B	25	Gold	
609	1.8	B	8	Brown	
610	0.6	B	10	Orange-brown	
611	0.4	B	20	Light brown	
612	0.8	B	25	Brown	
613	1.2	B	25	Gold-grey	
614	1.4	B	20	Gold-brown	
615	16.1	A	20	Dark brown, black	
616	1.0	B	25	Gold	
617	2.0	B	25	Gold	
618	8.4	B	25	Brown	
619	7.5	B	15	Light brown	
620	1.6	B	10	Light brown	Edge of road
621	1.4	B	15	Orange brown	
622	8.2	B	25	Brown	
623	6.3	B	25	Gold	
624	2.4	B	10	Brown	
625	3.2	B	20	Brown	On old road
626	2.6	B	20	Gold	
627	4.3	B	15	Brown	
628	2.2	B	15	Brown	

Table 4 Continued

South Blizzard Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
630	0.6	B	10	Gold-brown	
631	1.0	B	10	Gold-brown	
632	4.3	B	15	Gold-brown	
633	2.4	B	20	Gold-brown	
634	3.6	B	10	Brown	Edge of road
635	2.6	B	15	Gold-brown	
636	1.0	B	15	Gold-brown	
637	0.4	B	15	Gold-brown	
638	0.6	B	10	brown	
639	1.0	B	10	Red-brown	
640	0.6	B	15	Gold-brown	
641	0.6	B	10	Gold	
642	28.8	A	20	Dark Brown, black	
643	0.4	B	15	Brown	
644	0.2	B	15	Orange-brown	
645	0.8	B	10	Red-brown	
646	0.4	B	15	Brown	
647	0.8	B	15	Grey, brown	
648	0.8	B	10	Orange-brown	
649	0.6	B	10	Brown	Roadside
650	1.2	B	15	Brown	
651	0.4	B	15	Gold-brown	
652	0.6	B	20	Brown	

Moraig Grid

261	1.1	B	20	Gold	
262	2.0	B	25	Sandy-brown	
263	1.5	B	25	Sandy-brown	
264	6.8	B	25	Sandy-brown	Edge of Road
265	2.9	B	25	Sandy-brown	
266	1.5	B	20	Gold	
267	4.2	B	25	Gold	
268	3.3	B	25	Red-gold	
269	1.1	B	25	Sandy-brown	
270	2.4	B	25	Sandy-brown	
271	4.2	B	25	Sandy-brown	
272	0.2	B	25	Grey	
273	0.6	B	25	Sandy-brown	
274	0.6	B	25	Grey	
275	4.1	B	25	Grey	
276	3.8	B	25	Gold	
277	0.4	B	25	Gold	

Table 4 Continued

Moraig Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
278	2.6	B	25	Grey	
279	4.7	B	30	Green-grey	
280	3.2	B	30	Grey	
281	44.9	A	35	Black	Swampy
282	1.0	B	30	Gold	Side of road
283	0.2	B	30	Gold	
284	2.4	B	25	Grey	
285	1.4	B	25	Gold	
286	2.0	B	25	Sandy-brown	
287	1.4	B	25	Sandy-brown	
288	4.7	B	25	Red-brown	
289	5.3	B	25	Sandy-brown	
290	5.5	B	25	Red-brown	
291	1.0	B	25	Sandy-brown	
292	0.4	B	25	Red-brown	
293	1.6	B	25	Gold	
294	30.0	A	25	Black	Swampy
295	2.4	B	25	Gold	
296	0.6	B	25	Gold	
297		B	25	Red-brown	
298					
299	0.2	B	25	Sandy-brown	
300	0.4	B	25	Grey	
301	0.8	B	25	Grey	
302	1.0	B	25	Grey	
303	2.0	B	25	Grey	
304	1.0	B	25	Gold	
305	1.0	B	25	Gold	
306	0.6	B	25	Gold	
307	1.8	B	25	Gold	
308	1.2	B	25	Grey	
309	0.8	B	25	Gold	
310	1.4	B	25	Sandy-gold	Disturbed
311	0.4	B	25		Disturbed
312	0	B	25	Red-brown	
313	1.0	B	25	Red-brown	
314	2.8	B	25	Grey	
315	0.8	B	25	Red-brown	

Table 4 Continued

Moraig Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
316	4.1	B	25	Grey	Roadside
317	3.2	B	15	Sandy-brown	
318	10.8	B	25	Gold	
319	1.8	B	25	Red-brown	
320	12.0	B	25	Gold	
321	3.0	B	25	Gold	
322	1.0	B	25	Gold	
323	0.6	B	25	Gold	
324	2.6	B	25	Gold	
325	1.2	B	25	Gold	
326					
327	0.8	B	25	Sandy-yellow	
328	1.0	B	25	Red-brown	
329	1.8	B	25	Gold	Roadside
330	1.0	B	25	Gold	
331	1.8	B	25	Gold	
332	3.4	B	25	Gold	
333	2.8	B	25	Gold	
334	2.4	B	25	Gold	
335	6.5	B	25	Gold	
336	2.4	B	25	Gold	
337	3.2	B	25	Gold	
338	1.2	B	25	Gold	
339	1.4	B	25	Grey-gold	
340	1.0	B	25	Gold	
341	2.8	B	25	Gold	
342	2.0	B	25	Gold	
343	2.6	B	25	Gold	
344	3.0	B	25	Grey	
345	1.4	B	25	Gold	
346	1.6	B	25	Gold	
347	2.0	B	25	Gold	
348	1.6	B	25	Gold	
349	3.4	B	25	Brown	
350	1.2	B	25	Gold	
351	1.6	B	15	Red-brown	
352	1.6	B	15	Brown	
353	4.4	—	20	Brown	Swampy

Table 4 Continued

Moraig Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
354	1.2	B	10	Light brown	
355	1.6	B	15	Red-brown	
356	0.6	B	15	Red-brown	
357	1.0	B	10	Light brown	
358	2.0	B	15	Red-brown	
359	1.4	B	20	Red-brown	
360	1.8	B	15	Grey & brown	Old road
361	1.6	B	15	Brown	
362	2.6	B	20	Brown	
363					
364	1.0	B	12	Sandy-brown	
365	1.2	B	25	Gold	
366	9.4	A	25	Black	Swampy
367	5.4	A	25	Black	Swampy
368	11.2	A	25	Black	Swampy
369	2.0	B	25	Grey	
370	2.6	B	25	Gold	
371	4.0	B	25	Gold	
372	3.0	B	25	Gold	
373	2.0	B	25	Gold	
374	1.6	B	25	Gold	
375	2.4	B	25	Gold	
376	1.2	B	15	Brown	
377	1.4	B	15	Brown	
378	2.2	B	10	Brown & grey	
379	2.6	B	20	Brown	
380	3.8	B	20	Brown	
381	2.2	B	20	Brown	
382	2.0	B	20	Brown	
383	1.2	B	15	Grey-brown	
384	18.6	A	15	Black	Bog
385	4.8	A	20	Dark brown	Organic
386	1.4	B	15	Brown	
387	1.2	B	20	Brown	
388					
389	1.0	B	25	Gold	
390	2.0	B	25	Grey	
391	1.4	B	25	Gold	

Table 4 Continued

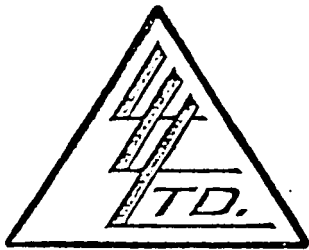
Moraig Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
392	2.0	B	25	Grey	
393	1.8	B	25	Gold	
394	3.2	B	25	Grey	
395	3.4	B	25	Grey	
396	1.0	B	25	Gold	
397	1.0	B	25	Gold	
398	1.0	B	25	Gold	
399	3.0	B	25	Gold	
400	0.6	B	20	Light brown	
401	0.6	B	20	Light brown	
402	1.2	B	20	Light brown	
403	1.6	B	20	Red-brown	
404	1.0	B	20	Light brown	
405	1.2	B	15	Light brown	
406	0.6	B	15	Light brown	
407	1.0	B	15	Light brown	
408	1.8	B	15	Red-brown	Old road
409	0.4	B	15	Brown	
410	0.4	B	10	Light brown	
411	0.6	B	10	Light brown	
412	0.2	B	15	Light brown	
413	0.8	B	10	Light brown	
414	0.8	B	20	Light brown	
415	3.2	B	20	Red-brown	
416	23.7				
417	2.8	B	25	Grey	
418	4.0	B	25	Gold	
419	1.6	B	25	Gold	
420	2.4	B	25	Gold	
421	3.2	B	25	Gold	
422	1.6	B	25	Gold	
500	2.2	B	15	Red-brown	
501	2.2	B	10	Light brown	
502	0.6	B	10	Grey	
503	3.4	B	10	Red-brown	
504	1.2	B	10	Red-brown	
505	1.0	B	15	Red-brown	Old road

Table 4 Continued

Moraig Grid

<u>Sample Number</u>	<u>U₃₀₈ ppm</u>	<u>Soil horizon sampled</u>	<u>Depth (cm)</u>	<u>Colour</u>	<u>Remarks</u>
506	0.6	B	10	Red-brown	
507	1.6	B	15	Red-brown	Old road
508	0.8	B	10	Brown	
509	1.2	B	10	Light brown	
510	1.8	B	10	Grey	
511	0.6	B	15	Grey-brown	



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

LORING LABORATORIES LTD.

Phone 274-2777

Assay Uraniums - 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.



No. NORCEN ENERGY RESOURCES LIMITED

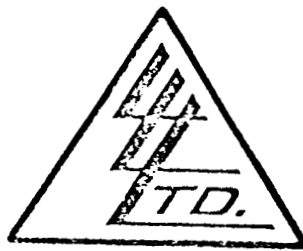
27th Floor

715 - 5th Avenue S.W.

CALGARY, Alberta T2P 2X7

ATTN : Don Sawyer

cc : E. Larabie



File No. 17114

Date June 14th, 1979

Samples Soils

Certificate of ASSAY of

LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPM U308	NORTH BLIZZARD GRID
<u>SOIL SAMPLES "</u>		
100	2.2	
101	5.2	
102	4.0	
103	4.0	
104	1.6	
105	1.3	
106	1.8	
107	1.6	
108	14.3	
109	10.7	
110	4.0	
111	1.6	
112	20.2	
113	1.5	
114	0.9	
115	4.6	
116	4.2	
117	9.5	
118	2.4	
119	2.0	
120	5.9	
121	2.2	
122	10.3	
123	2.5	
124	2.2	
125	2.0	
126	5.7	
127	340.0	
128	2.9	
129	2.9	

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.

E. Larabie

Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED

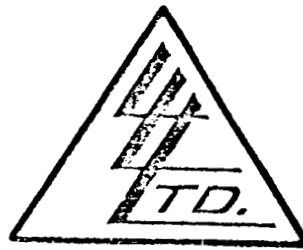
27th Floor

715 - 5th Avenue S.W.

CALGARY, Alberta T2P 2X7

ATTN : Don Sawyer

cc : E. Larabie



File No. 17114

Date June 14th, 1979

Samples Soils

Certificate of
ASSAY OF

LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM U308	
130	7.1	
131	18.4	
132	10.3	
133	11.3	
134	4.0	
135	5.9	
136	4.0	
	7.1	
	5.0	
139	16.5	
140	29.1	
141	3.1	
142*	-	
143	9.0	
144	1.6	
145	2.0	<u>SOUTH BLIZZARD GRID</u>
146	1.6	
147	1.3	
148	1.1	
149	1.1	
150	3.8	
151	1.8	
152	0.2	
153	0.2	
154	0.4	
155	1.3	
156	0.7	
157	1.8	
158	0.7	
159	1.3	
160	0.4	

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

Sample Missing

Objects Retained one month.

Pulps Retained one month

Unless specific arrangements

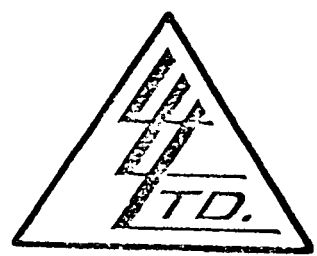
be in advance.

Edm. J. ...

Licensed Assayer of British Columbia

To: NORGEN ENERGY RESOURCES LIMITED
 27th Floor,
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN: Don Sawyer
 cc: E. Larabie

File No. 17114
 Date June 14th, 1979
 Samples Soils



Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	PPM U308	
161	1.1	<u>SOUTH BLIZZARD GRID</u>
162	1.8	
163	1.1	
164	2.0	
165	1.6	
166	0.7	
167	0.4	
	2.9	
	0.9	
170	0.9	
171	0.7	
172	3.8	
173	2.7	
174	1.6	
175	2.2	
176	4.5	
177	13.0	
178	6.3	
179	2.2	
180	2.4	
181	2.7	
182	2.7	
183	8.6	
184	0.8	
185	0.4	
186	9.6	
187	2.9	
188	0.4	
189	1.0	
190	5.9	
191	5.9	

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
 be made in advance.

[Signature]
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED

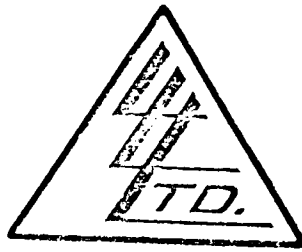
27th Floor

715 - 5th Avenue S.W.

CALGARY, Alberta T2P 2X7

ATTN : Don Sawyer

cc : E. Larabie



File No. 17114

Date June 14th, 1979

Samples Soils

Certificate of
ASSAY OF

LORING LABORATORIES LTD.

Page # 4

SAMPLE No.

PPM
U308

SOUTH BLIZZARD GRID

192	2.2
193	2.2
194	11.2
195	10.8
196	42.0
197	2.9
198	1.4
199	0.2
200	Nil
201	9.2
202	3.3
203	4.9
204	1.6
205	4.3
206	1.6
207	5.1
208	4.7
209	2.7
210	0.8
211	0.4
212	1.2
213	14.7
214	1.8
215	1.0
216	2.4
217	5.0
218	4.6
219	0.9
220	1.3
221	0.7
222	0.4
223	1.6

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

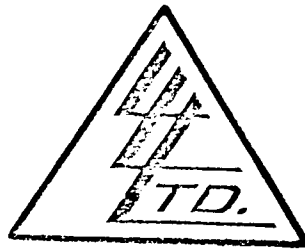
Subjects Retained one month.

Pulps Retained one month
unless specific arrangements
made in advance.

a. l. m. f. a. c.

Licensed Assayer of British Columbia

Co: NORCEN ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN : Don Sawyer
 cc : E. Larabie



File No. 17114
 Date June 14th, 1979
 Samples Soils

Certificate of
ASSAY
 LORING LABORATORIES LTD.

Page # 5

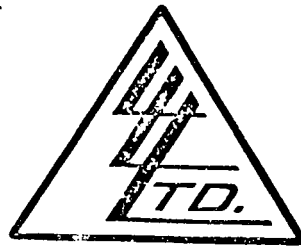
SAMPLE No.	PPM U308	
224	0.7	<u>SOUTH BLIZZARD GRID</u>
225	3.1	
226	2.9	
227	1.3	
228	0.9	
229	2.2	
230	1.1	
231	0.7	
232	38.0	
233*	-	
234	1.6	
235	1.1	
2163	1.6	
Sample Missing		

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

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


 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED,
 27th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7
 ATTN: Terry Turner



File No. 17155
 Date June 21, 1979
 Samples Soil Geochems

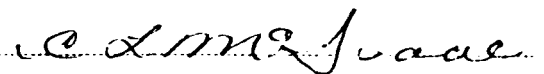
cc: R. Cann - Beaverdell

Certificate of
ASSAY of
LORING LABORATORIES LTD.

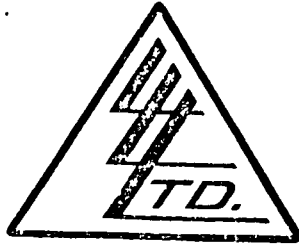
Page # 2

SAMPLE No.	PPM U308	
<u>"Soil Geochems"</u>		<u>SOUTH BLIZZARD GRID</u>
235 *	-	
236	5.9	
237	4.2	
238	4.2	
239	2.4	
240	7.0	
241	8.6	
242	56.9	
243	17.8	
244	1.5	
245	4.2	
246	2.4	
247	2.9	
248	5.1	
249	2.9	
250	3.5	
251	2.0	
252	1.5	
253	1.5	
254	2.0	
255	3.7	
256	2.0	
257	9.0	
258	3.7	
259	1.1	
260	1.5	
261	1.1	
262	2.0	<u>MORAIG GRID</u>
263	1.5	
* Sample Missing		
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES		

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.


 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED,
 27th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7
 ATTN: Terry Turner



File No. 17155
 Date June 21, 1979
 Samples Soil Geochems

cc: R. Cann - Beaverdell

Certificate of
ASSAY OF
LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	PPM U308	MORAIG GRID
264	6.8	
265	2.9	
266	1.5	
267	4.2	
268	3.3	
269	1.1	
270	2.4	
271	4.2	

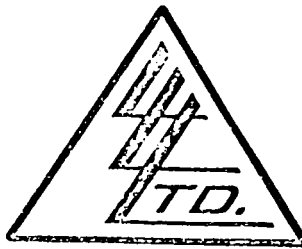
I **Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

Edmund J. O'Connell
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN : T. Turner

File No. 17275
 Date July 11th, 1979
 Samples Soils



Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPM U308	MORAIG GRID
<u>SOIL SAMPLES "</u>		
272	0.2	
273	0.6	
274	0.6	
275	4.1	
276	3.8	
277	0.4	
278	2.6	
279	4.7	
280	3.2	
281	44.9	* organic
282	1.0	
283	0.2	
284	2.4	
285	1.4	
286	2.0	
287	1.4	
288	4.7	
289	5.3	
290	5.5	
291	1.0	
292	0.4	
293	1.6	
294	30.0	* organic
295	2.4	
296	0.6	
299	0.2	
300	0.4	
301	0.8	
302	1.0	
303	2.0	

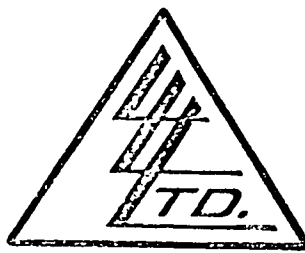
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

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

C. M. Mac
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN : T. Turner

File No. 17275
 Date July 11th, 1979
 Samples Soils



Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM U308	MORAIG GRID
304	1.0	
305	1.0	
306	0.6	
307	1.8	
308	1.2	
309	0.8	
310	1.4	
311	0.4	
312	Nil	
313	1.0	
314	2.8	
315	0.8	
316	4.1	
317	3.2	
318	10.8 *	
319	1.8	
320	12.0 *	
321	3.0	
322	1.0	
323	0.6	
324	2.6	
325	1.2	
327	0.8	
328	1.0	
329	1.8	
330	1.0	
331	1.8	
332	3.4	
333	2.8	
334	2.4	
335	6.5	

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

Objects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.


 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED

27th Floor

715 - 5th Avenue S.W.

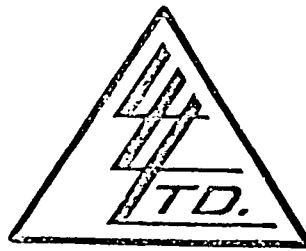
CALGARY, Alberta T2P 2X7

ATTN : T. Turner

File No. 17275

Date July 11th, 1979

Samples Soils



Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 3

SAMPLE No.

PPM
U308

MORAIG GRID

336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
364
365
366
367

2.4
3.2
1.2
1.4
1.0
2.8
2.0
2.6
3.0
1.4
1.6
2.0
1.6
3.4
1.2
1.6
4.4
1.2
1.6
0.6
1.0
2.0
1.4
1.8
1.6
2.6
1.0
1.2
9.4 *
5.4 *

Organic
Organic

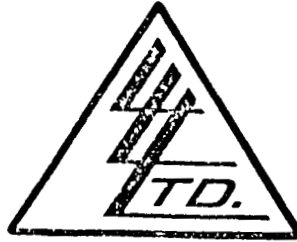
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

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

Edmond Isaac

Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED,
 27th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7
 ATTN: Terry Turner
 cc: R. Cann - Beaverdell



File No. 17155
 Date June 21, 1979
 Samples Waters

Certificate of
ASSAY OF
LORING LABORATORIES LTD.

Page # 1

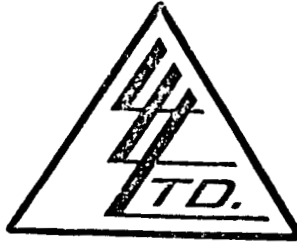
SAMPLE No.	PPB U308
<u>"Water Samples"</u> 79-BR-2 (W) 79-BR-3 (W)	0.3 1.0
79-BL-3 (W) 79-BL-4 (W)	1.0 1.0 <u>South Blizzard Grid</u>

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

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

A. M. J. O. A. C.
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED,
 27th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7
 ATTN: Terry Turner
 cc: R. Cann - Beaverdell



File No. 17155
 Date June 21, 1979
 Samples Silt Geochems

Certificate of
ASSAY of
LORING LABORATORIES LTD.

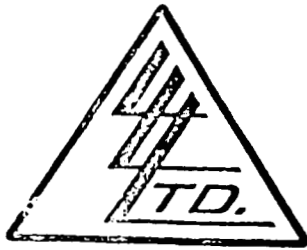
Page # 4

SAMPLE No.	PPM U308
<u>"Silt Geochems"</u>	
79-BL-2-(ST)	1.5
79-BL-3-(ST)	6.4
	<p style="text-align: right;"><u>South Blizzard Grid</u></p> <p style="text-align: center;">I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>

Subjects Retained one month.
 Pulp Retained one month
 less specific arrangements
 made in advance.

[Signature]
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN : T. Turner



File No. 17275
 Date July 11th, 1979
 Samples Soils

Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 4

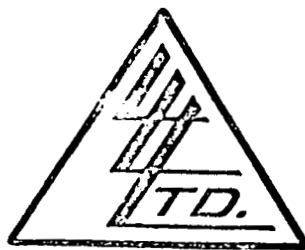
SAMPLE No.	PPM U308			
368	11.2	*	organic	<u>MORAIG GRID</u>
369	2.0			
370	2.6			
371	4.0			
372	3.0			
373	2.0			
374	1.6			
375	2.4			
376	1.2			
377	1.4			
378	2.2			
379	2.6			
380	3.8			
381	2.2			
382	2.0			
383	1.2			
384	18.6	*	organic	
385	4.8	*	organic	
386	1.4			
387	1.2			
389	1.0			
390	2.0			
391	1.4			
392	2.0			
393	1.8			
394	3.2			
395	3.4			
396	1.0			
397	1.0			
398	1.0			
399	3.0			

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

Objects Retained one month.
 Pulp Retained one month
 For specific arrangements
 please advise in advance.

[Signature]
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY , Alberta T2P 2X7
 ATTN : T. Turner



File No. 17275
 Date July 11th, 1979
 Samples Soils

Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 5

SAMPLE No.	PPM U308	
400	0.6	<u>MORAIG GRID</u>
401	0.6	
402	1.2	
403	1.6	
404	1.0	
405	1.2	
406	0.6	
407	1.0	
408	1.8	
409	0.4	
410	0.4	
411	0.6	
412	0.2	
413	0.8	
414	0.8	
415	3.2	
416	23.7 *	
417	2.8	
418	4.0	
419	1.6	
420	2.4	
421	3.2	
422	1.6	
500	2.2	
501	2.2	
502	0.6	
503	3.4	
504	1.2	
505	1.0	
506	0.6	
507	1.6	

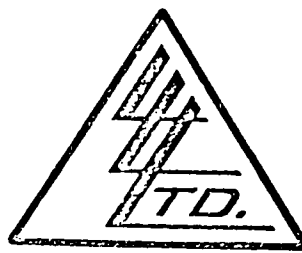
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Subjects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

[Signature]
 Licensed Assayer of British Columbia

To: NORCEY ENERGY RESOURCES LIMITED
 27th Floor
 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ATTN : T. Turner

File No. 17275
 Date July 11th, 1979
 Samples Soils



**Certificate of
 ASSAY of
 LORING LABORATORIES LTD.**

Page # 6

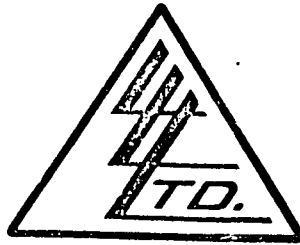
SAMPLE No.	PPM U308		
508	0.8	<u>MORAIG GRID</u>	
509	1.2		
510	1.8		
511	0.6		
600	0.8	<u>SOUTH BLIZZARD GRID</u>	
601	1.4		
602	2.0		
603	0.8		
604	0.8		
605	0.6		
606	0.6		
607	4.7		
608	5.9		
609	1.8		
610	0.6		
611	0.4		
612	0.8		
613	1.2		
614	1.4		
615	16.1 *		organic
616	1.0		
617	2.0		
618	8.4		
619	7.5		
620	1.6		
621	1.4		
622	8.2 *	organic	
623	6.3		
624	2.4		
625	3.2		
626	2.6		

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

Objects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

Admiral Isaac
 Licensed Assayer of British Columbia

To: NORCEN ENERGY RESOURCES LIMITED,
 27th Flr., 715 - 5th Avenue S.W.,
 Calgary, Alberta T2P 2X7
 ATTN: Terry Turner
 cc: R. Cann - Beaverdell



File No. 17114
 Date June 14, 1979
 Samples Water

Certificate of
ASSAY

LORING LABORATORIES LTD.

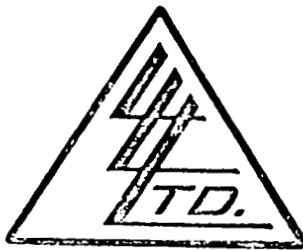
Page # 7

SAMPLE No.	PPB U308
<p><u>"Water Samples"</u></p> <p>79-BR-1 (W)</p>	<p>0.3</p>
<p>79-BL-1 (W)</p>	<p>1.0</p>
<p>79-BL-2 (W)</p>	<p>0.3</p> <p style="text-align: right;"><u>South Blizzard Grid</u></p> <p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>

Subjects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

e. L. M. J. A. C.
 Licensed Assayer of British Columbia

■ TO: NORGEN ENERGY RESOURCES LIMITED
 27th Floor
 ■ 715 - 5th Avenue S.W.
 CALGARY, Alberta T2P 2X7
 ■ ATTN: T. Turner



File No.17275.....
 Date July 11th, 1979 ..
 Samples . Soils

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 7

SAMPLE No.	PPM U308	
627	4.3	<u>SOUTH BLIZZARD GRID</u>
628	2.2	
629	1.0	
630	0.6	
631	1.0	
632	4.3	
633	2.4	
634	3.6	
635	2.6	
636	1.0	
637	0.4	
638	0.6	
639	1.0	
640	0.6	
641	0.6	
642	28.8	* organic
643	0.4	
644	0.2	
645	0.8	
646	0.4	
647	0.8	
648	0.8	
649	0.6	
650	1.2	
651	0.4	
652	0.6	

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

■ Repts Retained one month.
 ■ Pulp Retained one month
 ■ unless specific arrangements
 ■ made in advance.

Licensed Assayer of British Columbia

APPENDIX 2

DRILL LOGS

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-27
 COLLAR: 1564.67N, 492.52W CLAIM NAME: Moraig STARTED: August 28, 1979
 ELEVATION: 1303.30 BEARING: _____ COMPLETED: August 28, 1979
 DIP: 90° ULTIMATE DEPTH: 10.67m/35ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Pleistocene Overburden</u> - brown & brown-grey bouldery gravel changing downward to clay and silt	0					
	<u>Basement</u> - med. grained granodiorite - mod. chloritized - 5% mafics - cuttings pale brown 1.5/5 - 4.6/15, pale grey-green 4.6/15-10.7/35	1.5/5	All bags 2000-2500 (Background =2200)				
	END OF HOLE	10.7/35					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-28

COLLAR: 1562.88N, 544.04W CLAIM NAME: Moraig STARTED: August 28, 1979

ELEVATION: 1305.45 BEARING: --- COMPLETED: August 28, 1979

DIP: 90° ULTIMATE DEPTH: 9.14m/30ft.

LOGGED BY: R. Cann PROPOSED DEPTH: ---

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Pleistocene Overburden</u> - yellow-brown bouldery sand and clay - boulders of granite and basalt	0					
	<u>Basement</u> - med. grained granodiorite - mod. chloritized - approx. 3-5% mafics - cuttings pale grey to grey-green - top 1.5/5 weathered brown	0.9/3	All bags background or lower (2500)				
	END OF HOLE	9.1/30					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-29
 COLLAR: 1561.74, ^N604.35W CLAIM NAME: Moraig STARTED: August 28, 1979
 ELEVATION: 1305.23 BEARING: — COMPLETED: August 28, 1979
 DIP: 90° ULTIMATE DEPTH: 12.19m/40ft.
 LOGGED BY: R. Cann PROPOSED DEPTH:

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	<u>Pleistocene Overburden</u> -yellow-brown bouldery silt and clay - boulders mainly granite	3.0/10					
	<u>Basement</u> - very soft chloritic intrusive - approx. 2% mafics, 30% quartz, 65% feldspar and clay - cuttings pale cream- brown to pale grey- green colour	6.1/20	All bags background				
	END OF HOLE	12.2/40	(1500)				

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 3 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-p-30
 COLLAR: _____ CLAIM NAME: Moraig STARTED: August 29, 1979
 ELEVATION: 1326.93 BEARING: _____ COMPLETED: August 29, 1979
 DIP: 90° ULTIMATE DEPTH: 45.72m/150ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	7.6/25-12.2/40 - pale brown, muddy arkosic sand - subangular grains of quartz and feldspar - occasional pebbles of granodiorite and chloritized granodiorite	7.6/25	All bags background (3000)		1.52		
					1.52	9208	.001
					1.52		
	12.2/40-13.7/45 - sandy mudstone - 85-90% light brown clay, 10% quartz and feldspar grains				1.52		
	13.7/45-18.3/60 - pale brown muddy sandstone				1.52	9209	.001

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-30 . SHEET NUMBER: 2 of 3 .

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U3O8 CHEMICAL
	-20-30% pale brown mud, 70-70% fine to medium grained arkosic sand -sand coarsens downward				1.52		
	18.3/60-19.8/65 -muddy sandstone as above but 50% mud, 50% sand -sand grains of quartz and feldspar				1.52	9210	.001
	19.8/65 - 21.3/70 - cream coloured, coarse arkosic sand - grains 60% clear quartz, 35-40% white feldspar, 1-2% fine biotite				1.52		
	21.3/70 - 22.9/75 - as above but contains 5% orange-brown mud				1.52	9211	.001
	22.9/75 - 25.9/85 - muddy conglomerate or weathered basement - olive green to brown - 20% green mud, 60% fine				1.52		

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-30 . SHEET NUMBER: 3 of 3

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	granitic sand, 20% coarse chips of feldspar and quartz				1.52	9212	.001
	<u>Basement</u> dark olive-grey, chloritized granodiorite basement gradational to above unit 20% chloritized mafics	25.9/85					
	END OF HOLE	45.7/150					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 3 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-31
 COLLAR: _____ CLAIM NAME: Moraig STARTED: August 29, 1979
 ELEVATION: 1329.86 BEARING: _____ COMPLETED: August 29, 1979
 DIP: 90° ULTIMATE DEPTH: 33.53m/110ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 3.0/10 - brown sandy clay with granitic boulders	1.5/5			1.52	9213	.001
	3.0/10 - 10.7/35 - yellow-brown clayey sand - 30% brown-clay, 70% granitic sand and boulders		All bags		1.52		
			background		1.52	9214	.001
					1.52		
	10.7/35 - 12.2/40 - pale brown sandy clay - 80% clay, 10% quartz grains, 10% feldspar grains, minor chloritic granodiorite grains		or lower (3000)		1.52	9215	.001

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

HOLE NUMBER: 79-P-31

SHEET NUMBER: 2 of 3

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U3O8 CHEMICAL
	12.2/40-16.8/55 - brown, muddy, fine to medium grained sand				1.52		
	- 25% brown clay, 30% quartz grains, 45% white feldspar grains - minor granitic pebbles				1.52		
	16.8/55 - 18.3/60				1.52	9216	Trace
	- pale whitish brown gritty mudstone - 90% clay, 10% granitic grains				1.52		
	18.3/60 - 21.3/70				1.52		
	- cream coloured, clean coarse arkosic sand or conglomerate - 60-70% clear quartz grains, 30% white feldspar, minor fine sand and silt				1.52	9217	.001
	21.3/70 - 22.9/75				1.52		
	- same as above but 10-15% yellow-brown mud and 5% orange-brown grains.				1.52		

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-31 . SHEET NUMBER: 3 of 3

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	22.9/75 - 24.4/80 - brown, muddy coarse sandstone or weathered basement - 40% fine sand and mud, 50% coarse quartz and feldspar grains 10% rusty grains				1.52	9218	.001
	<u>Basement</u> - green-grey chloritized granodiorite - fine-grained - 50% chloritized mafics	24.4/80					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 3 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-32
 COLLAR: _____ CLAIM NAME: Moraig STARTED: August 29, 1979
 ELEVATION: 1334.05 BEARING: _____ COMPLETED: August 29, 1979
 DIP: _____ 90° ULTIMATE DEPTH: 48.77m/160ft.
 LOGGED BY: _____ R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	4.6/15 - 6.1/20 - grey-brown muddy sandstone - 5-10% mud, 85% med. grained granodiorite grains	4.6/15			1.52	9219	.001
	6.1/20-7.6/25 - grey-brown bouldery clay - boulders of granodiorite and basalt		All bags		1.52		
	7.6/25 - 10.7/35 - grey-brown muddy sandstone or conglom. - 30% pale brown mud, 70% chips of chloritized granodiorite		background		1.52		
					1.52	9220	.001

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

HOLE NUMBER: 79-P-32

SHEET NUMBER: 2 of 3

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U3O8 CHEMICAL
	10.7/35 - 16.8/55				1.52		
	- creamy-brown sandy mudstone						
	- 70% pale brown clays, 30% quartz and feldspar grains				1.52	9221	.001
	16.8/55 - 22.9/75				1.52		
	- pale brown-ochre mudstone				1.52		
	- pebbly 16.8/55-18.3/60				1.52	9222	.001
	22.9/75 - 27.4/90				1.52		
	- orange-brown, muddy fine to medium grained sand				1.52	9223	Trace
	- 10% mud, 50% fine sand, 40% coarse quartz and feldspar grains				1.52		
	- minor rusty orange grains				1.52		
	27.4/90 - 30.5/100				1.52	9224	Trace
	- as above but pale grey-brown				1.52		
					1.52		

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-32 . SHEET NUMBER: 3 of 3

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	30.5/100 - 35.1/115				1.52		
	- grey-green muddy sand						
	- as above but about 5% chlorite grains				1.52	9225	Trace
	35.1/115 - 38.1/125				1.52		
	- yellow-brown muddy sandstone						
	- 15-20% yellow-brown clay, 80% arkosic sand, 1-2% chloritized granodiorite grains, minor rusty grains				1.52		
					1.52	9226	Trace
	<u>Basement</u>	38.1/125					
	- chloritized granodiorite						
	- cuttings grey-green						
	- 10% clay						

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-33

COLLAR: _____ CLAIM NAME: Moraig STARTED: August 30, 1979

ELEVATION: 1338.86 BEARING: _____ COMPLETED: August 30, 1979

DIP: 90° ULTIMATE DEPTH: 15.24m/50 ft.

LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	yellow-brown and yellow-orange gritty mud 10% feldspar grains, 90% clay	0			1.52	9227	.001
					1.52		
					1.52		
					1.52	9228	Trace
					1.52		
	Basement green-grey chloritized granodiorite 20% chloritized mafics 5% rusty grains	7.0/23	All bags below background				
	END OF HOLE	15.2/50	(3000)				

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-p-34
 COLLAR: _____ CLAIM NAME: Moraig STARTED: August 30, 1979
 ELEVATION: 1338.78 BEARING: _____ COMPLETED: August 30, 1979
 DIP: 90° ULTIMATE DEPTH: 18.29 m/60ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 6.1/20 - yellow-brown to orange brown gritty mudstone - 5% sand grains	1.5/5	All bags background		1.52	9229	.001
	6.1/20 - 9.1/30 - rusty-brown muddy sand- stone - 30% brown clay, 70% fine and coarse sand - sand grains mainly white feldspar		(3800)		1.52		
					1.52	9230	.001
					1.52		
	Basement - chloritized granodiorite	9.1/30					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-34 . SHEET NUMBER: 2 of 2 .

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	- 15-20% mafics 12.2/40 - 13.7/45 - well chloritized - grey-green to dark grey-green						
	END OF HOLE	18.3/60					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-35

COLLAR: CLAIM NAME: Moraig STARTED: August 30, 1979

ELEVATION: 1338.96 BEARING: COMPLETED: August 30, 1979

DIP: 90° ULTIMATE DEPTH: 12.19m/40ft.

LOGGED BY: R. Cann PROPOSED DEPTH:

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 6.1/20 - orange-brown to yellow-brown sandy mudstone	1.5/5	All bags background (3200) or below		1.52	9231	Trace
	- less than 5% sand				1.52		
	6.1/20 - 7.6/25 - grey-brown gritty mudstone - 5 - 10% cuttings of chloritized granodiorite				1.52		
	<u>Basement</u> - medium grained, chloritized granodiorite - 20-30% mafics	7.6/25					
	END OF HOLE	12.2/40					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-36
 COLLAR: Joan Lake Road drill holes CLAIM NAME: Moraig STARTED: August 30, 1979
 ELEVATION: 1340.04 BEARING: — COMPLETED: August 30, 1979
 DIP: 90° ULTIMATE DEPTH: 36.57 m/120 ft.
 LOGGED BY: R. Cann PROPOSED DEPTH:

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 4.5/15 - grey-brown pebbly and bouldery clay - 50% pale brown clay, 30-50% basalt boulder cuttings	1.5/5	All bags below background				
	4.6/15 - 16.8/55 - brown clayey medium grained sand - 5% clay, 70% white feld- spar grains, 25% quartz and rusty grains		(3800)		1.52	9223	.001
					1.52		
					1.52		
					1.52	9234	Trace
					1.52		
					1.52		
	16.8/55 - 19.8/65 - pale white-grey gritty mudstone				1.52	9235	.005
					1.52		
					1.52		

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-36 . SHEET NUMBER: 2 of 2

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U3O8 CHEMICAL
	- pebbles of chloritized granodiorite 19.8/65 - 27.4/90				1.52	9236	.001
	- grey-green muddy sand- stone - mud content decreases from about 40% at top of section to 5% at bottom - grains of feldspar, quartz and granodiorite				1.52		
					1.52		
					1.52	9237	.001
					1.52		
					1.52		
	<u>Basement</u> - gradational to above - grey-green chloritized granodiorite - 30% mafics	27.4/90					
	END OF HOLE	36.6/120					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-37
 COLLAR: Joan Lake Road drill holes CLAIM NAME: Moraig STARTED: August 30, 1979
 ELEVATION: 1339.47 BEARING: — COMPLETED: August 30, 1979
 DIP: 90° ULTIMATE DEPTH: 51.81m/170ft.
 LOGGED BY: R. Cann PROPOSED DEPTH:

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	0 - 3.0/10	0					
	- grey-brown bouldery sand - 10% grey mud, 60% sand, 30% basalt boulders						
	3.0/10 - 4.6/15		All bags background				
	- grey-bouldery clay - 50% clay, 50% basalt chips		only		1.52		
	4.6/15 - 6.1/20						
	- grey mudstone				1.52	9238	.001
	6.1/20 - 18.3/60				1.52		
	- pale, grey-brown mud- stone				1.52		
					1.52		
	18.3/60 - 21.3/70				1.52	9240	.002
	- grey mudstone				1.52		
	- 5% quartz and feldspar sand grains 19.8/65-21.3/70				1.52	9241	.002

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-37 . SHEET NUMBER: 2 of 2

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	21.3/70 - 25.9/85						
	- pale cream-brown muddy sandstone				1.52		
	- 10% clay, 40% fine sand, 45% coarse quartz and feldspar grains, 5% rusty grains				1.52	9242	.001
	25.9/85 - 32.0/105				1.52		
	- olive-brown fine muddy sandstone				1.52		
	- 30% olive-brown mud, 60% fine quartz and feldspar sand 10% coarse quartz and feldspar chips				1.52	9243	.001
	32.0/105 - 33.5/110				1.52		
	- green-grey muddy sand as 25.9-32.0 but 40-50% green clay				1.52	9244	.001
	33.5/110 - 35.1/115				1.52		
	- as 25.9-32.0				1.52		
	Basement	35.1/115					
	- chloritized granodiorite						
	- cuttings green-grey						
	- 10% mafics, 20% chlorite, 70% quartz and feldspar						
	END OF HOLE	51.8/170					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-38
 COLLAR: Joan Lake road drill holes CLAIM NAME: Moraig STARTED: August 31, 1979
 ELEVATION: 1339.38 BEARING: --- COMPLETED: August 31, 1979
 DIP: 90⁰ ULTIMATE DEPTH: 39.62m/130 ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: ---

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 15.2/50 - brown-grey muddy gravel, conglomerate - 20-40% clay - cuttings of basalt and granodiorite boulders	1.5/5	All bags background				
	15.2/50 - 16.8/55 - yellow-brown clayey sand and gravel - medium to coarse grained granitic sand - 5-10% basalt cuttings, 5% rusty grains, 10% granodiorite cuttings, 70% sand and mud		(3200) or lower		1.52	9245	.001

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

HOLE NUMBER: 79-P-38

SHEET NUMBER: 2 of 2

LITHO- LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	16.8/55 - 22.9/75 - pale creamy-brown, clayey bouldery sandstone				1.52		
	- basalt cuttings end at 18.3/60 where sediment becomes a clean arkosic sand				1.52		
	- rusty-brown colour, 21.3/70-22.9/75				1.52	9246	Trace
	22.9/75 - 29.0/95				1.52		
	- olive-green fine sandstone				1.52		
	- 10-20% clay, 10% chlor- itic granodiorite cut- tings, 70-80% fine- sand				1.52	9247	Trace
					1.52		
					1.52		
	Basement - medium-grained, chlor- itized granodiorite - 15% mafics - cuttings grey-green	29.0/95					
	END OF HOLE	39.6/130					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-39

COLLAR: _____ CLAIM NAME: Moraig STARTED: August 31, 1979

ELEVATION: 1337.42 BEARING: _____ COMPLETED: August 31, 1979

DIP: 90° ULTIMATE DEPTH: 54.86m/180ft.

LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	0 - 19.8/65 - grey clayey-gravel and gravelly clay - clay varies from 10 to 50% - sand to gravel size cuttings - boulders of granodiorite and basalt	0	All bags background				
	19.8/65 - 35.1/115 - yellow-brown, medium grained well sorted sandstone - subrounded grains of quartz and feldspar - few fragments granodio- rite - 5% green-brown clay		(3000) or below		1.52	9248	.001
					1.52		
					1.52		
					1.52	9249	.001
					1.52		
					1.52		
					1.52	9250	.001
					1.52		
					1.52		
					1.52	4601	.001
	Basement	35.1/115					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-39 . SHEET NUMBER: 2 of 2

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	- moderately chloritized granodiorite - 15%-20% mafics - cuttings green-grey colour - 1-2% disseminated pyrite 42.7/140 - 54.9/180 END OF HOLE	54.9/180					

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DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-40

COLLAR: _____ CLAIM NAME: Moraig STARTED: August 31, 1979

ELEVATION: 1337.03 BEARING: — COMPLETED: August 31, 1979

DIP: 90° ULTIMATE DEPTH: 9.14m/30ft.

LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Basement</u>	0					
	- leucocratic Valhalla granodiorite		All bags				
	- coarse grained		background				
	- 50% quartz, 50% feldspar, 1% biotite		only				
	END OF HOLE	9.1/30					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-41

COLLAR: — CLAIM NAME: Moraig STARTED: September 1, 1979

ELEVATION: 1334.31 BEARING: — COMPLETED: September 1, 1979

DIP: 90° ULTIMATE DEPTH: 12.19m/40ft.

LOGGED BY: R. Cann PROPOSED DEPTH: —

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	<u>Pleistocene Overburden</u> - bouldery sand & clay - boulders of basalt and granodiorite - cuttings brown at top becoming grey towards base	1.5/5	All bags background only				
	<u>Basement</u> - leucocratic Valhalla muscovite granodiorite	4.6/15					
	END OF HOLE	12.2/40					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-42
 COLLAR: _____ CLAIM NAME: Moraig STARTED: September 1, 1979
 ELEVATION: 1335.96 BEARING: _____ COMPLETED: September 1, 1979
 DIP: 90° ULTIMATE DEPTH: 48.77m/160ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	1.5/5 - 15.2/50 - grey clayey gravel and conglomerate - 10-20% grey clay, 5% coarse basalt and granodiorite cuttings, 75-85% arkosic sand	1.5/5	All bags background (3200) or less		1.52	4602	.001
	15.2/50 - 39.6/130 - olive-green sand and gravel - 10% green clay - fine-grained sand and gravel - 10% green clay - fine-grained arkosic sand - minor coarse cuttings of grandiorite				1.52	4603	Trace
					1.52	4604	Trace
					1.52	4605	Trace
					1.52	4606	Trace
					1.52	4607	Trace
	<u>Basement</u>	39.6/130					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

HOLE NUMBER: 79-P-42

SHEET NUMBER: 2 of 2

DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		U308 CHEMICAL
				INTERVAL (meters)	NUMBER	
<ul style="list-style-type: none"> - soft, chloritic grano- - diorite - 15-20% mafics - cuttings grey to grey - green colour 						
END OF HOLE	48.8/160					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-43
 COLLAR: — CLAIM NAME: Moraig STARTED: September 1, 1979
 ELEVATION: 1334.19 BEARING: — COMPLETED: September 1, 1979
 DIP: 90° ULTIMATE DEPTH: 21.33 m/70 ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: —

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Pleistocene Overburden</u>	0					
	- grey fine sand and gravel, some boulders - boulders of basalt and fresh hornblende grano- diorite - 10% or less clay		All bags background (3000)				
	<u>Basement</u>	12.8/42					
	- grey-green to brown-green chloritic granodiorite - 15% mafics, 40% quartz, 45% feldspar						
	END OF HOLE	21.3/70					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-44

COLLAR: — CLAIM NAME: Moraig STARTED: September 1, 1979

ELEVATION: 1333.07 BEARING: — COMPLETED: September 1, 1979

DIP: 90° ULTIMATE DEPTH: 18.29 m/60ft.

LOGGED BY: R. Cann PROPOSED DEPTH: —

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Pleistocene Overburden</u> - grey gravel, sand and boulders - minor clay - boulders of basalt and granodiorite	0	All bags				
	<u>Basement</u> 10.1/33 - 12.2/40; 16.8/55 - 18.3/60 - leucocratic Valhalla granodiorite - 25% quartz, 70% feldspar, 1-2% mafics 12.2/40 - 16.8/55 - chloritic granodiorite weakly	10.1/33	background (2600)				
	END OF HOLE	18.3/60					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard

SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-82

COLLAR: 1307.74N, 786.75 CLAIM NAME: Moraig STARTED: September 13, 1979

ELEVATION: 1296.08 BEARING: — COMPLETED: September 13, 1979

DIP: 90 ULTIMATE DEPTH: 6.10m/20ft.

LOGGED BY: R. Cann PROPOSED DEPTH:

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>pleistocene Overburden</u> - grey-brown bouldery sand - 95% granitic boulders, 5% basaltic	0					
	<u>Basement</u> - coarse-grained, slightly chloritic granodiorite - 5% mafics, 10% quartz, 85% feldspar - cuttings light grey	1.5/5	All bags below background (2500)				
	END OF HOLE	6.1/20					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10
 COLLAR: 1375.80N, 809.77W CLAIM NAME: Moraig HOLE NUMBER: 79-P-83
 ELEVATION: 1303.62 BEARING: _____ STARTED: September 13, 1979
 DIP: 90 COMPLETED: September 13, 1979
 LOGGED BY: R. Cann ULTIMATE DEPTH: 7.62m/25ft.
 PROPOSED DEPTH: _____

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	<u>Pleistocene Overburden</u> - dark brown and grey-brown bouldery sand and silt - boulders of basalt - 15% clay	1.5/5	All bags below background				
	<u>Basement</u> - mafic rich, chloritic granodiorite - 25% hornblende, 10% quartz, 65% feldspar - medium grained - cuttings light grey	3.4/10	(2700)				
	END OF HOLE	7.6/25					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 2 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-84
 COLLAR: 1420.77N, 967.61W CLAIM NAME: Moraig STARTED: September 13, 1979
 ELEVATION: 1318.35 BEARING: — COMPLETED: September 13, 1979
 DIP: .90 ULTIMATE DEPTH: 15.24m/50ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: —

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	No cuttings	0					
	<u>Quaternary Overburden</u> 1.5/5 - 4.6/15 - pale grey-brown gravelly sand - pebbles of granodiorite and basalt	1.5/5	All bags 2500-2800				
	4.6/15 - 7.6/25 - grey gravelly sand - boulders of basalt and granodiorite		(Background = 3300)				
	7.6/25 - 9.1/30 - grey, clayey sand and gravel - pebbles of basalt, granodiorite and feldspar						

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard . HOLE NUMBER: 79-P-84 SHEET NUMBER: 2 of 2

PRO- JECT	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	3 CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<p>placement</p> <ul style="list-style-type: none"> - mafic rich granodiorite - medium grained - 40% mafics, 10% quartz, 50% feldspar - slightly chloritic - speckled appearance due to mafics - cuttings dark green-grey 	9.1/30					
	END OF HOLE	15.2/50					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

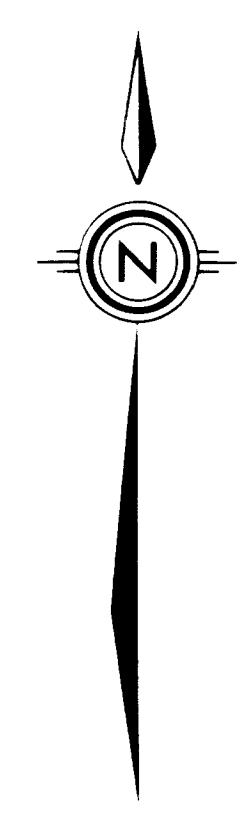
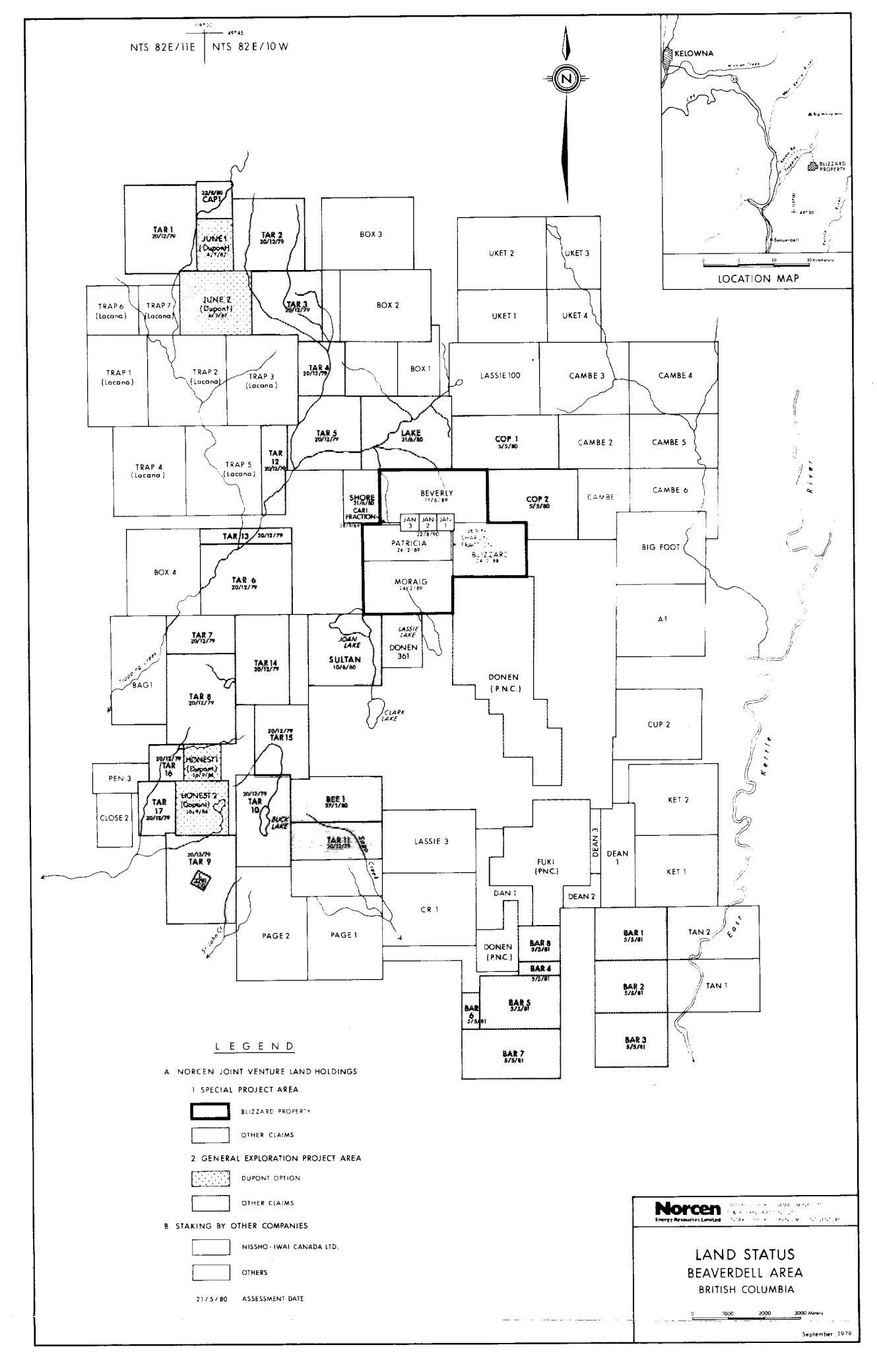
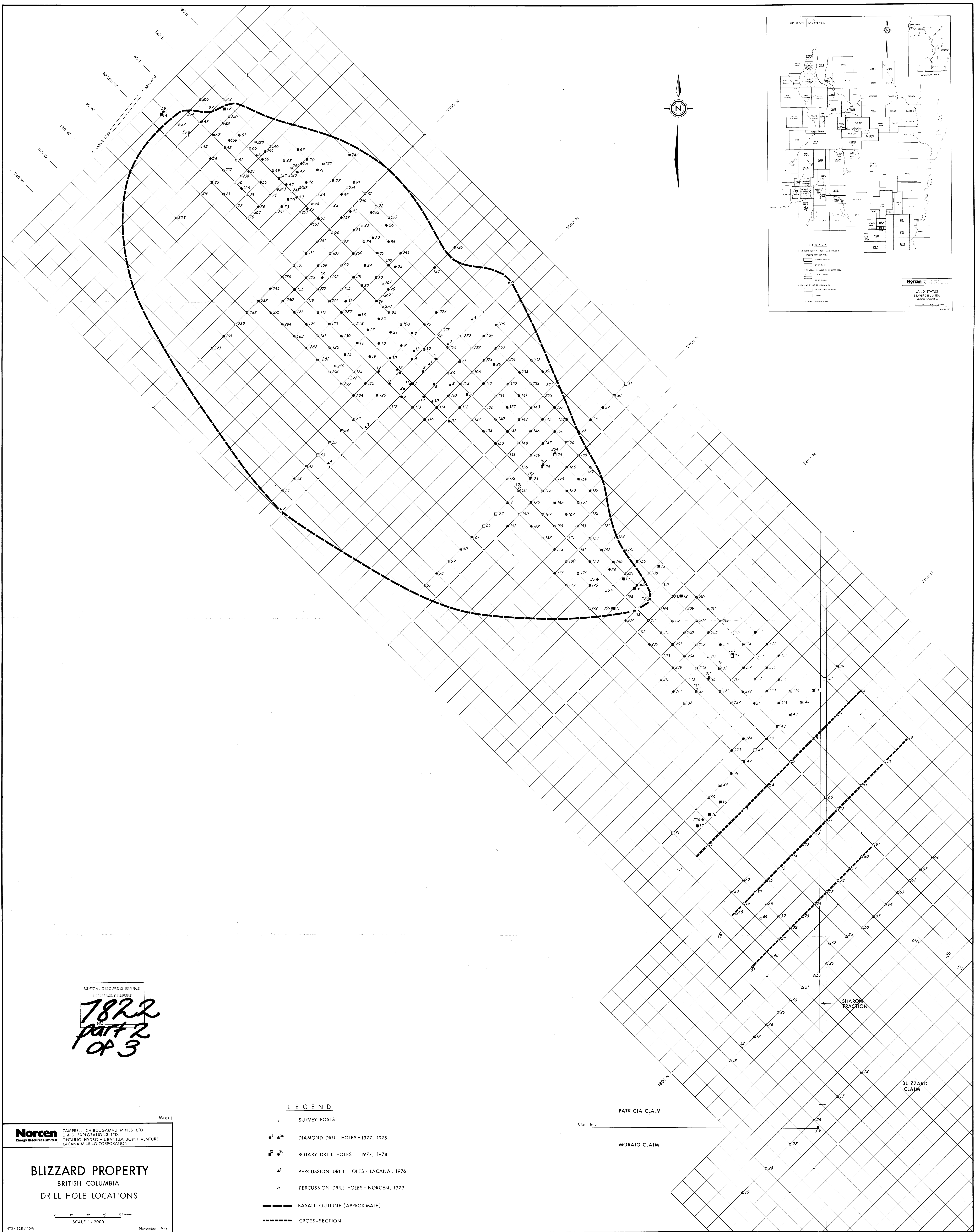
PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10
 COLLAR: 1220.64N, 1177.44W CLAIM NAME: Moraig HOLE NUMBER: 79-P-85
 ELEVATION: 1305.70 BEARING: --- STARTED: September 13, 1979
 DIP: 90 COMPLETED: September 13, 1979
 LOGGED BY: R. Cann ULTIMATE DEPTH: 9.14m/30ft.
 PROPOSED DEPTH: ---

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	UJOB CHEMICAL
	<u>Pleistocene Overburden</u> 0 - 1.8/6 - rusty brown coarse sand - minor clay - basaltic and granitic chips 1.8/6 - 3.7/12 - mixed rusty brown and grey, gravelly and bouldery sand - pegmatitic boulders common	0	All bags background (3000)				
	<u>Basement</u> - mafic rich granodiorite - 40% mafics, 10% quartz, 50% feldspar - locally rusty chips - fine to medium grained - cuttings light grey, locally green where chloritic	3.7/12					
	END OF HOLE	9.1/30					

NORCEN ENERGY RESOURCES LIMITED
DIAMOND DRILL RECORD - URANIUM

PROPERTY: Blizzard
 SHEET NUMBER: 1 of 1 N.T.S. NUMBER: 82E/10 HOLE NUMBER: 79-P-86
 COLLAR: 1286.82N, 1070.96 CLAIM NAME: Moraig STARTED: September 13, 1979
 ELEVATION: 1305.80 BEARING: — COMPLETED: September 13, 1979
 DIP: 90 ULTIMATE DEPTH: 6.10m/20ft.
 LOGGED BY: R. Cann PROPOSED DEPTH: —

LITHO-LOG	DESCRIPTION	DEPTH (meters/ft)	TV-1A BAG COUNT cpm	% CORE RECOVERY	ASSAY		
					INTERVAL (meters)	NUMBER	U308 CHEMICAL
	<u>Pleistocene Overburden</u> - brown clayey, boulder sand - boulders of granite, syenite and basalt - wood cuttings	0	2000-				
	<u>Basement</u> - mafic rich, medium grained granodiorite - 40% mafics (moderately chloritized), 10% quartz, 50% feldspar - minor hematite on fractures - cuttings green-grey	2.7/9	2500 (background =2200)				
	END OF HOLE						



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- LEGEND**
- SURVEY POSTS
 - ⊙³⁴ DIAMOND DRILL HOLES - 1977, 1978
 - ⊞³⁰ ROTARY DRILL HOLES - 1977, 1978
 - ▲¹ PERCUSSION DRILL HOLES - LACANA, 1976
 - △ PERCUSSION DRILL HOLES - NORCEN, 1979
 - BASALT OUTLINE (APPROXIMATE)
 - CROSS-SECTION

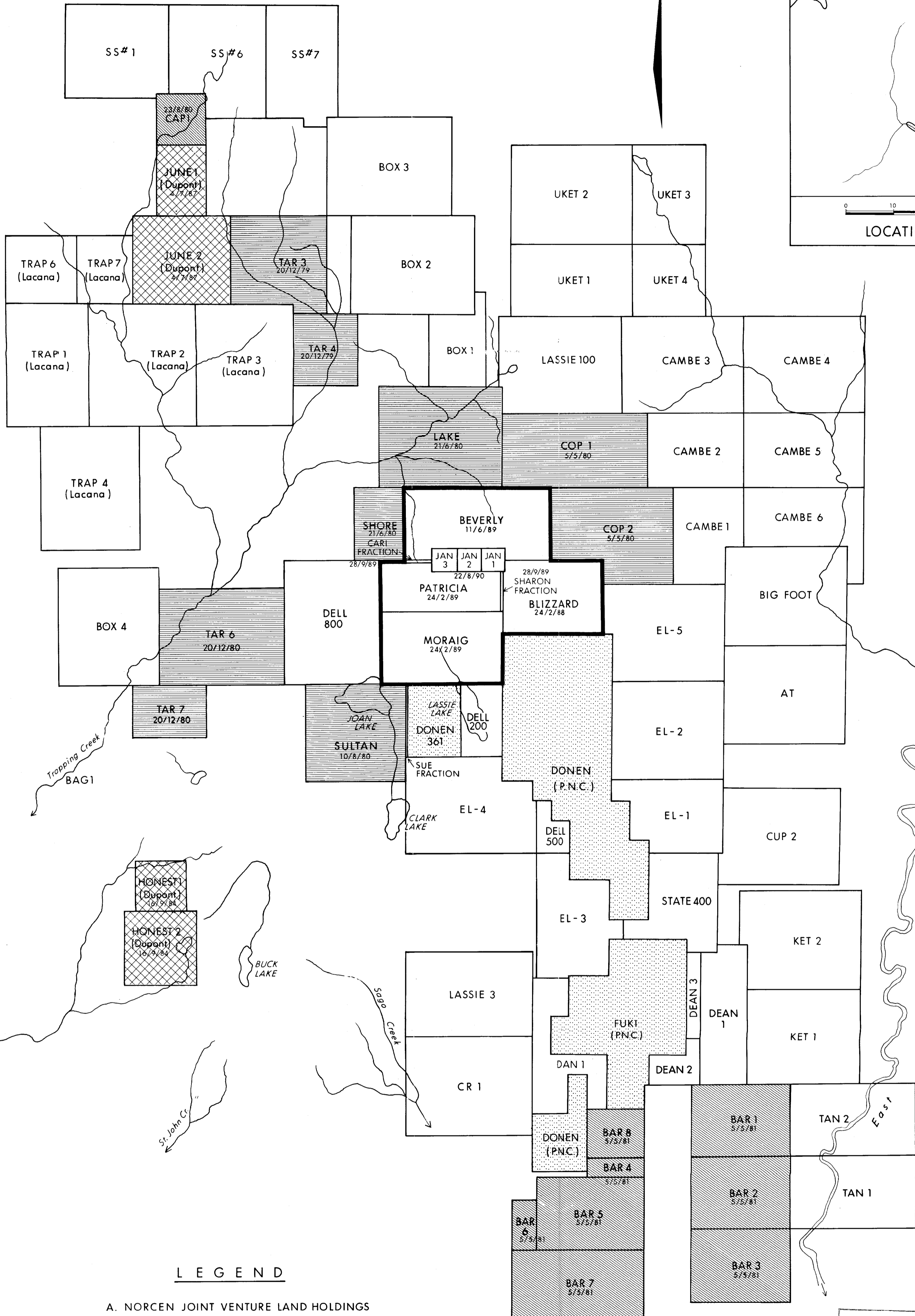
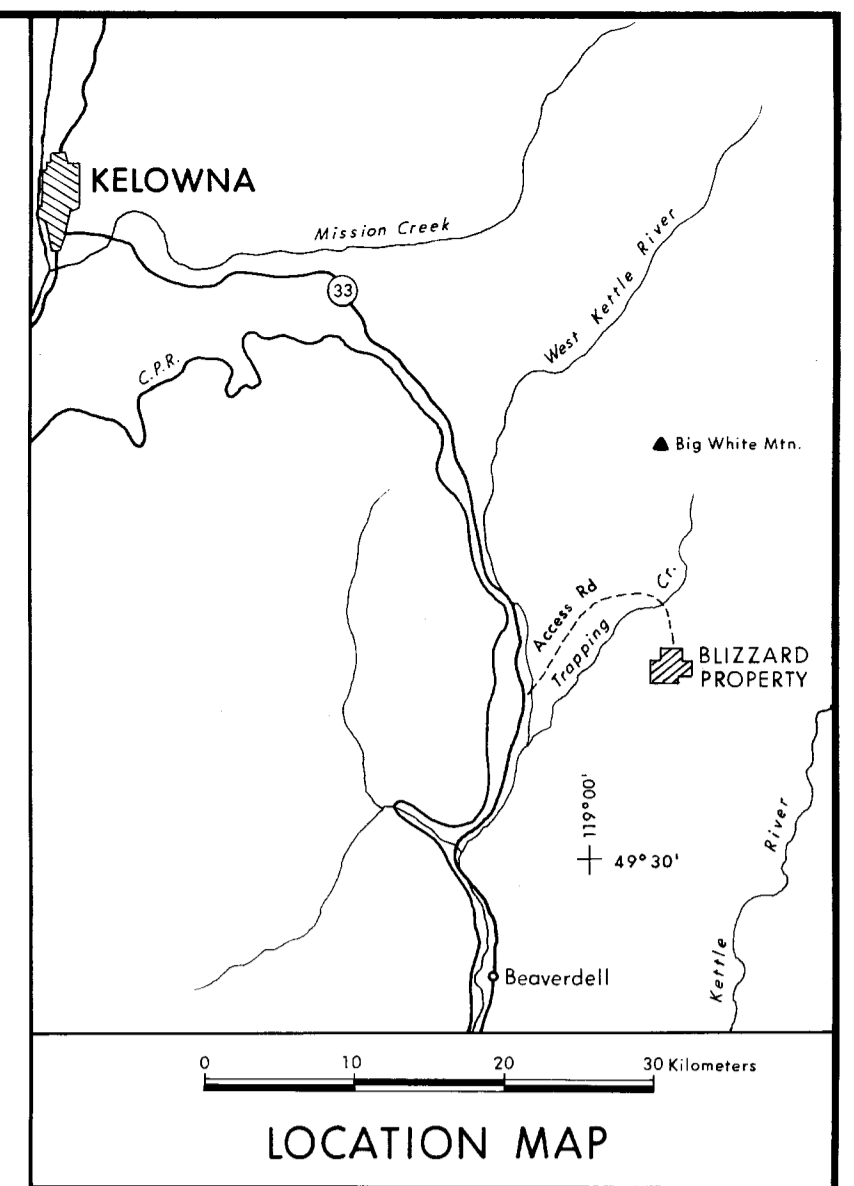
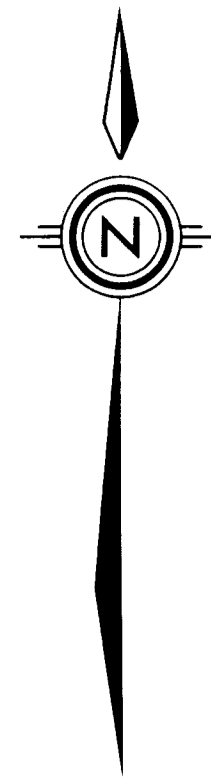
Norcen CAMPBELL CHIBOUGAMAU MINES LTD.
E & B EXPLORATIONS LTD.
ONTARIO HYDRO - URANIUM JOINT VENTURE
LACANA MINING CORPORATION

BLIZZARD PROPERTY
BRITISH COLUMBIA
DRILL HOLE LOCATIONS

0 20 40 60 80 100 METERS
SCALE 1:2000

November, 1979

119°00' 49°45'
 NTS 82E/11E NTS 82E/10W



LEGEND

A. NORCEN JOINT VENTURE LAND HOLDINGS

- 1. SPECIAL PROJECT AREA**
- BLIZZARD PROPERTY
 - OTHER CLAIMS

- 2. GENERAL EXPLORATION PROJECT AREA**
- DUPONT OPTION
 - OTHER CLAIMS

B. STAKING BY OTHER COMPANIES

- NISSHO-IWAI CANADA LTD.
- OTHERS

21 / 5 / 80 ASSESSMENT DATE

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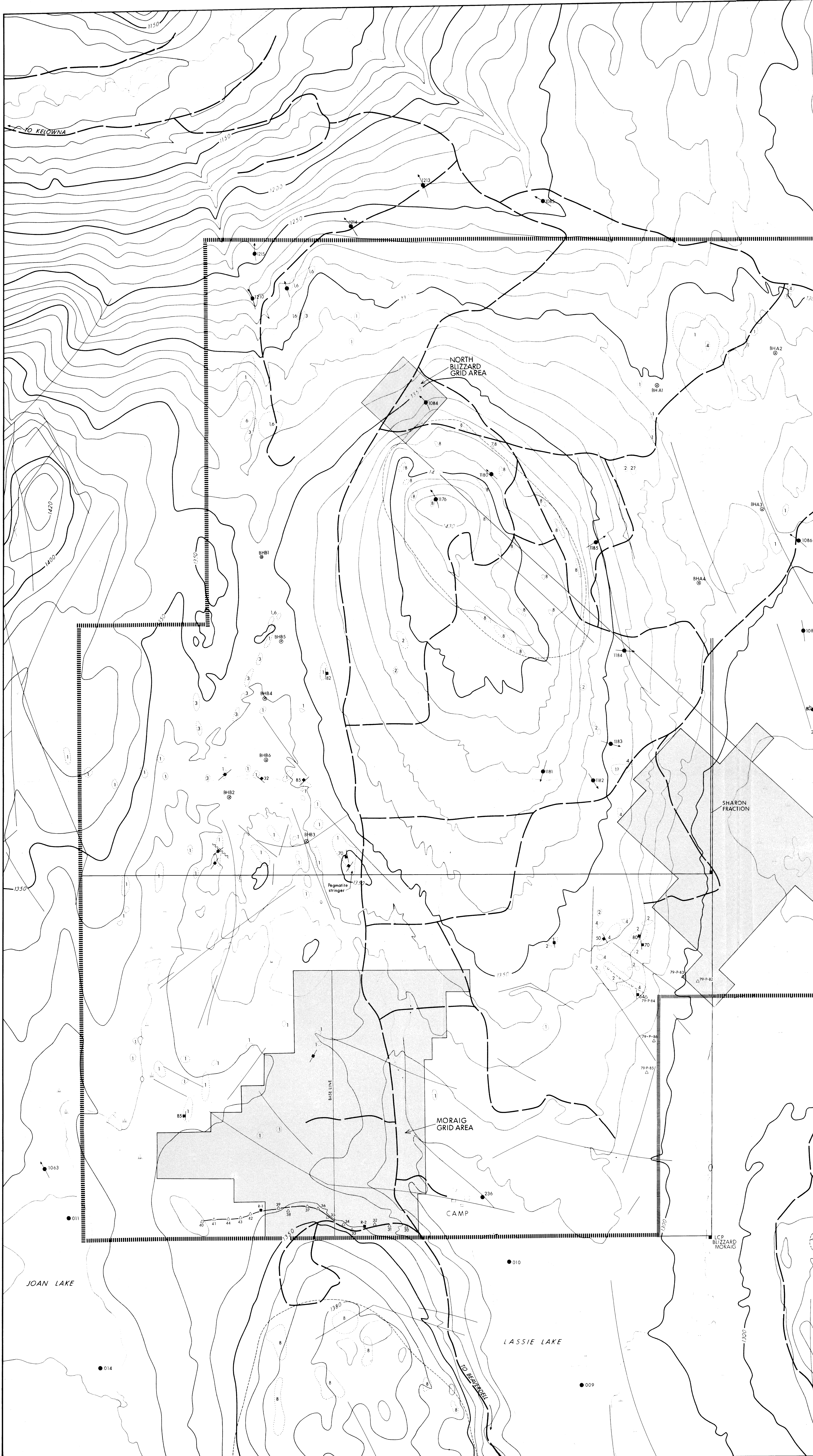
MAP 1

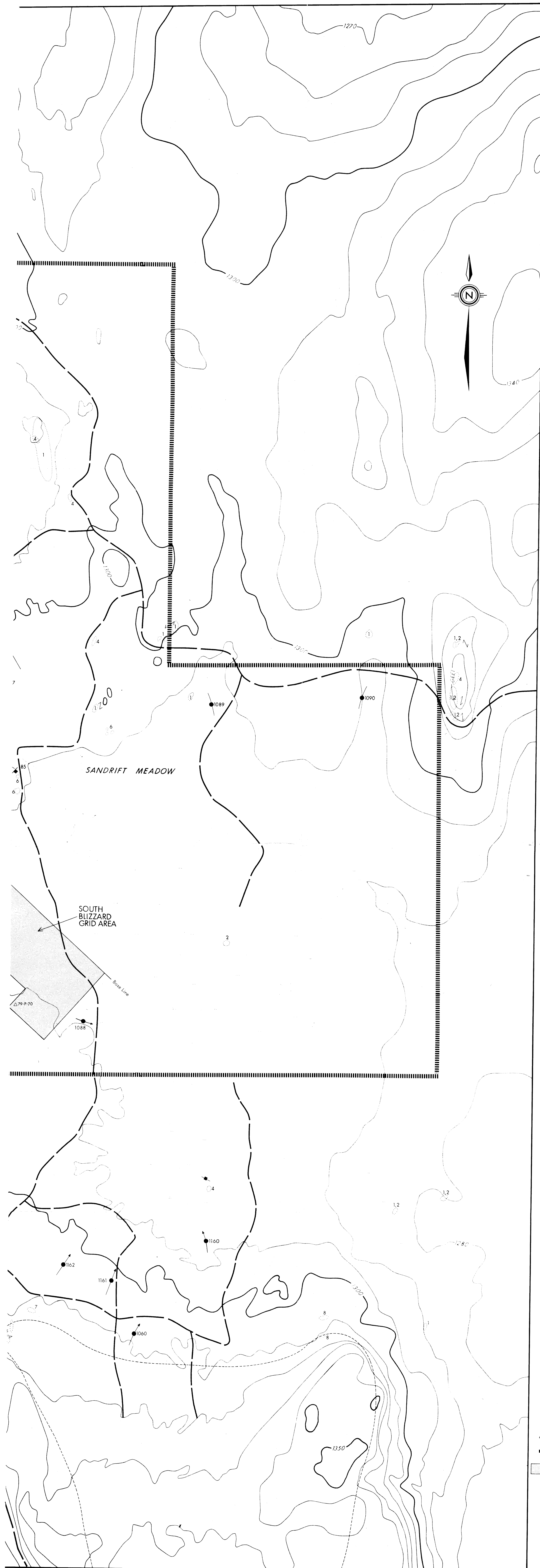
Norcen CAMPBELL CHIBOUGAMAU MINES LTD.
 Energy Resources Limited E & B EXPLORATIONS LTD.
 ONTARIO HYDRO-URANIUM JOINT VENTURE

LAND STATUS
BEAVERDELL AREA
BRITISH COLUMBIA

0 1000 2000 3000 Meters

FEBRUARY, 1980





GEOLOGICAL COLUMN

CENOZOIC	PLEISTOCENE	-	Gravel and Sand
	TERTIARY	MIOCENE	8 Olivine basalt
		7	Loosely Consolidated Sediments (Sand, Silt, Clay, Gravel)
MESOZOIC	CRETACEOUS	6	Pegmatite
		5	Amphibolite
		4	Mafic Dykes
		3	Felsic Dykes
		2	Nelson Plutonic Rocks - Hornblende Granite Granodiorite, locally foliated
	1	Valkalla Plutonic Rocks - Porphyritic Biotite Granite - Granodiorite	

* Note: Relative chronological order of Cretaceous rocks unknown

SYMBOLS

- DRAINAGE
- INTERMITTENT STREAM
- ACCESS ROAD
- OUTLINE OF BASALT (APPROX.)
- G.S.C. SAMPLE LOCATION (STREAM WATER SAMPLE)
- G.S.C. SAMPLE LOCATION (LAKE WATER SAMPLE)
- OUTCROP
- INFERRED GEOLOGICAL CONTACT
- LINEAMENTS
- BLIZZARD PROPERTY BOUNDARY
- DRILL HOLE LOCATION
- FOLIATION ATTITUDE
- JOINT ATTITUDE
- FAULT

- Δ 70 PERCUSSION DRILL HOLE - 1979 (not on map 9)
- R-1 ROTARY DRILL HOLE - 1977
- AREAS COVERED BY 1979 RADON AND URANIUM IN SOIL SURVEYS.

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MAP 2

Norcen CAMPBELL CHIBOUGAMAU MINES LTD.
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Energy Resources Limited ONTARIO HYDRO-URANIUM JOINT VENTURE

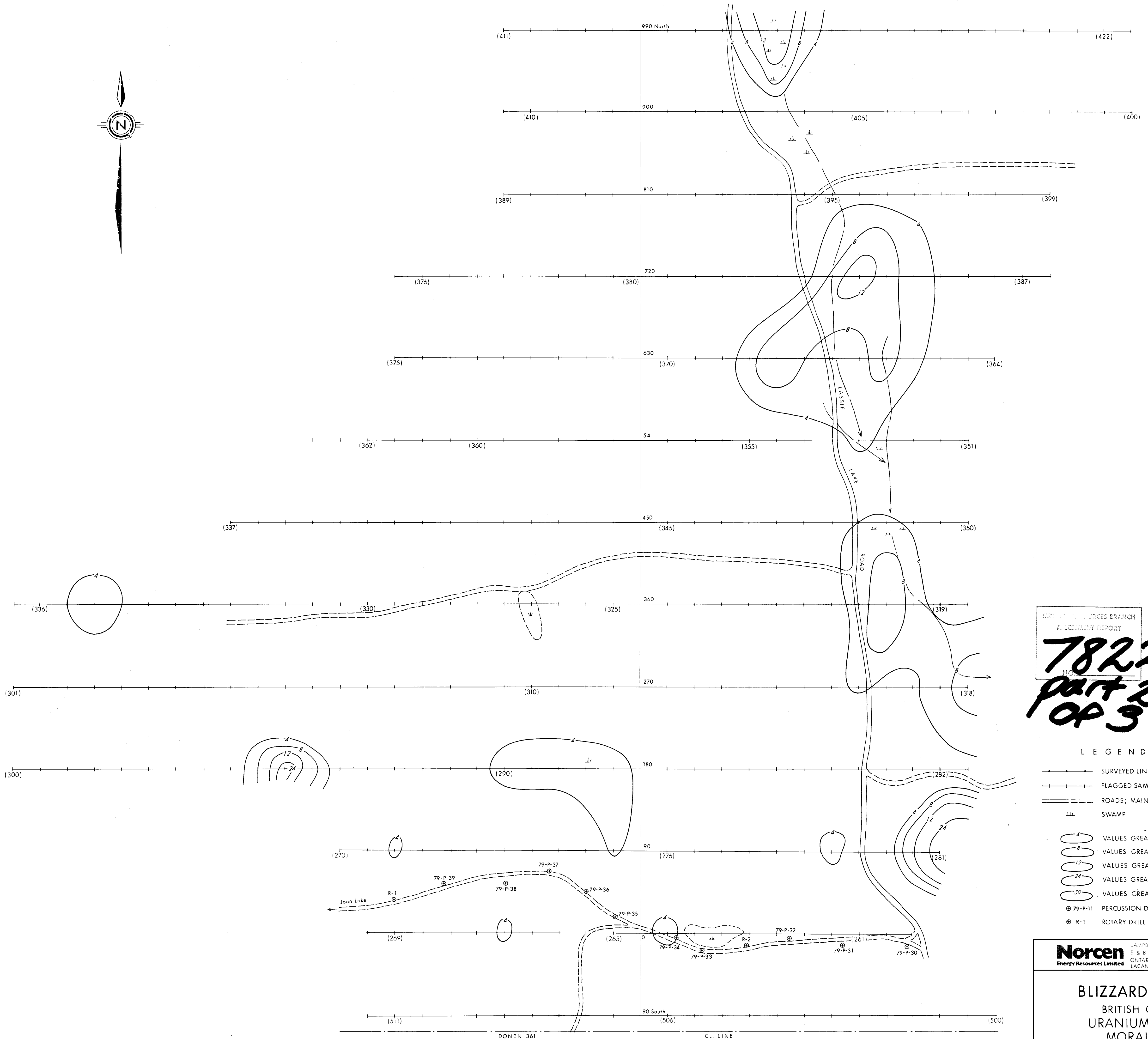
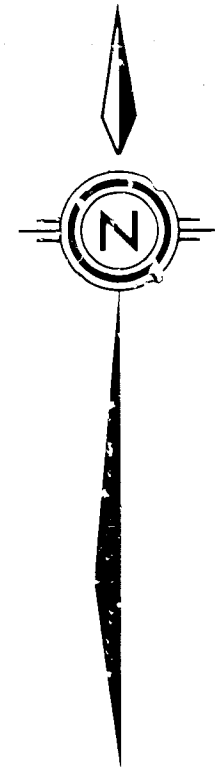
(LACANA MINING CORPORATION OPTION)

**GEOLOGICAL COMPILATION
BLIZZARD PROPERTY
BRITISH COLUMBIA**

0 50 100 150 200 Metres
SCALE - 1:5,000

NOVEMBER, 1979

WEST 660 600 540 480 420 360 300 240 180 120 60 0 60 120 180 240 300 360 420 480 540 EAST



LEGEND

- SURVEYED LINE WITH METAL POSTS
- FLAGGED SAMPLE STATIONS
- ROADS; MAIN LOGGING, SECONDARY
- ≡ SWAMP
- (4) VALUES GREATER THAN 4 ppm U₃O₈
- (8) VALUES GREATER THAN 8 ppm U₃O₈
- (12) VALUES GREATER THAN 12 ppm U₃O₈
- (24) VALUES GREATER THAN 24 ppm U₃O₈
- (50) VALUES GREATER THAN 50 ppm U₃O₈
- ⊙ 79-P-11 PERCUSSION DRILL HOLE, 1979
- ⊙ R-1 ROTARY DRILL HOLE, 1977

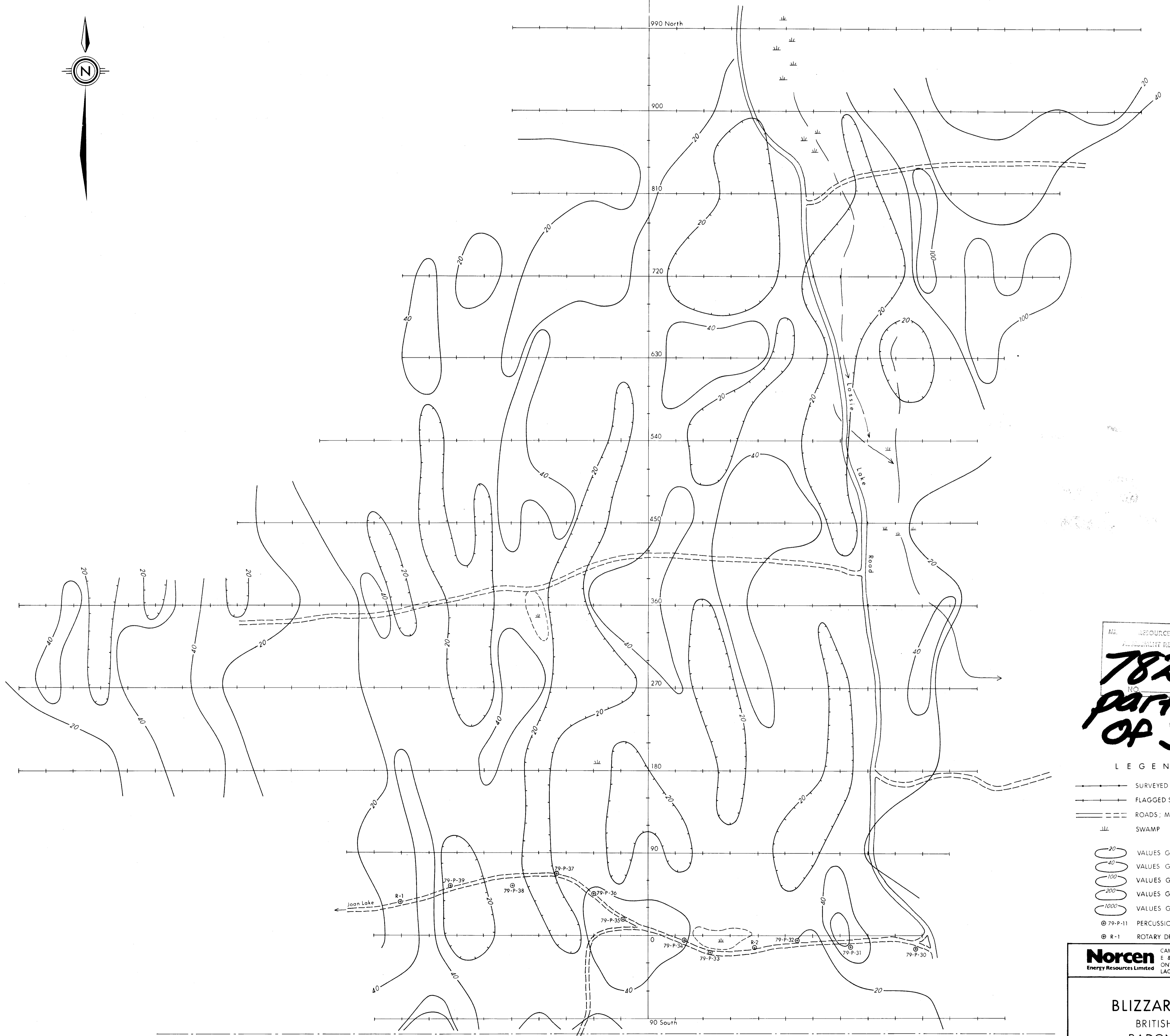
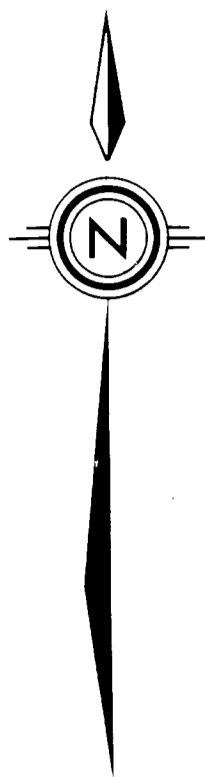
Norcen Energy Resources Limited
 CAMPBELL, CHIBOUSSAMAU MINES, E & B EXPLORATIONS LTD., ONTARIO HYDRO, LACANA MINING CORPORATION

BLIZZARD PROPERTY
 BRITISH COLUMBIA
 URANIUM IN SOILS
 MORAIG GRID

SCALE 1:2000

November, 1979

WEST 660 600 540 480 420 360 300 240 180 120 60 0 60 120 180 240 300 360 420 480 540 EAST



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LEGEND

- SURVEYED LINE WITH METAL POSTS
- FLAGGED SAMPLE STATIONS
- ROADS: MAIN LOGGING, SECONDARY
- SWAMP
- VALUES GREATER THAN 20 cpm
- VALUES GREATER THAN 40 cpm
- VALUES GREATER THAN 100 cpm
- VALUES GREATER THAN 200 cpm
- VALUES GREATER THAN 1000 cpm
- 79-P-11 PERCUSSION DRILL HOLE, 1979
- R-1 ROTARY DRILL HOLE, 1977

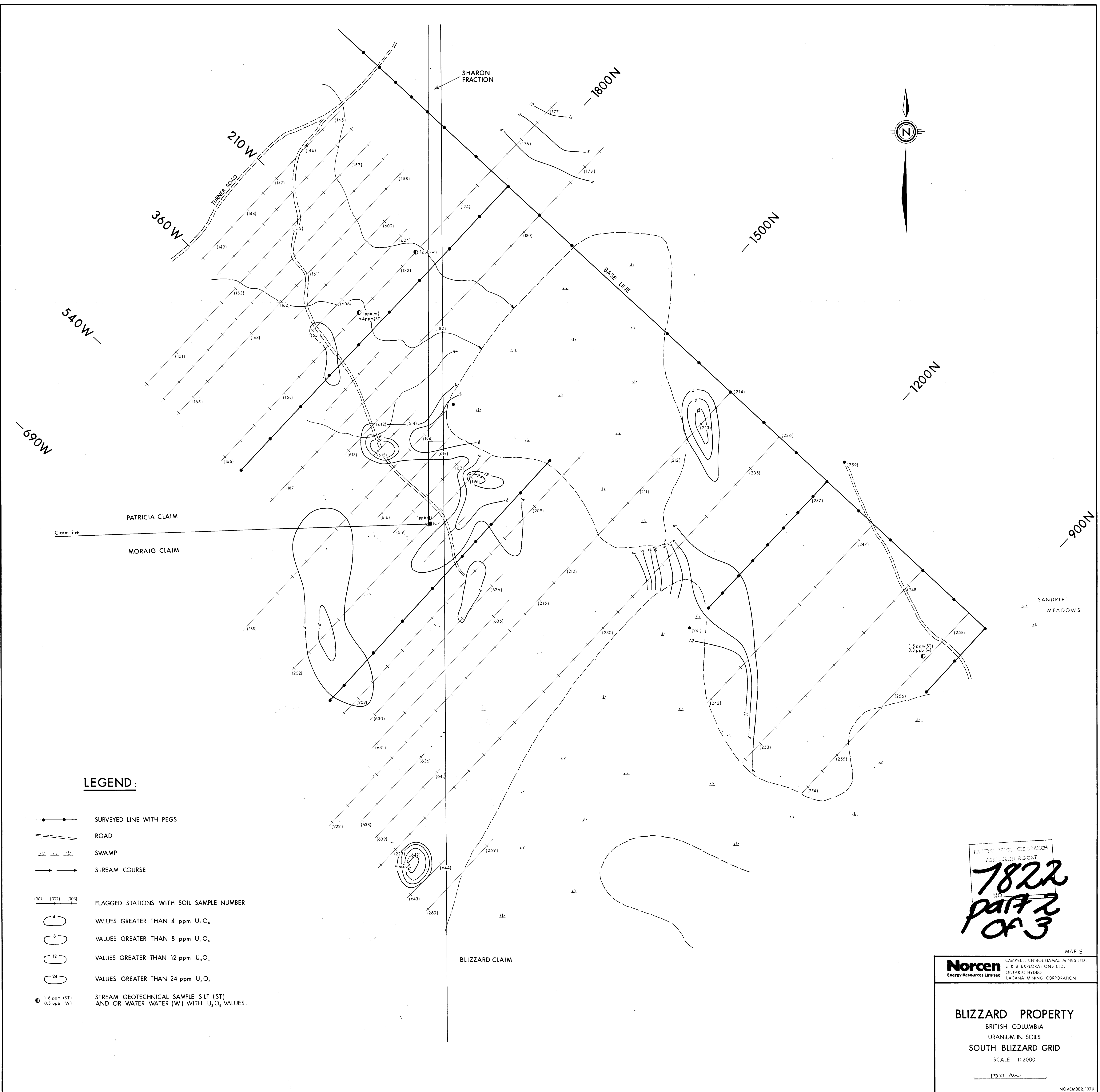
Map 5

Norcen Energy Resources Limited
CAMPBELL CHIBOUGAMAU MINES LTD.
& B EXPLORATIONS LTD.
ONTARIO HYDRO
LACANA MINING CORPORATION

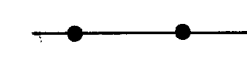
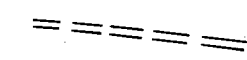
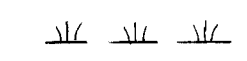
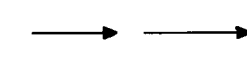
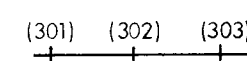
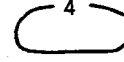
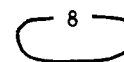
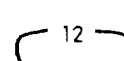
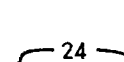
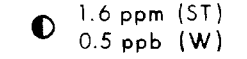
BLIZZARD PROPERTY
BRITISH COLUMBIA
RADON IN SOILS
MORA IN GRID

SCALE 1:2000
100 m

November, 1979



LEGEND:

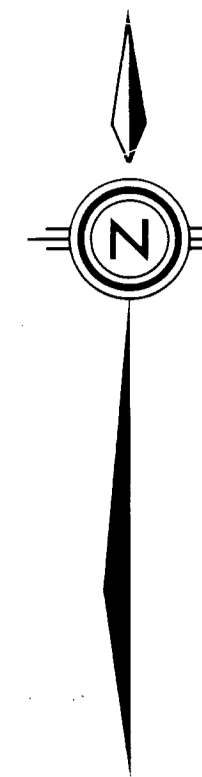
-  SURVEYED LINE WITH PEGS
-  ROAD
-  SWAMP
-  STREAM COURSE
-  FLAGGED STATIONS WITH SOIL SAMPLE NUMBER
-  VALUES GREATER THAN 4 ppm U_3O_8
-  VALUES GREATER THAN 8 ppm U_3O_8
-  VALUES GREATER THAN 12 ppm U_3O_8
-  VALUES GREATER THAN 24 ppm U_3O_8
-  STREAM GEOTECHNICAL SAMPLE SILT (ST) AND OR WATER (W) WITH U_3O_8 VALUES.

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Norcen Energy Resources Limited
 CAMPBELL CHIBOUGAMAU MINES LTD.
 E. & S. EXPLORATIONS LTD.
 ONTARIO HYDRO
 LACANA MINING CORPORATION

BLIZZARD PROPERTY
 BRITISH COLUMBIA
 URANIUM IN SOILS
 SOUTH BLIZZARD GRID
 SCALE 1:2000
 100 m

NOVEMBER 1979



SHARON FRACTION

Turner Road

PATRICIA CLAIM

MORAIG CLAIM

SANDRIFT MEADOWS

BLIZZARD CLAIM

Claim line

Base Line

LEGEND

- SURVEYED LINE WITH PEGS
- ROAD
- SWAMP
- STREAM COURSE
- FLAGGED STATIONS
- VALUES GREATER THAN 40 cpm
- VALUES GREATER THAN 100 cpm
- VALUES GREATER THAN 200 cpm

LIMITED CIRCULARS BRANCH
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Map 4

Norcen Energy Resources Limited
CAMPBELL CHIRIQUIGAMAU MINES LTD.
E & B EXPLORATIONS LTD.
ONTARIO HYDRO
LACANA MINING CORPORATION

BLIZZARD PROPERTY
BRITISH COLUMBIA
RADON IN SOILS
SOUTH BLIZZARD GRID

SCALE 1: 2000

100 M

November, 1979