## MAR 19790013: SLAVE LAKE

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19790013

## OVERBURDEN GEOCHEMISTRY AND DRILLING REPORT

## SLAVE PROJECT, NORTHEAST ALBERTA QUARTZ MINERAL EXPLORATION PERMITS 6878020001 and 6878020002 TWP 125, 126, R 10-13, W4M N.T.S. 74-M-13, 84-P-16

on behalf of MARLINE OIL CORPORATION CALGARY, ALBERTA

bу

TAIGA CONSULTANTS LTD. #301, 1300 - 8th Street S.W. CALGARY, ALBERTA T2R 1B2

JUNE 30, 1979

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C. F. Gleeson maps to accompany Feb.14/79 report

#### INTRODUCTION

The 1978 field program of lake sediment and water geochemistry, prospecting, geological mapping, and soil geochemistry delineated five significant uranium anomalies within the permit boundaries.

During the winter of 1979, 26.5 km of cut, chained and picket grid lines were established in three select areas.

In view of the complex surficial environment of the property, three of the uranium anomalies were subjected to a detailed overburden geochemical profiling by means of a "Pionjar" drill test. This work was undertaken by R. Cormier & Associates Ltd., of Bécancour, Quebec, during the period March 21 to April 6, 1979. Fifty samples were retrieved from 26 holes.

The Pionjar sampling technique proved to be inadequate in those areas where the overburden exceeded 30 meters in thickness. Subsequently, a reversecirculation rotary drill contract was let to McAuley Drilling Ltd., of Sherwood Park, Alberta. Nine holes, totalling 436.5 m, were drilled during the period April 14 to 23, 1979.

Geochemical analysis of the continuous overburden profile and drilled subcrop indicated no significant uranium values.

Pending a detailed review of the project in its entirety, no further field investigations appear warranted at this time.

#### 1978 FIELD RESULTS

The reader is referred to the writer's report entitled "A Preliminary Geological and Geochemical Evaluation of the Slave Project, Northeast Alberta" dated November 15, 1978, for a summary of the geologic environment and results of the two previous field examinations by Marline Oil Corporation. A subsequent review and statistical presentation of the geochemical survey data by C. F. Gleeson & Associates Ltd., February 14, 1979, is presented for reference in the appendix of this report.

#### PIONJAR DRILL OVERBURDEN SAMPLING

#### Technique

In order to investigate the nature of the source of the surficial geochemical anomalies, Pionjar drill sampling of the overburden profile and basal till were undertaken. The work was conducted by R. Cormier & Associates Ltd., under the direct supervision of the writer.

The sampling equipment consisted of two portable gasoline-powered Pionjar hammer drills (approximately the size of a hand-held jack hammer).

The hammer drill utilizes light-weight, solid, l' diameter, threadjoined extension rods with a piston-type stainless steel sampler. The sampler is driven into the overburden by the jackhammer-like percussion action of the Pionjar to the desired depth. The sampler end has a retractable point which is then opened by turning the string of extension rods. The sampler is again driven into the overburden, thereby compression filling the open piston end. The resultant sample is approximately 6" in length and 3/4" in diameter.

The rods and sampler are extracted from the hole using a 10-ton manual jack at shallow depths, or a 20-ton hydraulic puller.

The entire retrieved sample was analyzed fluorometrically for uranium by Bondar-Clegg & Company Ltd.

Drill hole sites were established on cut and picket grids. Mobilization of the drill equipment was accomplished by snowmobile on hand-cut trails.

#### Results

Three uranium in lake water anomalies were investigated by the Pionjar overburden sampling techniques. These are briefly described below:

- 3 -

1. Hill South Grid (c.f. Map 78-3, Sheet 2 of 4; DWGS. 79-1, 79-2) l6 overburden samples, most of which were obtained from the base of the alluvial till (basal till), were retrieved from 13 holes. The holes almost uniformly penetrated 0.5m to 1.0m of muskeg, 8m to 11m of silty clay (lacustral deposits), and 0.1m to 1.0m of alluvial till.

Three 250m spaced grid lines were cut, picketed, and chained over the anomaly. The grid was unsuccessfully surveyed twice with a proton magnetometer, both sets of data being rendered useless by intense magnetic størms.

2. Four Mile Lake Grid (c.f. Map 78-3, Sheet 3 of 4; DWG. 79-3) T7 overburden samples were obtained from 6 holes, none of which penetrated to the subcrop. The overburden profile consists of 0.5m to 2.0m of muskeg, 37m to 50m of lacustral silty clay, and 0 to l.0m of alluvial till.

Four holes not shown on Section C-C (DWG. 79-3) were abandoned at depths in the order of 20m without retrieving a sample. All of the holes indicated on DWG. 79-3 were abandoned at depths of 21m to 40m due to either drilling or rod-retrieval limitations.

14.5 km of picket grid lines were cut and chained in preparation for a proton magnetometer survey. The survey was not undertaken due to intense magnetic storms at the time of the drill program.

- 3. 4 km southwest of Ft. Smith (c.f. Map 78-3, Sheet 3 of 4; DWG 79-5) One Pionjar hole was attempted in this locale and was abandoned without retrieving a sample at 36.5m.
- 4. Peace Point Road (southwest of Four Mile Lake; c.f. Map 78-3, Sheet 4 of 4; DWG 79-4)

A series of 6 holes along the Peace Point Road, starting southwest of the property and progressing northeast toward Four Mile Lake, were intended as a cross-section of the subcrop topography and to geochemically probe several NE and NW trending lineaments.

- 4 -

The first five holes reached the subcrop at depths of 7m to 17m; the sixth hole in the sequence was abandoned in lacustral silty clay at the drilling limit of 36m. An additional planned 12 holes were subsequently deleted from the program.

#### ROTARY DRILL PROGRAM

#### Technique

A truck-mounted Failing 1500 dual-wall reverse-circulation drill with 4" diameter pipe was utilized for the final examination of the above noted sites. Drilling was undertaken with an air-water mixture, as air alone failed to yield an adequate return in the high clay component overburden. Sample return in the top lm to 3m of muskeg was poor to nonexistent as the pressure simply "pushed" the indurated organic material out beneath the ground-frost cover. The drill was outfitted with a deck drive (as opposed to a top drive) which resulted in caving problems during drill string addition and subsequent contamination of drill cuttings.

Generally, a 99-100% drill cutting return was achieved from a depth of 2m or 3m to T.D. Minor cutting loss was also encountered in the thin (0 to 1.5m) alluvial till which occurs at the Paleozoic-Precambrian unconformity.

Cutting returns were caught in 40 mesh, 2' diameter cones set beneath a cyclone. Cuttings were not washed due to the prevailing sub-freezing temperatures.

The cuttings were bagged at an average of 10 pounds per meter (or two meters). Subsequently, the samples were dried and split into two 8 to 16 ounce portions; one retained for future reference and one analyzed fluoro-metrically for uranium by Loring Laboratories.Ltd., of Calgary. All of the 10-1b sample bags were radiometrically screened with a SRAT SPP2 scintil-lometer at the drill site.

Two-inch PVC pipe was left in all holes for future down-hole radiometric logging.

A total of 6.5 km of drill access road was cut with a D-7 Caterpillar.

Results (drill logs included in appendix)

No significant radioactivity was noted on site with the scintillometer. Nevertheless, all of the drill cuttings were submitted for uranium geochemical analysis.

Geochemical values ranged from nil to 4.7 ppm U (average less than 2 ppm) with a single sample in hole RT-3 returning 11.2 ppm U over the interval 38-39m (basement granite). All holes T.D.'d in granite.

The Paleozoic stratigraphic succession encountered, from top to bottom, is tenuously correlated with the Middle Devonian regionally described section as follows:

> outcrop). 0-15m thick.

KEG RIVER FM.

UPPER CHINCHAGA

CHINCHAGA- HAY

LOWER CHINCHAGA

CAMP MEMBER

a dominantly evaporitic sequence of anhydrite, gypsum, with minor mudstone and siltstone. 15-25m thick.

light buff to grey, fine-grained, fetid,

gypsiferous limestone (fossiliferous in

buff to light brown limestone, occasionally silty. Generally fetid plus bitumen seams on bedding planes. Possibly brecciated. 1.5-3.0m thick.

a rapidly alternating sequence of dark red and pale green siltstones, minor mudstone, gypsum and anhydrite. Commonly fetid; bitumen seams to 1/4" thick prevalent throughout. 6.5-9.5m thick.

FITZGERALD FM.

cryptocrystalline to aphanitic, light buff dolomite; very minor underlying siltstone (occasionally incorporating angular granitic clasts) 1.0-6.5m thick.

1.0-6.5m thick.

unconformity?

ALLUVIAL TILL

coarse sand to cobble size; well rounded to sub-rounded (rarely sub-angular). Composed predominantly of granite, granite gneiss, and amphibolite pebbles with a minor variable Paleozoic component. No cementing evident. 0-3 m thick (average 0.5m)

major unconformity

GRANITE

felsic granite, pale orange to pink, 5-10% amphibole, trace biotite (10-20% c.g. muscovite in hole RI-5). Intensely weathered and friable for 0.5 meters.

No Paleozoic section was encountered in holes RT-7 and RT-9. There is no evidence of La Loche Formation or regolithic development.

#### CONCLUSIONS & RECOMMENDATIONS

The rotary drilling program was terminated prior to an intended fence of holes along the Peace Point - Four Mile Lake road as a consequence of the discouraging results obtained to date.

Although one abnormally high background value was encountered (11.2 ppm U in granite in hole RT-3), the anomalous uranium in lake water and sediments appears to be exclusively related to the surficial environment. Uranium in muskeg waters is probably concentrated by salt springs and continual evaporation in ponds that average less than 5' deep.

No further work is warranted at the present time.

J. R. Allan. P.Geol THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALCENTA PERMIT NUMBER P 2399 TAIGA CONSULTANTS LTD.

## APPENDIX

== TAIGA CONSULTANTS LTD. =

## SUMMARY OF PERSONNEL MARCH-JUNE 1979 SLAVE PROJECT, NORTHEAST ALBERTA

Pe	ersonnel		Address	Man Days
J	.R. Allan, P.Geol.	Supervisor	Taiga Consultants Ltd.	41.25
C	.H. Aussant	Geologist	11	10
R	. Cormier	Drill Supervisor	R. Cormier & Associates Ltd Bécancour, Quebec	13
А	. Mercier	Line Cutter	н	17
F	. Mercier	Line Cutter	н	17·
С	. Sylvestor	Line Cutter	Buffalo Narrows, Sask.	20
J	. Thibault	Driller	R. Cormier & Associates Ltd Bécancour, Quebec	20
C	. Poulain	Driller	н	17
R	. Lacoursiere	Driller	н .	13
M	. Lessard	Driller	H	13
D	. McAuley	Drill Supervisor	McAuley Drilling Sherwood Park, Alta.	14
D	. MacBeth	Driller	n	14
W	. Dayman	Driller	H	_14
			TOTAL	223.25

## SUMMARY OF EXPENDITURES MARCH-JUNE 1979

## SLAVE PROJECT, NORTHEAST ALBERTA

TAIGA CONSULTANTS LTD. Professional Services/Supervision Travel and Transportation Accommodation Road Clearance, Drill Site Preparation Rotary Drill Contract: McAuley Drilling Ltd. Geochemical Analyses Office Expenses; Disposable Field Supplies Service Charges	Sub-Total	<pre>\$ 11,812.50 4,596.58 5,814.20 1,581.00 18,953.34 1,464.75 414.55 1,723.41 \$ 46,360.33</pre>
R. Cormier & Associates Ltd. Pionjar Drilling and Line-Cutting Crew		14,600.00
France Quebec Geophysique Inc.		1,,000,000
Magnetometer Rental		622.00
Computer Applications & Systems Engineering Ltd.		
Statistical treatment of geochemical data		4,800.00
and map contouring C. F. Gleeson & Associates Ltd.		4,000.00
consulting geochemist		700.00
Loring Laboratories Ltd.		
freight on samples		65.80
J & M Enterprises Ltd.		102.16
diesel fuel		102.16
Freight and courier service Marline Oil Corporation		89.75
Mobilization and demobilization of		05.70
Pionjar drill crew		2,721.55
Travel expenses		503 00
Marline geologist	· · · · ·	501.00
Marline geologist 2 days field time @ \$150/day		300.00
2 days flera time @ \$150/day		
	Sub-Total	\$ 24,502.26
	TOTAL	\$ 70,862.59
MARLINE OIL CORPORATION	- 	
Office expenses, communications and		7,086.26
administration: @ 10% x \$70,862.59		
/ .	GRAND TOTAL	\$ 77,948.85

HOLE

HOLE	<u>RT-1</u>	APR. 15/79 HILL SOUTH GRID Line 1N @ O+OO - 10m N Elevation ≃216m (709')
0 8.0	- 8.0m - 15.2	Overburden Lt. brn. gypsiferous limestone, fossiliferous. Poor recovery due to lost circulation. Considerable chip contamination.
15.2	- 15.9	Gypsum - white, fibrous.
15.9	- 27.0	Anhydrite - translucent, massive.
27.0	- 28.0	Anhydrite - light brown, massive.
28.0	- 31.0	Siltstone - light brown; limey upper contact.
31.0	- 32.0	Limestone - light brown.
32.0	- 32.6	Limestone - light buff color with numerous seams of bitumen stain.
32.6	- 34.2	Siltstone - dark grey with numerous seams of anhydrite; inc
		% Of anhydrite toward lower contact.
34.2	- 35.5	Siltstone - green with numerous seams of anhydrite; inc %
		of anhydrite toward lower contact.
	- 35.7	Anhydrite - translucent, massive.
35.7		Bitumen seam.
35.8	- 36.3	Anhydrite – as above.
36.3	- 37.4	Siltstone - dark red.
37.4	- 37.5	Siltstone – green.
37.5	- 38.1	Siltstone – dark red.
38.1	- 38.7	Siltstone – green.
38.7	- 38.9	Siltstone – dark red.
. 38.9	- 39.2	Siltstone - green.
39.2	- 40.4	Dolomite; aphanitic, siliceous, light buff color. Traces bitumen on fractures and bedding planes.
40.4	- 40.5	Siltstone - dark red.
	- 40.8	Till: mixed red siltstone, anhydrite and rounded granite
		pebbles.
40.8	- 41.5	Granite: upper 0.5m intensely fractured and friable; last 0.2m fresh granite. Orange to light pink, 10% dark green
47 5		amphibole.
41.5m	END	· ·

HOLE RT-2	APR. 16/79 HILL SOUTH GRID Line 1N - 250m E. Elevation ≈216m (709')
0 - 11.2m 11.2 - 15.0 15.0 - 16.2	Overburden. Gypsum - white, fibrous. Till - rounded, very coarse-grained predominantly granitic sand and same pebbles (sink hole?).
16.2 - 17.6	Gypsum; trace interbedded anhydrite.
17.6 - 26.0	Gypsum; minor interbedded anhydrite.
26.0 - 27.9	Anhydrite; minor interbedded gypsum.
27.9 - 29.7	Anhydrite; minor interbeds of light brown siltstone.
29.7 - 29.9	Anhydrite; minor interbeds of light brown siltstone with bitumen partings.
29.9 - 30.8	Limestone; anhydritic, light buff to brown, minor bitumen
	partings.
30.8	l" thick black shale seam with trace f.g. euhedral pyrite.
30.8 - 31.1	Limestone; anhydritic, light buff to brown with tr. bitumen.
31.1 - 31.8	Grey siltstone.
31.8	l" seam Gypsum.
31.8 - 32.7	Grey siltstone.
32.7 - 33.7	Green siltstone.
33.7 - 33.8	Red siltstone (shaley).
33.8 - 34.4	Anhydrite, light pink.
34.4 - 34.8	Red siltstone with up to 50% anhydrite.
34.8 - 36.5	Red siltstone, fining downward to red silty shale.
36.5 - 37.0	Green siltstone.
37.0 - 37.2	Red siltstone.
37.2 - 37.5	Green siltstone.
37.5 - 37.6	Dolomite; aphanitic, siliceous, light buff color.
37.6 - 37.7	Gypsum - white, fibrous.
37.7 - 38.9	Dolomite; aphanitic, siliceous, light buff color. 37.8 bitumen seams and stringers on irregular fractures. 38.7 l" thick seam of yellow anhydrite.
38.9 - 39.3	Granite; highly altered contact or 0.5m of angular coarse
	sand and pebbles of till. Sparse xtls of yellow anhydrite.
39.3 - 39.6	Fresh Granite; orange to light pink; 10% dk. green.amphibole.
39.6m END	

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HOLE RT-3	APR. 17/79 HILL SOUTH GRID Line 1N - 500m E. Elevation ≃216m (709')
0 - 16.0 16.0 - 17.8	Overburden. Till with silty matrix; composed predominantly of coarse grained sand and rounded granitic pebbles, minor gypsum clasts.
17.8 - 21.5 21.5 - 23.7	
23.7 - 25.5 25.5 - 28.5	Light brown anhydritic siltstone. Light brown siltstone.
28.5 - 29.9 39.9 - 31.5 31.5 - 31.9	Light brown silty limestone with bitumen seams on bedding planes Grey siltstone. Green siltstone.
31.9 - 32.4 32.4 - 32.5	Light brown dolomitic siltstone. Pink anhydrite.
32.5 - 33.8 33.8 - 33.9 33.9 - 35.8	
35.8 - 35.9 35.9 - 36.2	
36.2 - 36.5 36.5 - 36.6	Red siltstone. Pink siltstone.
36.6 - 36.8 36.8 - 38.2	
38.2 - 38.5 38.5 - 39.0	
39.0m END	granite at 39m.

HOLE RT-4	APR. 18-19/79 FOUR MILE LAKE GRID Line 800m E Elevation ≃207m (680')
0 - 37.5 37.5 - 38.0	Fine sand with sparse, rounded granitic pebbles.
38.0 - 38.8 38.8 - 40.0	
40.0 - 40.6 40.6 - 42.4	Dolomite; light buff, f.g. to v.f.g.; gradational lower contact. Dolomite; light buff, f.g. to v.f.g. with interbeds of light grey, siliceous siltstone.
42.4 - 43.1 43.1	Pale green siltstone with traces disseminated fine-gr pyrite. Thin seam of gypsum.
43.1 - 43.6 43.6 - 43.7	Pale green siltstone with tr diss f.g. Py. Gypsum.
43.7 - 45.2 45.2 - 45.4	
45.4 - 45.9	Light green siltstone. Granite; upper contact slightly weathered and friable. Light grey, 10% dark green amphibole.
45.9m END	Fresh granite at 45.9m.

HOLE RT-5	APR. 20/79 FOUR MILE LAKE GRID Line 0 - 400m E Elevation ≃206m (677')
0 - 46.8	Overburden.
46.8 - 47.1	Dolomite; light buff, aphanitic, siliceous.
47.1 - 48.0	Dolomite; light buff, aphanitic, siliceous with 5% gypsum as thin seams.
48.0 - 50.0	Grey granite; moderately weathered, soft and friable for first meter. 10-20% coarse-grained muscovite. 49.0-50.0 fresh granite.
50.0m END	

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HOLE RT-6	APR. 20/79 FOUR MILE LAKE GRID 25m SE of Line O at 75m E of road Elevation ≃209m (683')
0 - 50.5	Overburden.
50.5 - 50.9	Medium to coarse grained, predominantly granitic sand. Lost circulation, poor return.
50.9 - 52.5	Reddish-brown siltstone.
52.5 - 53.1	Reddish-brown siltstone with 10-20% granitic fragments (<1/10") and minor gypsum.
53.1 - 54.0	Granite; pale orange. Slightly weathered at upper contact, soft, friable. Fresh granite at 54m.
54.Om END	sore, master mesh grannee ac onni

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HOLE	<u>RT-7</u>	APR. 21 Elevati	I-22/79 4. ion ≃206m (	0km SW c 677')	of HWY #5	, SW of Ft.	Smi th	
50.4	- 47.4 - 50.4 - 51.7 - 52.0 END	Till;	ourden. ; well roun granite; h granite; f	ded grar ighly fr resh.	nitic and ractured,	gneissic p slightly w	ebbles and l eathered.	ooulders.
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HOLE RT-8	APR. 23/79 Peace Point Rd at station #505 (SW of DND Monitor) Elevation ≃207m (680')
0 - 17.2 17.2 - 18.8	Overburden. Fine till; mixed granitic and sedimentary sand and pebbles with hard-packed clay and silt seams.
18.8 - 19.9	Limestone; dark to medium brown with numerous thick bitumen
19.9 - 23.5 23.5 - 24.2 24.2 - 25.0 25.0 - 27.0 27.0 - 27.5	seams. Limestone; light buff color. Limestone; 10-20% white, fibrous gypsum. Limestone; 30% white, fibrous gypsum. Limestone; 10-20% white, fibrous gypsum. Limestone; 30-40% white, fibrous gypsum.
27.5 - 28.0 28.0 - 28.6 28.6 - 29.0	Limestone; 50% white, fibrous gypsum. Limestone; 50-60% white, fibrous gypsum. Limestone; 30-40% white, fibrous gypsum.
29.0 - 31.5 31.5 - 32.0 32.0 - 32.1	Limestone; 20-30% white, fibrous gypsum. Pale grey-green, slightly limey mudstone. Soft friable. Gypsum.
32.1 - 35.5 35.5 - 36.3	Pale grey-green, slightly limey, soft, friable mudstone with 20% seams of gypsum. 80% gypsum with 20% thin seams pale grey-green mudstone.
36.3 - 36.8 36.8 - 38.0	Pale grey-green mudstone with 10% thin seams gypsum. Light red-brown, soft, friable mudstone.
38.0 - 38.6 38.6 - 42.0 42.0 - 42.3	Grey-green, soft, friable mudstone. Light red-brown, silty mudstone. Grey-green mudstone with 10% thin seams gypsum.
42.3 - 48.0	Grey-green mudstone with very minor thin seams gypsum and occasional thin seam light red-brown siltstone. Becomes harder and more silty toward lower contact.
48.0 - 57.0	70% anhydrite (translucent, light-brown to cream to clear) and 30% gypsum at upper contact grading to 95% anhydrite and 5% gypsum at 49m through to 57m. Minor bitumen on bedding planes; increasing content toward 57m.
57.0 - 60.0 60.0 - 63.0	Limestone; grey-brown; gradational upper and lower contacts. Dolomite; light buff to brown; fine to medium grained with numerous bitumen seams - Sharp lower contact.
63.0 - 65.6 65.6 - 66.0	Dolomite; light grey, fine grained. Dolomite; light buff to brown; fine to medium grained with numerous bitumen seams.
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Dolomite (as 65.6-66) with 5% pink gypsum as thin seams. Dolomite (as 65.6-66). Red siltstone.
69.0 - 69.5 69.5 - 69.7	Dolomite; light buff color with 5% thin seams of gypsum and occ thin seam of green siltstone. Light buff to green siltstone.
69.7 - 70.3 70.3 - 70.6 70.6 - 71.0	Dolomite; very fine grained to aphanitic, siliceous, ligth buff. Interbedded thin seams of Gypsum and Anhydrite. Green siltstone with 10% gypsum as thin interbeds and 20% orange fld and quartz crystals (weathered granitic boulder?).
71.0 - 71.5 71.5 - 72.0	Till; predominantly well rounded granitic pebbles & coarse sand. Granite; weathered & fractured for first 0.3m; fresh granite
72.Om END	at 71.7m.

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HOLE RT-9	APR. 24/79 N. of FOUR MILE LAKE 300m SW of Fitzgerald Hwy and 128m E of Peace Point Road. Elevation ≃212m (695')
	Overburden. Till; predominantly well rounded granitic pebbles and coarse
+1. <u> </u>	sand. Water flow ≃1/2 gal/min.
41.7 - 42.5	Granite; fractured and weathered for first 0.3m; fresh granite at 42m.
42.5m END	

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File No.	16964
Date	May 21, 1979
Samples	Drill Chips

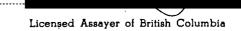
ATTN: Mr. R.K. Netolitzky

## Ser ASSAY or

## LORING LABORATORIES LTD.

"Drill Chips" $RT-1$ 1-2       2.3         2-3       1.1         3-4       0.8         4-5       5.1         5-6       0.8         6-7       0.5         7-8       0.6         8-9       0.5         9-10       0.2         10-11       0.8         11-12       0.5         12-13       0.5         13-14       0.2         14-15       0.2         15-16       0.2         16-17       0.2         17-18       0.2         20-21       0.2         22-23       NIL         23-24       0.2         24-25       0.2         25-26       0.2         26-27       0.2         27-28       0.2         28-29       0.2         28-29       0.2		PPM U308	SAMPLE No.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			"Drill Chips"
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2.3	RT-1 1-2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
5-6       0.8 $6-7$ 0.5 $7-8$ 0.6 $8-9$ 0.5 $9-10$ 0.2 $10-11$ 0.8 $11-12$ 0.5 $12-13$ 0.5 $13-14$ 0.2 $14-15$ 0.2 $15-16$ 0.2 $16-17$ 0.2 $17-18$ 0.2 $19-20$ 0.2 $20-21$ 0.2 $22-23$ NIL $23-24$ 0.2 $22-25$ NIL $25-26$ 0.2 $26-27$ 0.2 $27-28$ 0.2 $28-29$ 0.2			
		0.8	5-6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			6-7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		0.6	7-8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		0.5	8-9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			9–10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.8	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<b>`</b>	0.5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0.5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			14-15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
22-23       NIL         23-24       0.2         24-25       NIL         25-26       0.2         26-27       0.2         27-28       0.2         28-29       0.2	· · · · · · · · · · · · · · · · · · ·		19-20
23-24       0.2         24-25       NIL         25-26       0.2         26-27       0.2         27-28       0.2         28-29       0.2			20-21
24-25       NIL         25-26       0.2         26-27       0.2         27-28       0.2         28-29       0.2			
25-26       0.2         26-27       0.2         27-28       0.2         28-29       0.2			
26-27       0.2         27-28       0.2         28-29       0.2			
27-28 28-29 0.2			25-20
28-29 0.2	•		
			20 20
		0.2	20-29 29-30
29 <b>-</b> 30			
30-31 J Hereby Certify that the above results are those			<u></u>

Rejects Retained one month.





File No	16964
Date	May 21, 1979
Samples .	Drill Chips

ATTN: Mr. R.K. Netolitzky

## Set ASSAY or

## LORING LABORATORIES LTD.

Page	#	2
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SAMPLE No.	PPM U200	
	U308	
RT-1 32-33	0.8	
33 <b>-</b> 34	0.2	
34-35	0.5	
35-36	0.5	
36-37	0.5	
37-38	1.4	•
38-39	4.7	
39-40	1.7	:
40-41	2.0	
41-42	1.4	
RT-2 11.2-12	NIL	
12 <b>-</b> 13 <sup>-</sup>	NIL	
13-14	NIL	
14-15	0.2	•
15-16.2 A	0.9	
16.2 <b>-</b> 17.8	0.2	
17.6-18	0.7	
18-19	NIL	
19-20	NIL	
20-21	0.2	
21-22 A	NIL	
21 <b>-</b> 22 B	NIL	
22-23	NIL	
23-24	NIL	
24-25	NIL	
25-26	0.2	
26-27	NIL	
27-28	0.2	
28-29	0.2	
29-30	0.7	
30-31	1.1	
	J Hereby Certify that the above results are those	
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES	

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Licensed Assayer of British Columbia

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File No	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

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## LORING LABORATORIES LTD.

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<b></b>	Page # 3	
SAMPLE No.	PPM U308	
RT-2 31-32 A	NIL	
31 <b>-</b> 32 <sup>·</sup> B	0.7	
32-33	0.2	
33 <b>-</b> 34 A	0.2	
33 <b>-</b> 34 B	0.2	
34-35	0.4	
35-36	1.3	
36-37	3.8	
37-38	2.4	
38-39	1.6	
39-39-6	3.3	
15-16.2 B	0.2	
RT-3 3-4	1.1	
4-5.*		
5-6*	-	
6-7	1.6	ĺ
7-8	1.6	
8-9	1.6	
9-11	1.6	
11–12	1.3	
12 <b>-</b> 13	1.1	
14-15	0.7	•
15–16	1.1	
16–17	. 0.7	
17–18	0.7	
18-19	NIL	
19-20	· NIL	
20-21	NIL	
21-22	NIL	. [
22-23	NIL	
23-24	NIL	
* Samples Missing	I hereby Certify that the above results are those	
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES	

Rejects Retained one month.



File No.	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

## LORING LABORATORIES LTD.

6

	Page # 4
SAMPLE No.	PPM U308
RT-3 24-25	NIL
25-26	0.2
26-27	0.2
27-28	0.2
28-29	0.2
29-30	1.6
30-31	0.2
31-32	0.2
32-33	0.2
34-35	0.7
35-36	2.4
36-37	3.6
37-38	2.9
38-39	11.2
RT-4 18-19	. 1.3
19-20	1.6
20-21	2.2
21-22	1.6
22-23	1.1
23-24	0.7
24–25	0.7
25-26	1.6
26-27	1.1
28-29	1.1
29 <b>–</b> 30	1.1
30 <b></b> 31	1.1
31 <b>-</b> 32	1.0
32-33-	1.4
33-34	1.0
34-35	1.2
36-37	2.2
	I hereby Certify that the above results are those
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.

File No.	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

# LORING LABORATORIES LTD.

	Page # 5	
SAMPLE No.	PPM	
	U308	
RT-4 37-38	1.0	
38-39	0.8	
39-40	0.6	
40-41	1.0	
41-42	0.6	
42-43	1.8	
43-44	1.0	· .
44-45	0.6	
45-46	6.8	
RT-5 47-48	2.6	
48-49	2.6	
49 <b>-</b> 50	1.8	
RT-6 6-7	0.6	
7-8	0.6	*
8-9	1.0	· ·
9-10	1.2	
10-11	1.0	
11-12	1.8	
12-13	1.4	
13–14	1.0	
14-15	1.0	۰
15-16	1.0	
16-17	1.0	
17-18	1.4	· .
18-19-	1.4	
19-20	1.4	· ·
20-21	1.2	
21-22	1.0	
22 <b></b> 23 <sup>-</sup>	1.8	
23 <b></b> 24	1.4	
24-25	1.4	
	I hereby Certify that the above i	RESULTS ARE THOSE
	ASSAYS MADE BY ME UPON THE HEREIN DESCRI	

Rejects Retained one month.

To: TAIGA CONSULTANTS LTD.,
301, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2



File No.	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

# LORING LABORATORIES LTD.

	Page # 6
SAMPLE No.	PPM U308
RT-6 25-26	1.8
26-27	1.6
27-28	1.4
28-29	2.4
29 <b>–</b> 30	2.0
30-31	2.0
31-32	2.0
32-33	2.0
33-34	2.0
34-35	2.0
35-36	1.6
36-37	1.6
37-38	2.0
38-39	1.6
39-40	1.6
40-41	1.6
41-42	1.6
42-43	1.6
43-44	2.4
44-45	1.6
45 <b>-</b> 46 47 <b>-</b> 48	1.6
47 <b>-</b> 40 48-49	1.6
49 <b>-</b> 49 49 <b>-</b> 50	1.6
50 <b></b> 51	2.0
51.3	1.6 1.1
51 <b>-</b> 52	
52 <b>-</b> 53	
53 <b>-</b> 54	1.6
RT-7 2-3	
8 <b>-</b> 10	
- <b>-</b> -	J Hereby Certify that the above results are those assays made by me upon the herein described samples

**Rejects Retained one month.** 

To: TAIGA CONSULTANTS LTD.,
301, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2



File No.	16964
Date	May 21, 1979
Samples .	Drill Chips

ATTN: Mr. R.K. Netolitzky

# LORING LABORATORIES LTD.

Page # 7		
	PPM	
SAMPLE No.	U308	
RT-7 10-12	0.9	
12-14	1.6	
14-16	1.6	
16-18	1.6	
18-20	1.6	
20-22	1.1	
22-24	0.9	
24-26	1.6	
26-28	2.0	
28-30	2.0	
30-32	1.6	
32-34	1•4	
34-36	1.0	:
36-38	1.4	
38-40	1.4	
40-42	1.4	
42-44	1.2	
44-46	1.0	
46-47.4	1.0	
47.4-48	1.6	
48-49	1.4	and the second second
49 <b></b> 50	1.2	
50-51	1.4	
51-51.7	1.4	
2-10	0.6	
RT-7 3-4	1.4	
RT-8 4-6	1.2	
6-8	1.2	•
8-10	1.2	
10-12	1.4	
12-14	1.4	
	J Hereby Certify that the above results are those assays made by me upon the herein described samples	

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Licensed Assayer of British Columbia



File No.	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

## LORING LABORATORIES LTD.

	PPM
SAMPLE No.	U308
RT-8 14-16	1.4
16-18	1.4
18-19	1.8
19-20	1.4
20-21	2.0
21-22	1.8
22-23	2.2
23-24	1.0
24-25	0.6
25-26	0.2
26-27	0.2
27-28	0.6
28-29	0.4
29-30	0.2
30-31	0.2
31-32	0.4
32-33	0.2
33-34	0.6
34-35	0.2
35-36	0.2
36-37	0.7
37–38	0.7
38-39	0.7
39-40	0.9
40-41	0.7
41-42	0.7
42-43	0.7
43-44	0.7
44-45	0.7
45-46	0.2
46-47	0.2
	I hereby Certify that the above results are those
]	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Licensed Assayer of British Columbia



File No.	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

## Ser ASSAY or

## LORING LABORATORIES LTD.

	Page # 9	
SAMPLE No.	PPM	
	U308	
RT8 47-48	0.7	
48-49	NIL	
49-50	NIL	
50-51	NIL	
51-52	NIL	
52-53	NIL	
53-54	0.2	
54-55	0.2	
55-56	0.2	· /
56-57	0.2	
57-58	0.2	
58-59	0.2	
59-60	0 <b>.</b> 4	
60-61	0 <b>.</b> 4	
61-62	0.7	
62-63	1.6	
63-64	. 1.1	
64-65	0.7	
65-66	0.7	
66-67	0.7	
67-68	1.1	· · · · · · · · · · · · · · · · · · ·
68-69	1.1	
69-70	1.8	
70-71	2.0	
71-72	1.1	
RT-9 6-8	1.3	
8-10	1.6	
10-12	1.6	
12-14	1.6	
14-16	1.6	
16–18	2.0	
	I Hereby Certify that the above results are those	
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES	

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Licensed Assayer of British Columbia



File No	16964
Date	May 21, 1979
Samples	Drill Chips

ATTN: Mr. R.K. Netolitzky

## LORING LABORATORIES LTD.

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	Page # 10
SAMPLE No.	PPM U308
RT-9 18-20 20-22	1.6 1.6
22-24 24-26 26-28	1.5 1.6 1.6
28 <b></b> 30 30 <b></b> 32	1.6 1.6
32-34 34-36 36-38 38-40	1.8 1.6 1.3 1.3
40-41.6 A 40-41.6 B 41.2-42.2	2.0 1.6 1.6
42.2	3•5
· · · ·	
	J Hereby Certify that the above results are those assays made by me upon the herein described samples

**Rejects Retained one month.** 

B	ONDAR-0	CLEGO			ANY LTI	$\square$ .
764	4 BELFAST ROAD, C	DTTAWA, ON	TARIO, K1G (	)Z5	PHONE: 237-3'	110
	ppm     OVERBURDEN AND BASAL TILL SAMPLES       32     0.9       33     0.6					
ExtractionU-HN	0 <sub>3</sub>	<i>,</i>	Report No	410-79		
Method Fluori	netric		From <u>Taiga (</u>	Consultant	s Limited	<u> </u>
Fraction Used <u>-100 mes</u>	n- Whole rock reduc	ed to -200 me	esteApri	il 26,		_19 <u>79</u>
SAMPLE NO.						
SL-531	0.3	· · · · · · · · · · · · · · · · · · ·	RDEN AND BASA	AL TILL SA		
32	0.9					
33	0.6				·	
9AT 2118	0.6					
19	0.6					
20	0.4					
21 -	0.6					
22	1.2			_	4	
23	1.0					
24	0.3				<u> </u>	
25	0.5					

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ROCK SAMPLES

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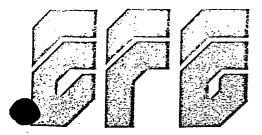
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## BONDAR-CLEGG & COMPANY LTD. Vancouver, British Columbia (verbal report)

Sample Number	<u>U ppm</u>	Sample Number	U ppm
9AT2103	1.0	9RL3201	1.0
9AT2104	2.0	9RL 3202	0.6
9AT2106	3.0	9RL3203	0.6
9AT2107	2.0	9RL 3204	0.6
9AT2108	0.4	9RL3205	0.6
9AT2109	0.8	9RL 3206	3.0
9AT2110	2.0	9RL 3207	1.0
9AT2111	0.6	9RL3208	0.8
9AT2112	1.0	9RL 3209	0.8
9AT2113	1.0	9RL3210	<0.2
9AT2114	2.0	9RL 3211	2.0
9AT2115	0.8	9RL 3212	2.0
9AT2116	2.0	9RL 321 3	1.0
9AT2117	1.0		

= TAIGA CONSULTANTS LTD.



C. F. Gleeson & Associates Ltd. 764 Belfast Road, Ottawa K1G 0Z5, Ontario. Car Phone (613) 232-0796 - (613) 652-4

#### SUMMARY OF GEOCHEMICAL REPORT ON SLAVE RIVER

In 1978 Taiga Consultants Ltd. on behalf of Marline Oil Corporation took some 239 sediment samples and 241 water samples from lakes and muskegs of the Slave River area. The former samples were analyzed geochemically for U, Cu, Pb, Zn, Ni, Mo and Ag; the latter were analyzed for U, pH and specific conductivity. The results were computer plotted, moving average and residual maps were drawn and basic statistical parameter calculated.

Generally most of the permits are underlain by Devonian limestones and dolomites unconformably overlying Precambrian granitic rocks. The contact between these rocks trends southeast-northwest along the east iborder of the permits. Airphoto lineaments are dominently northeast and northwest and probably represent major faults in the area.

Overlapping northeasterly geochemical trends for Pb-Ag-U and specific conductivity are dominent in the southeast part of the permits; in the northeast sector of the permits U-Pb-Mo-pH regional northwest trends are present and in the northwest corner of the permits overlapping northeast trending U-Zn-Cu-Mo regional trends occur. Devonian strata underlie all these areas.

Outside of the permits definitive northeast coincident regional U-Zn-Ni-Ag trends are present over Devonian terrane in the northwest corner of the surveyed area. The Precambrian granitic terrane in the east sector of the area is marked by north trending coincident regional increases in U-Zn-Ni, overlap with Ag occurs in the north and with specific conductivity in the south. Within the U-Ni regional highs there are northeast trends coinciding with airphoto lineaments.

Significant U in water anomalies are present in the south part of the permits, in the vicinity of Four Mile Lake and southwest of Fort Smith. U anomalies have been found in humus samples in the vicinity of some of the anomalies in these areas. Near Fitzgerald U water anomalies occur in an area where high background granites (3-7.5ppm U) outcrop and limestones west of here also are abnormally high in U (1.5-3ppm over a background of < 0.4ppm).

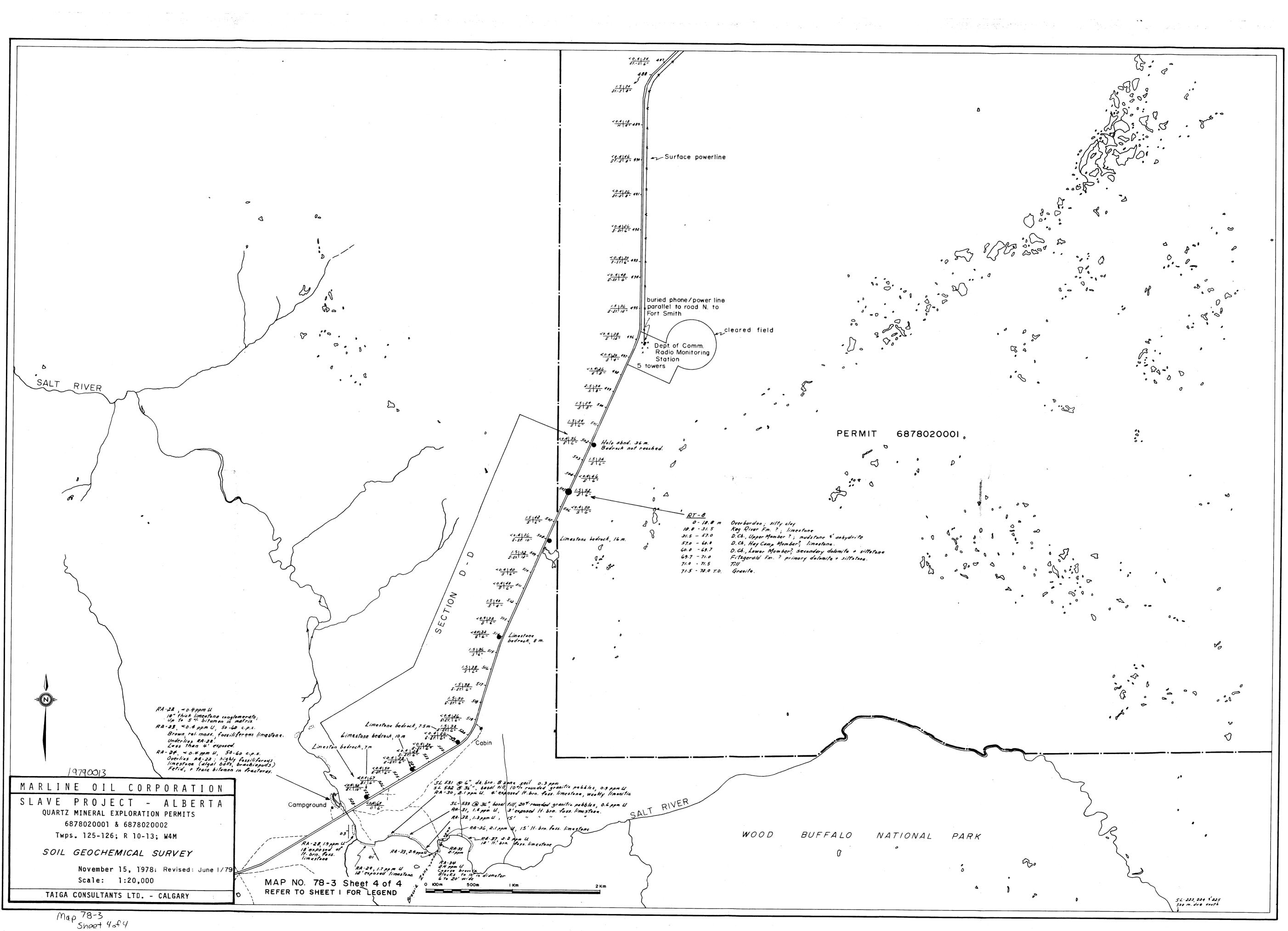
To obtain better anomaly definition prior to drilling systematic (100m x 300m) soil sampling of the humus horizon should be carried out, all springs and outcrops should be sampled and analyzed for U. In follow-up work an effort should be made to selectively sample rocks enclosing fractures and microfractures.

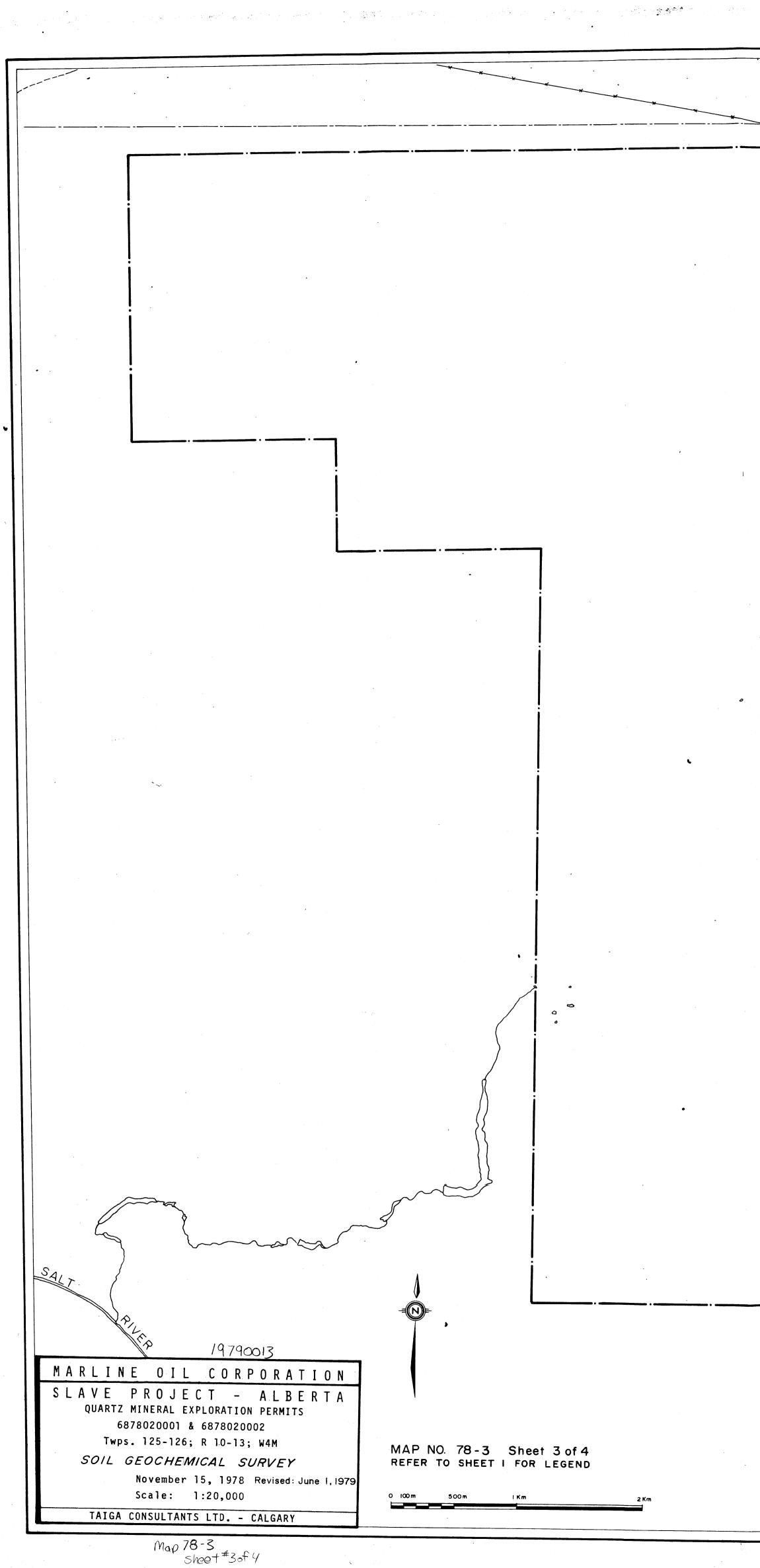


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### February 14,1979

C.F. Gleeson PhD, P.Eng.





## PERMIT 6878020002

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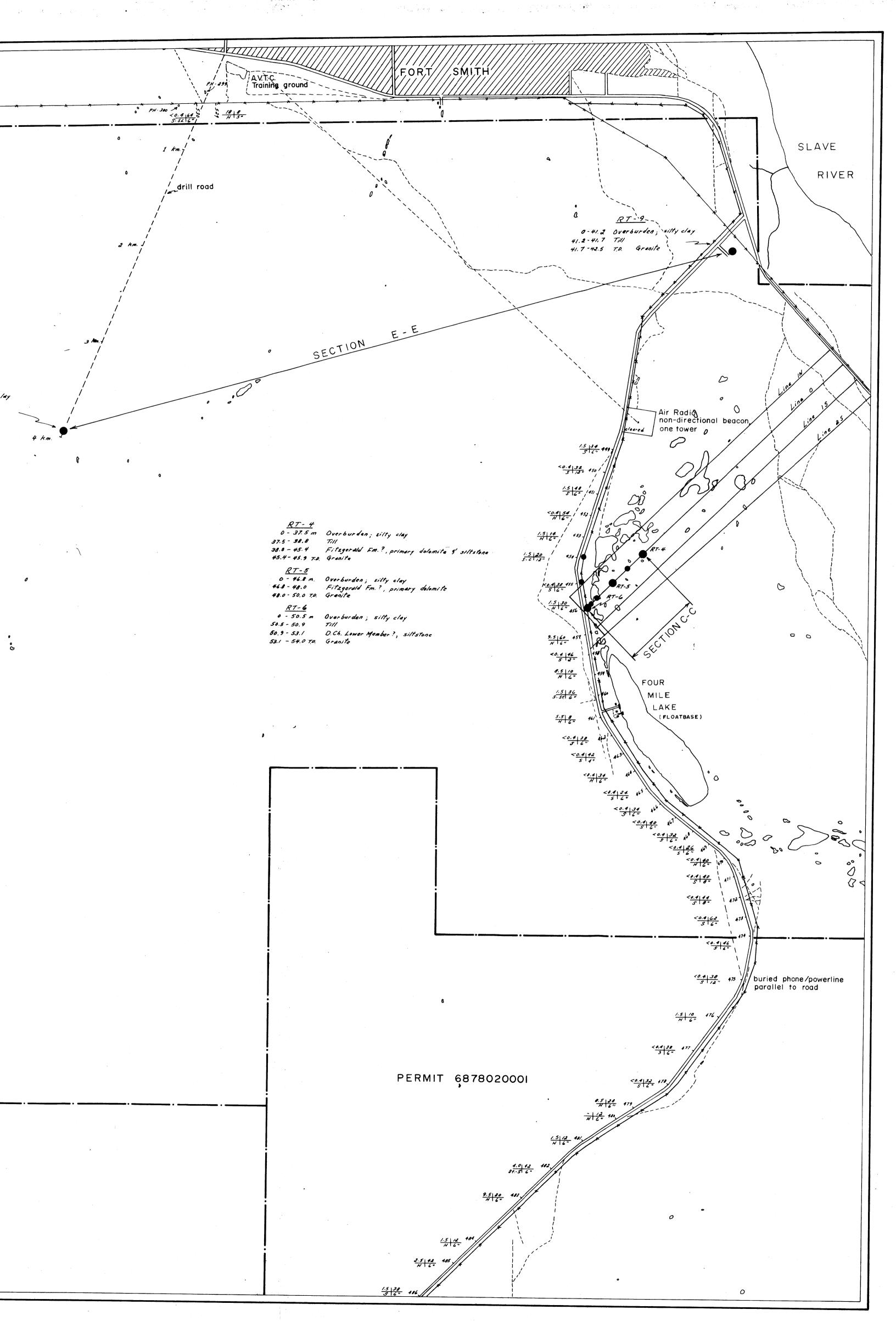
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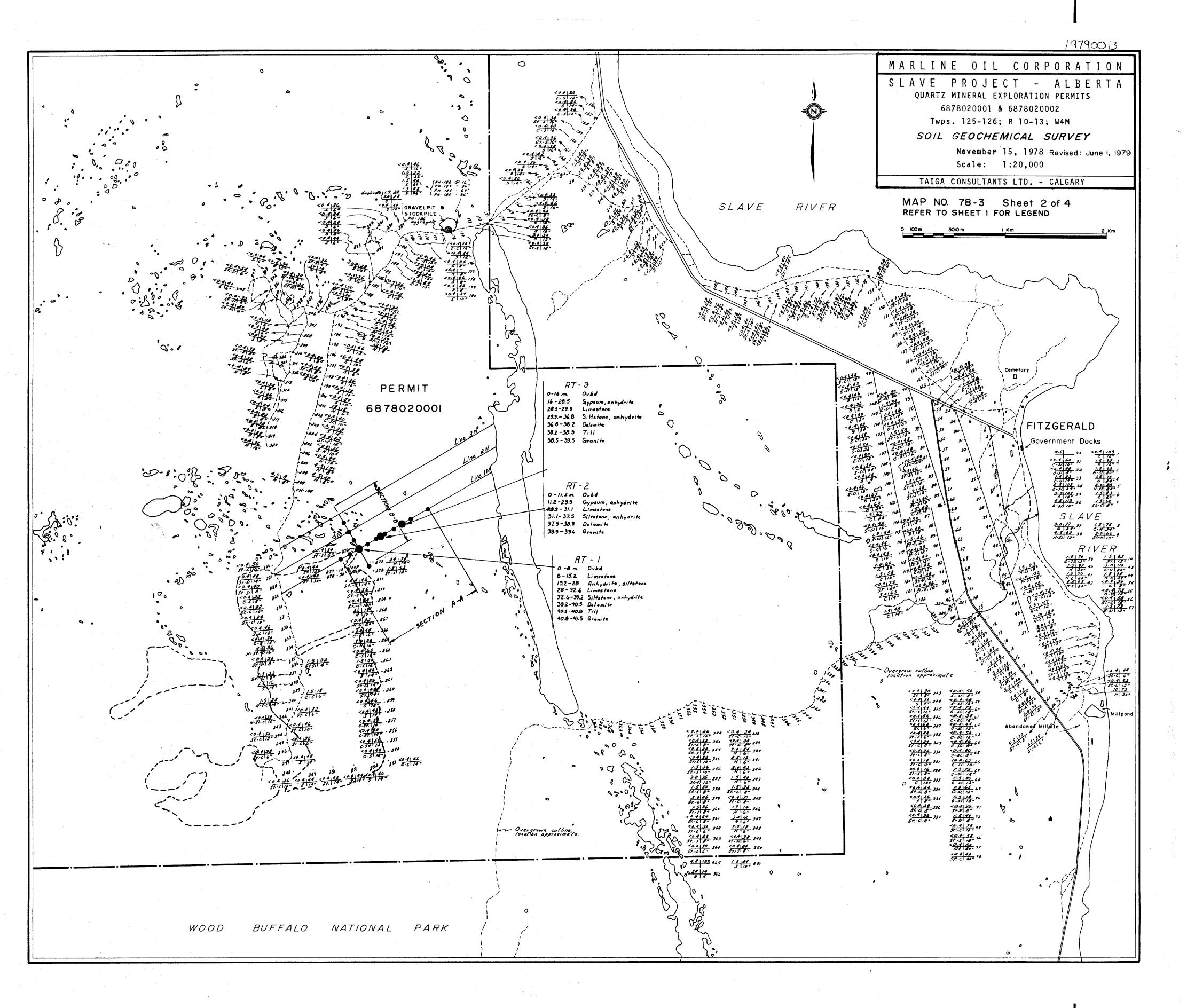
<u>RT-7</u> 0-47.4 Overburden; silty clay 47.4-50.4 Till 50.4-52.0 T.O. Granite

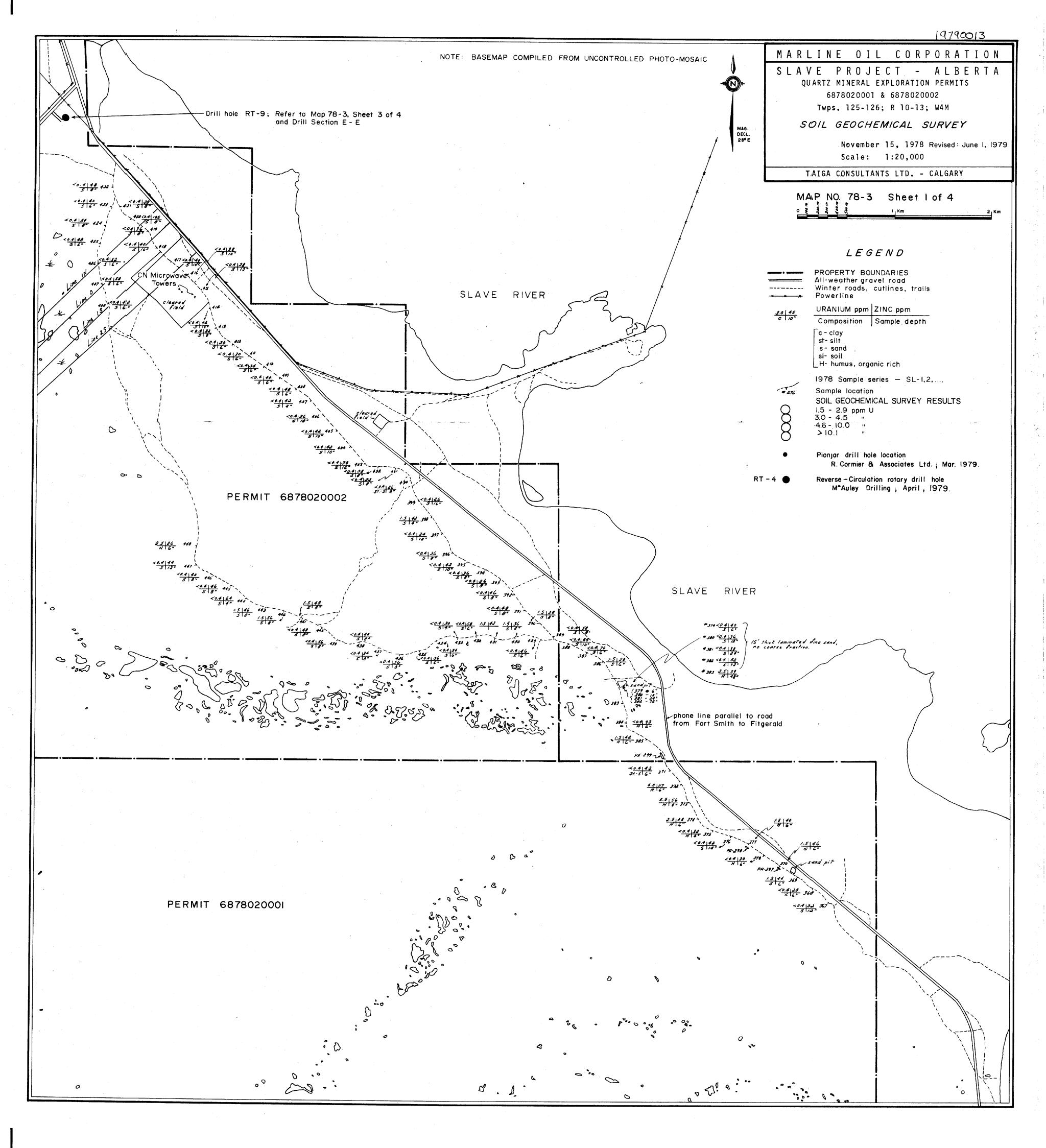
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<u>NORTHWEST</u><u>TERRITORIES</u> ALBERTA

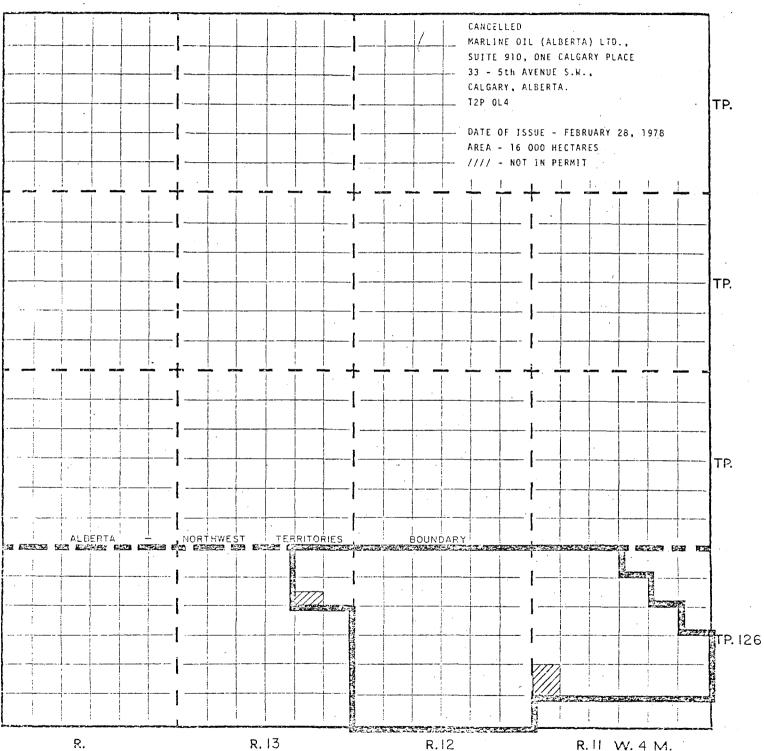


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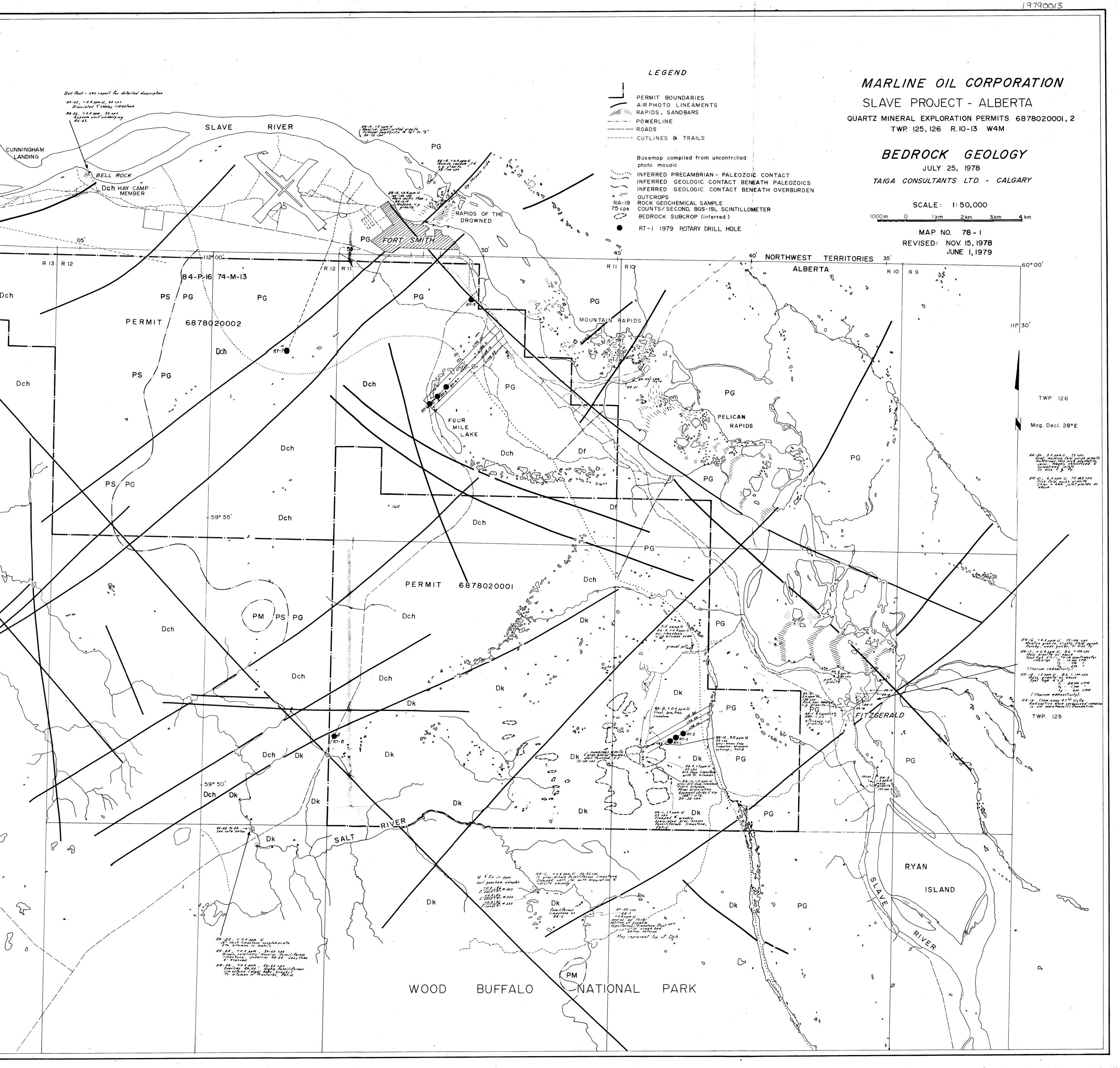




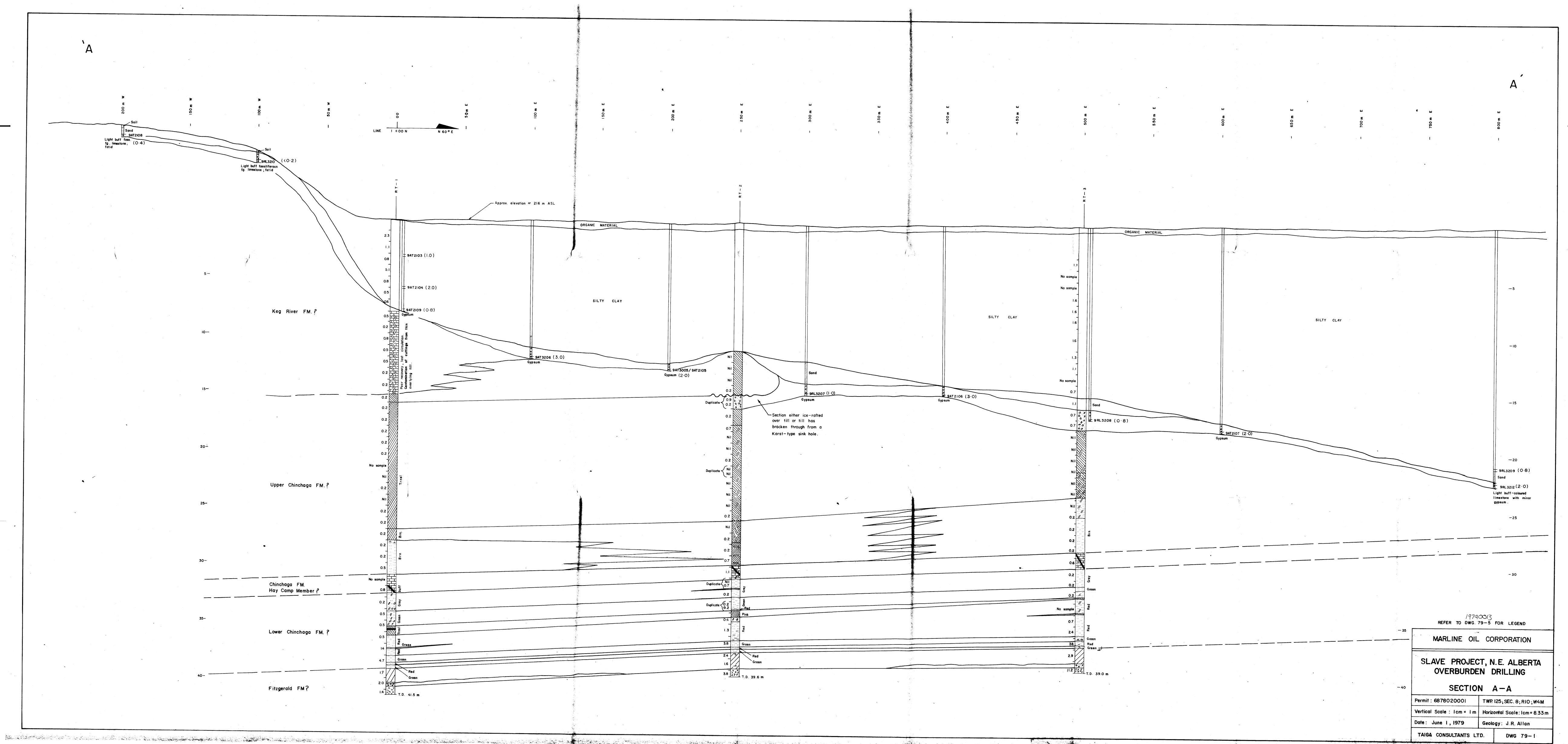
## QUARTZ MINERAL EXPLORATION PERMIT NO. 6878020002

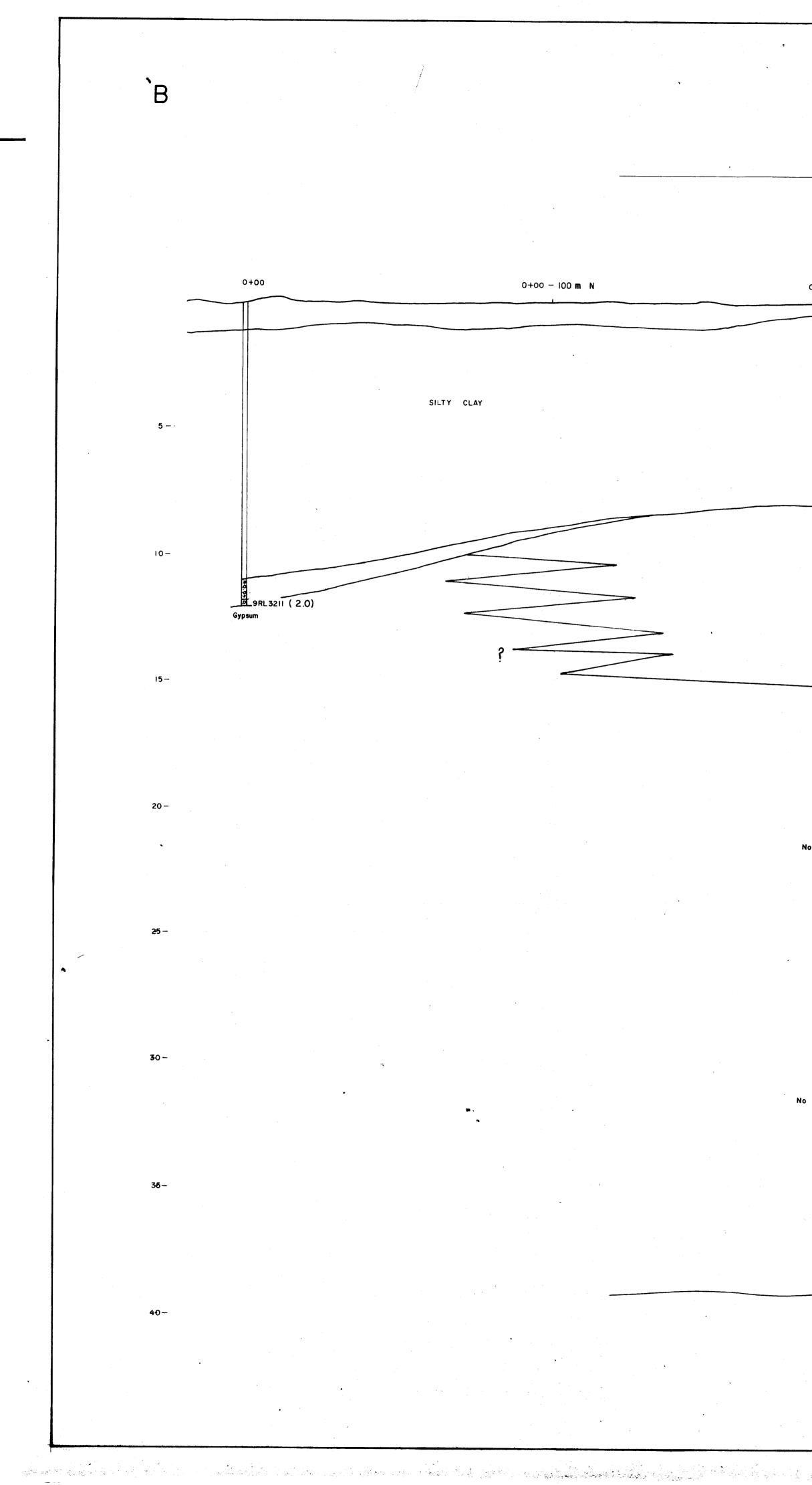


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	HWY. (to Hay							
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			•					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
						• * • •		
		···		MAP	TABLE OF FOR	MATIONS *		S
		ERA	PERIOD RECENT & PLEISTOCENE	UNIT AL GL AS	ASSUMED THICKNESS	Alluvium Glaciolacustrine Sands, Silt, Clay Aeolian Sands		
			MIDDLE		KEG RIVER FM (marine)	grey and brown fine- to medium-grained <u>limestone</u> , thin- to thick-bedded, locally richly fossiliferous and coarse-grained; grey medium-grained dolomite, locally vuggy (upper member)fine-grained brown dolomite and laminated dolomite, locally vuggy; minor limestone; unit locally much brecciated and recemented (lower member); minor <u>bitumen</u> throughout exposures		
				Dch	sible minor unconfo CHINCHAGA FM (evaporitic)	Upper Member O-150' white and grey gypsum, argil- laceous and dolomitic gypsum and anhydrite; some dolomite, dolomitic limestone, red and green shale; some salt in sub- surface		2
		PALEOZOIC	MIDDLE DEVONIAN (?)	Df	FITZGERALD FM (marine) 10-26.4'	Hay Camp Memberlimestone breccfa, occasional fragments of dolomite.Member 20-30'May contain bitumen seam to 2" thick.Lower Member 10-12'thin-bedded white, grey or blue gypsum (selenite & satin spar), minor crypocrystalline dolomitegrey and brown fine- to medium-grained dolomite to sandy dolomite and dolomitic limestone, locally vuggy; grading down into sandstone, arkose and breccia (La Loche Formation); thin seam of carbona- ceous dolomite (2") near the base;	PRESENCE <b>EX</b> TRAPO FROM REGIONAL - SCA	
			MIDDLE DEVONIAN (?) or PRECAMBRIAN	PR	PRECAMBRIAN REGOLITH or LA LOCHE FM. O-22.3	<u>ceous</u> dolomite (2") near the base; occasional thin interbeds of gypsum breccia, conglomeratic sandstone, arkosic sand, sandstone, and sandy mudstone; matrix contains clay and <u>iron oxide</u>	NOT EXPOSED IN PROJECT AREA	
Ň		PRECAMBRIAN	ARCHEAN (?)	PG PS PM	≁major unconformit	felsic granite, minor granite gneiss, occasional mafic lenses granite with metasedimentary remnants; and/or granite gneiss (Tozin Gp. rocks?) mafic intrusives (?)		
		L	apted after:		(1963), Norris (19	55), Green (1972), and Pugh (1973)		

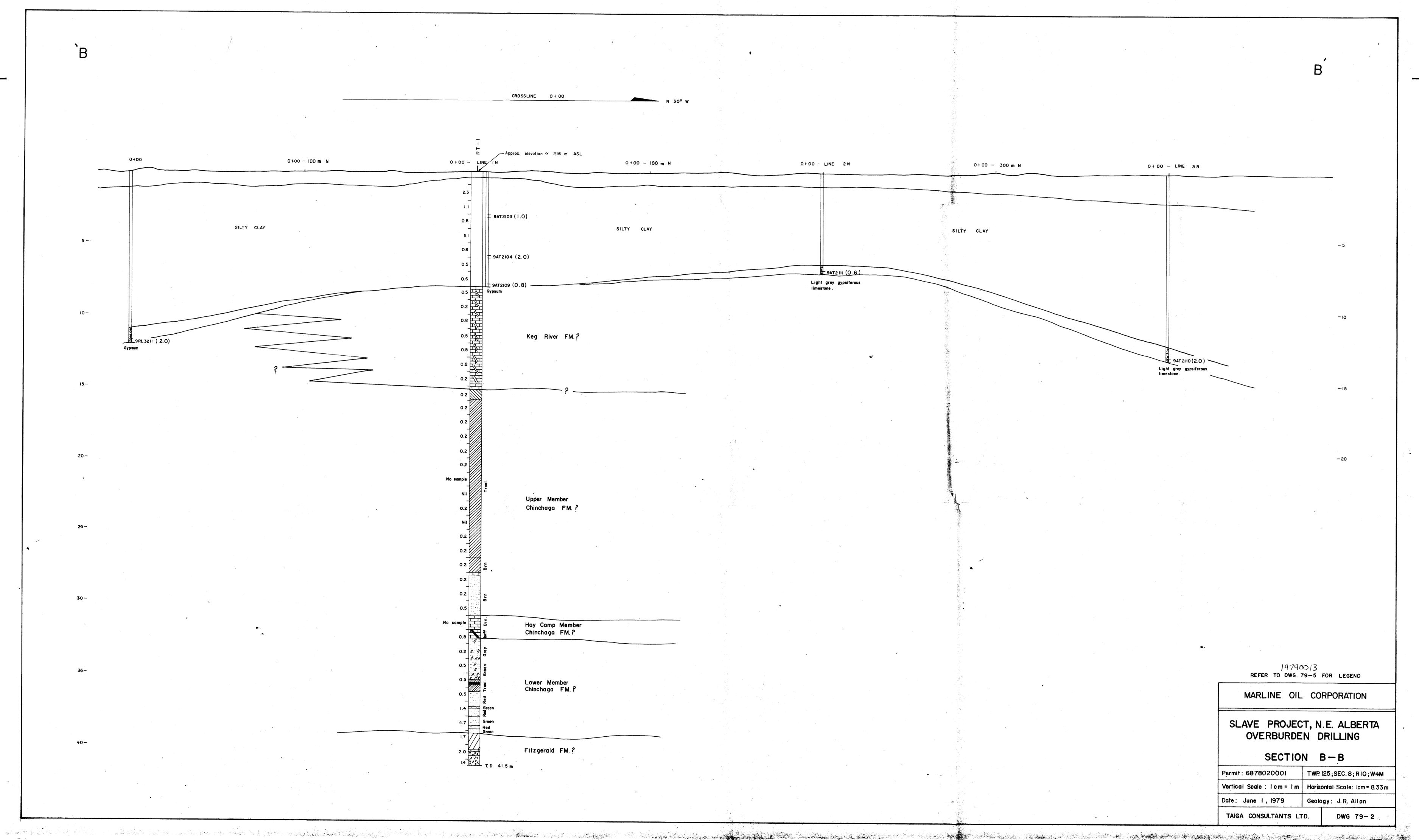


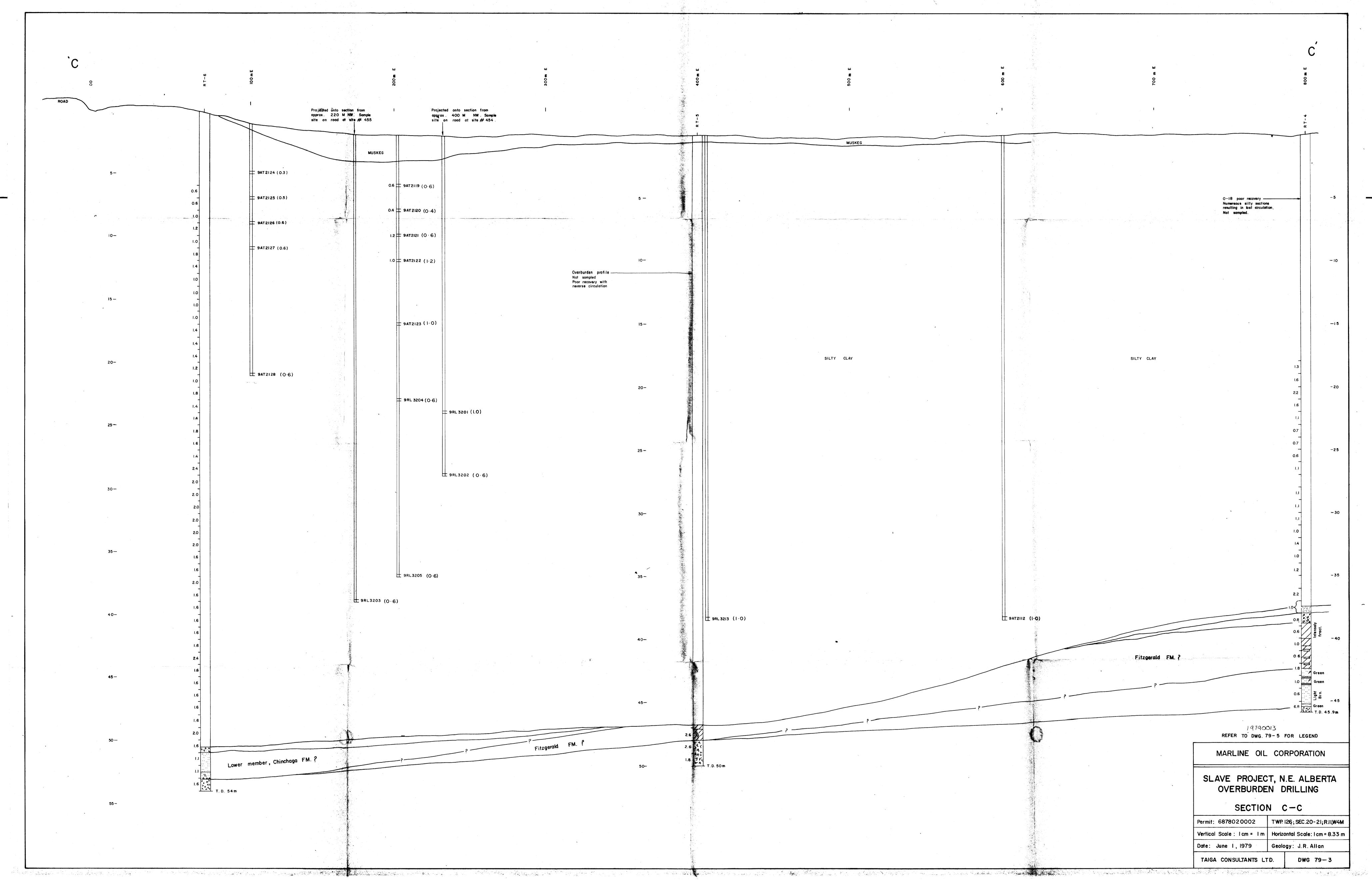
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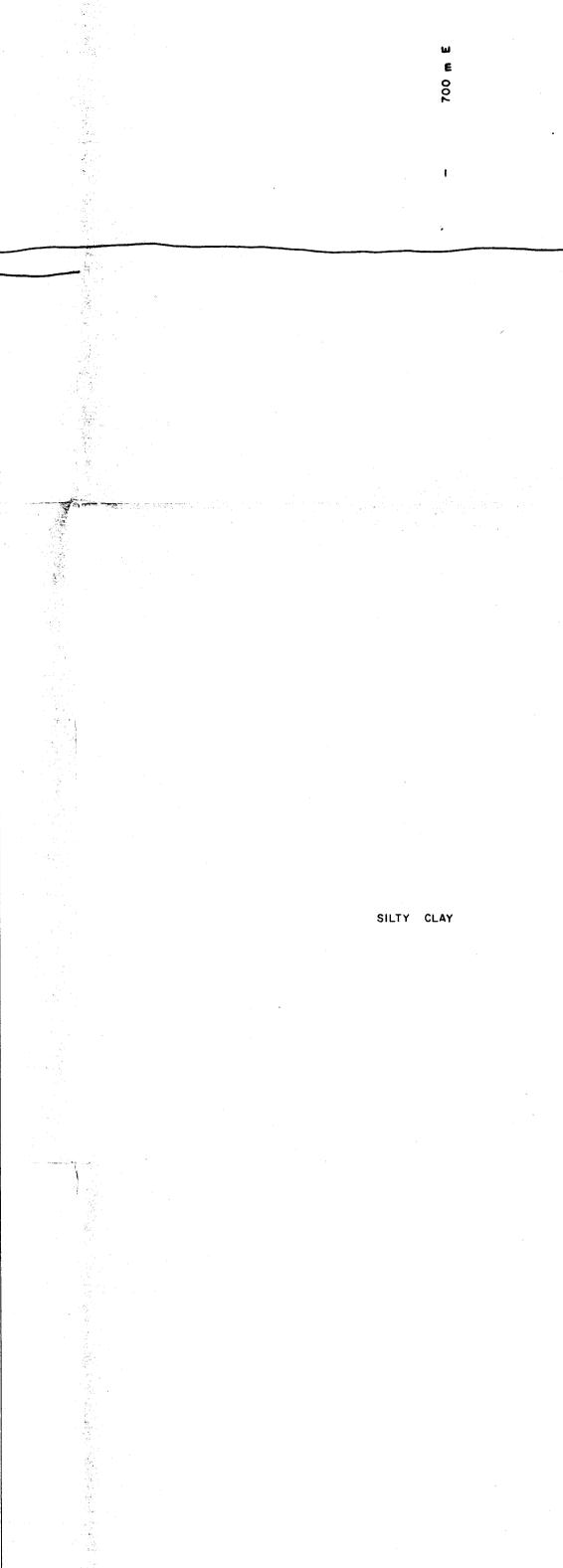




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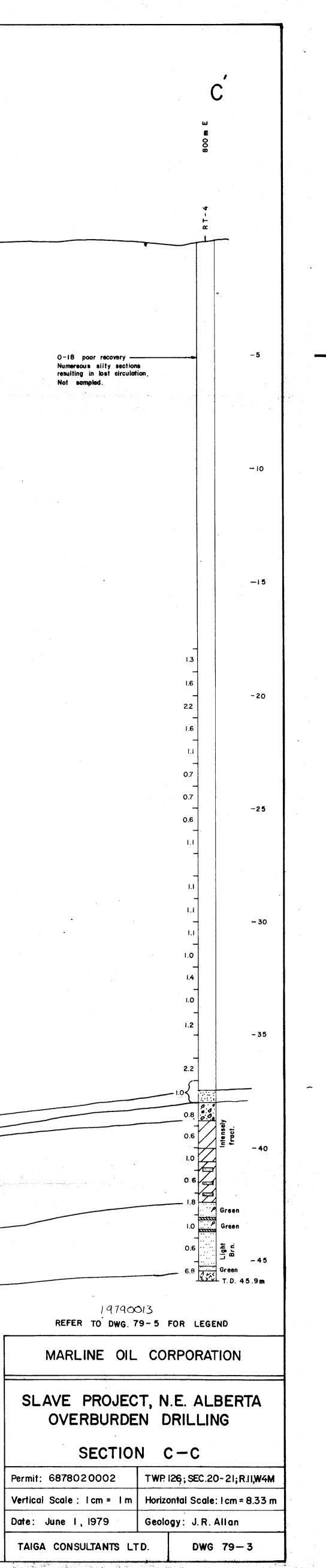
SILTY CLAY

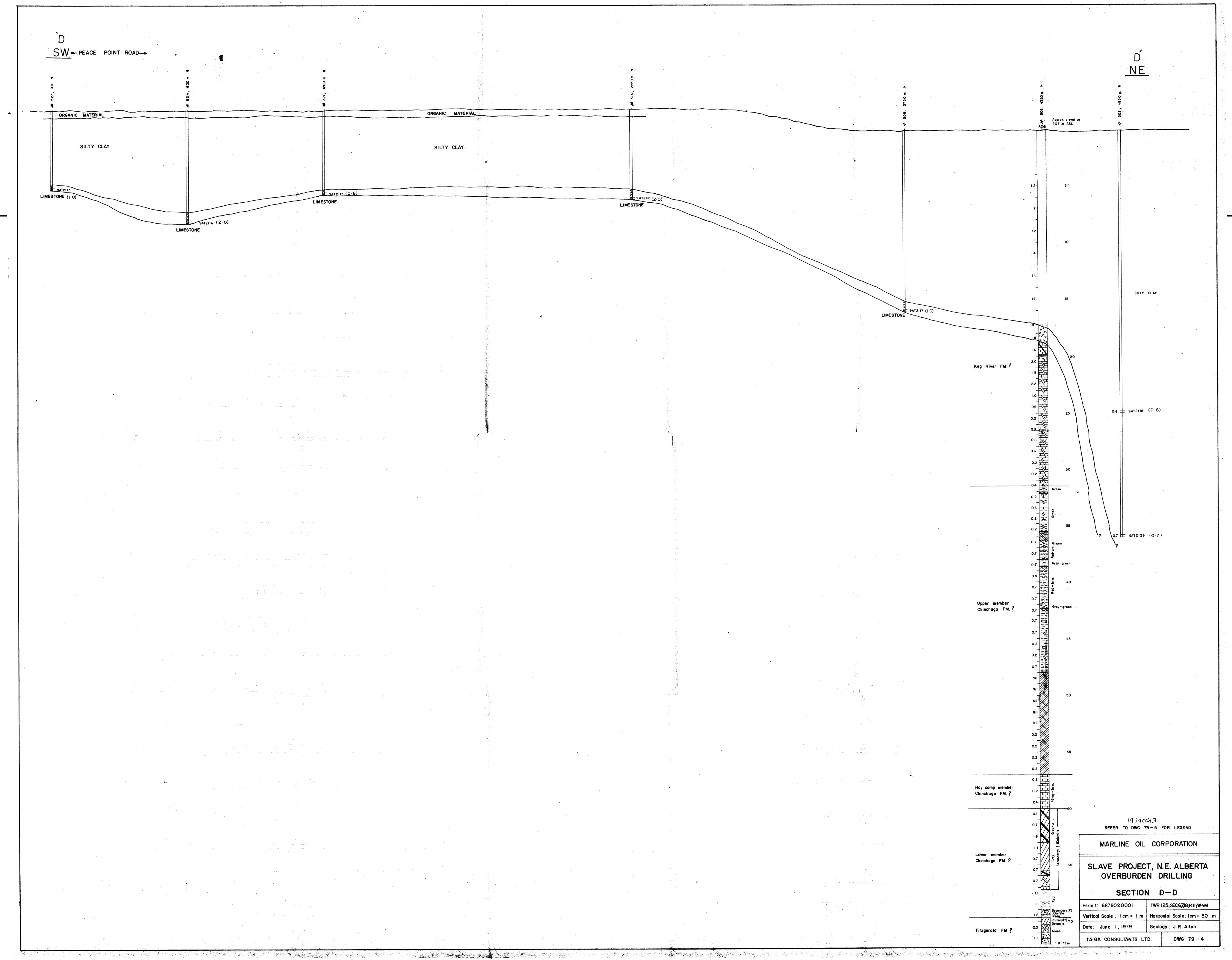
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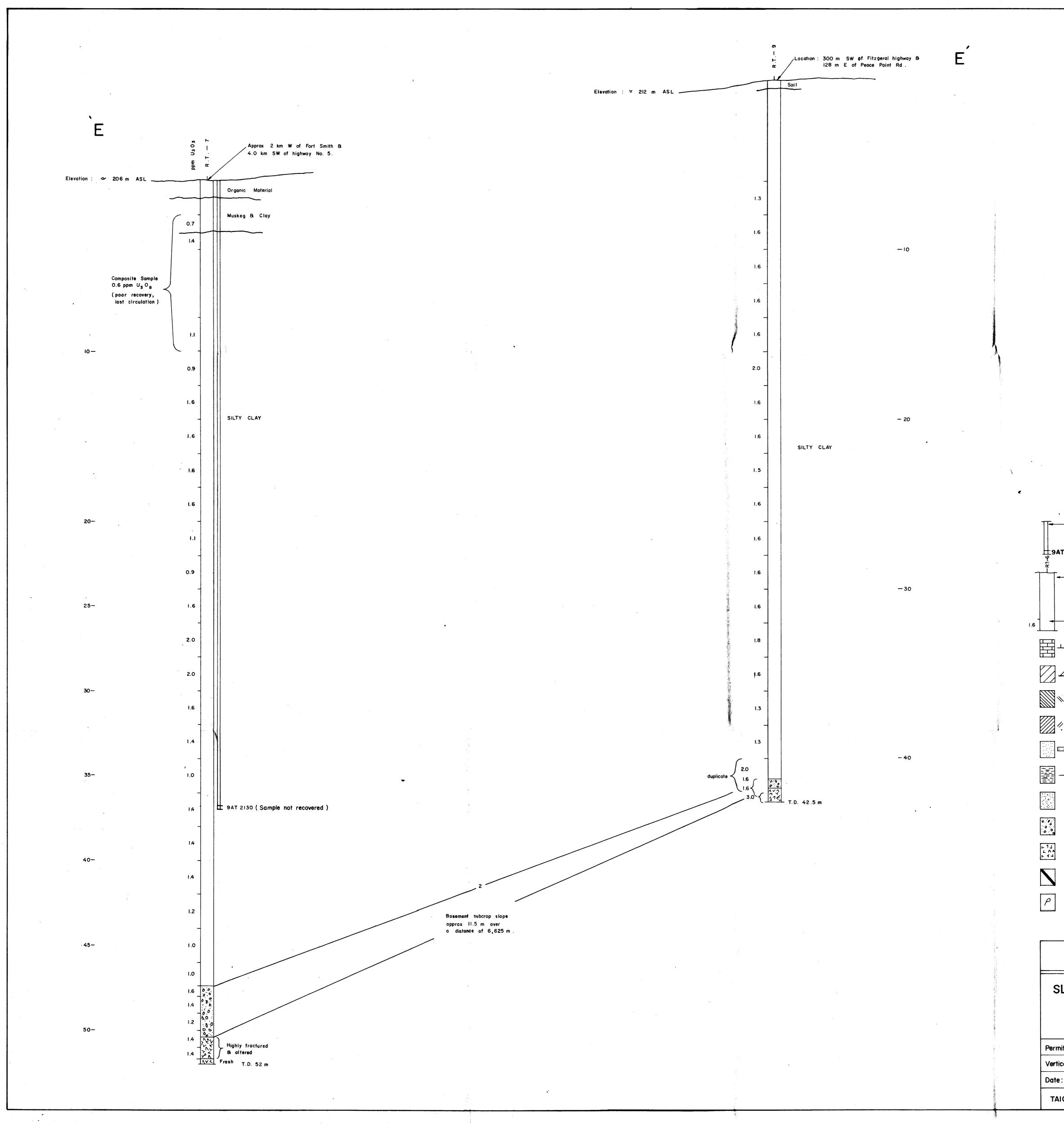


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Fitzgerald FM. ?







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LEGEND	
– Pionjar percussion drill hole; I" diameter R.Cormier & Associates LTD. Mar. 21–Apr. 7, 1979.	
AT 2112(1.2) Geochemical sample (approx. 6" in lenght x 1" diameter) U308 in parts per million.	
<ul> <li>Dual-wall reverse circulation drill hole. Failing</li> <li>1500 truck-mounted drill; 4 diameter hole.</li> <li>M*Auley Drilling LTD. Apr. 14-24, 1979</li> </ul>	• •
—Geochemical sample (approx ilb. over i meter); value of U3O8 expressed in parts per million.	
Limestone ; calcoreous	
∠ Dolomite ; dolomitic	
🕅 Gypsum ; gypsīferous	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
// Anhydrite ; anhydritic	
Siltstone ; siltstone stringers	
— Mudstone (Claystone); argillaceous	
Sand ; unconsolidated	
Till	
Granite	
Bitumen; generally restricted to bedding planes	
Pyrite	
19790013	
MARLINE OIL CORPORATION	
	=
OVERBURDEN DRILLING	
SECTION E-E	
nit: 6878020002 TWP.125; R.11-12, W4M	
ical Scale : 1 cm = 1 m Horizontal Scale : 1 cm = 200 m	
e: June I, 1979 Geology: J.R. Allan	
AIGA CONSULTANTS LTD. DWG 79-5	1

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