



42A02NW0028 2.8776 FALLON

010

Basal Till Sampling  
Report  
on the  
Fallon South Grid  
Fallon Township  
Porcupine Mining Division  
District of Timiskaming, Ontario

NTS 42A/2 and 3  
Latitude 48° 13' N  
Longitude 81° 00' W

December 12, 1985

By: P. Miller



42A02NW0028 2.6776 FALLON

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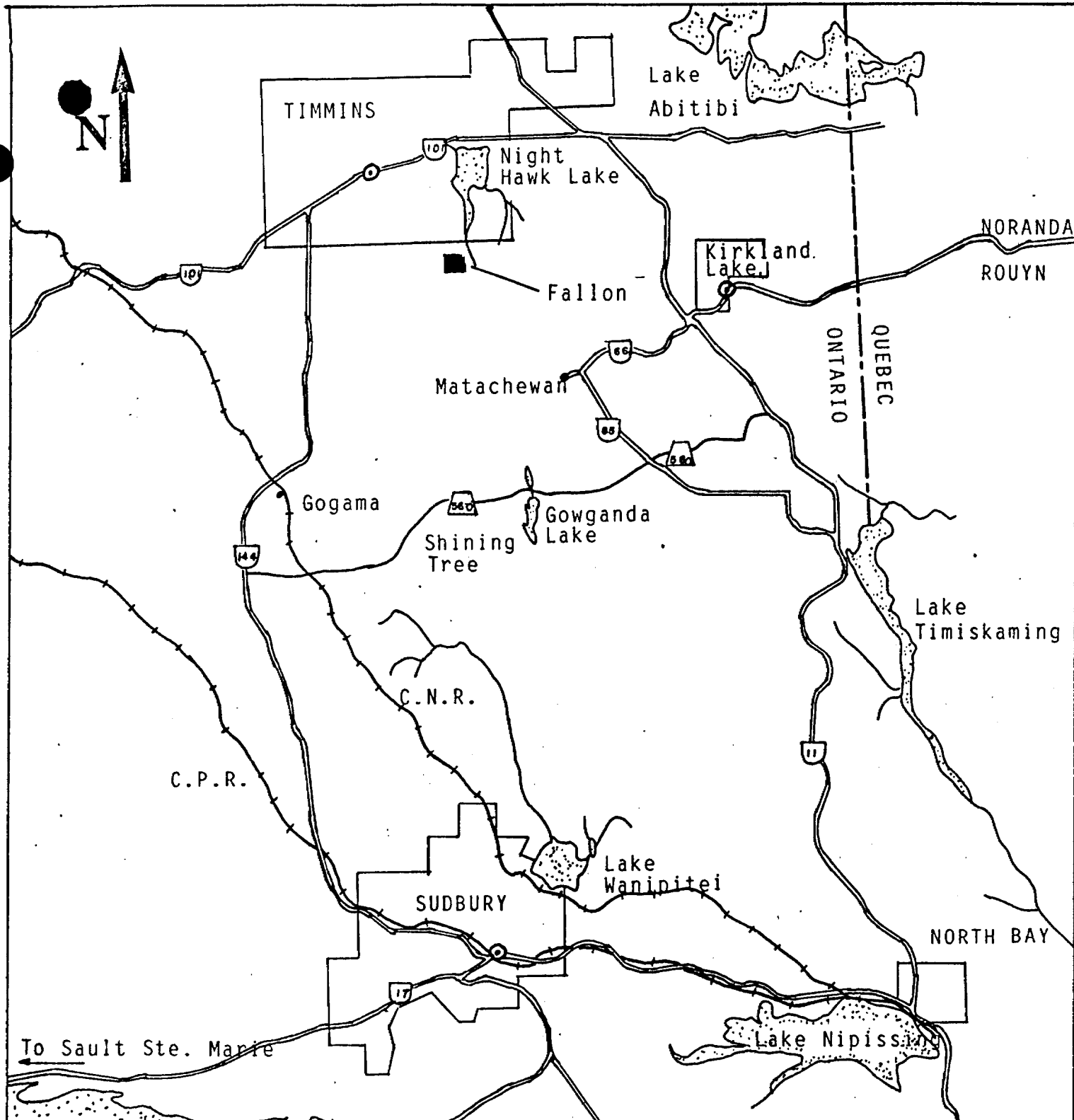
- 1 Basal Till Sampling, +5M clast  
Lithology Identification

## Introduction and Summary of Results

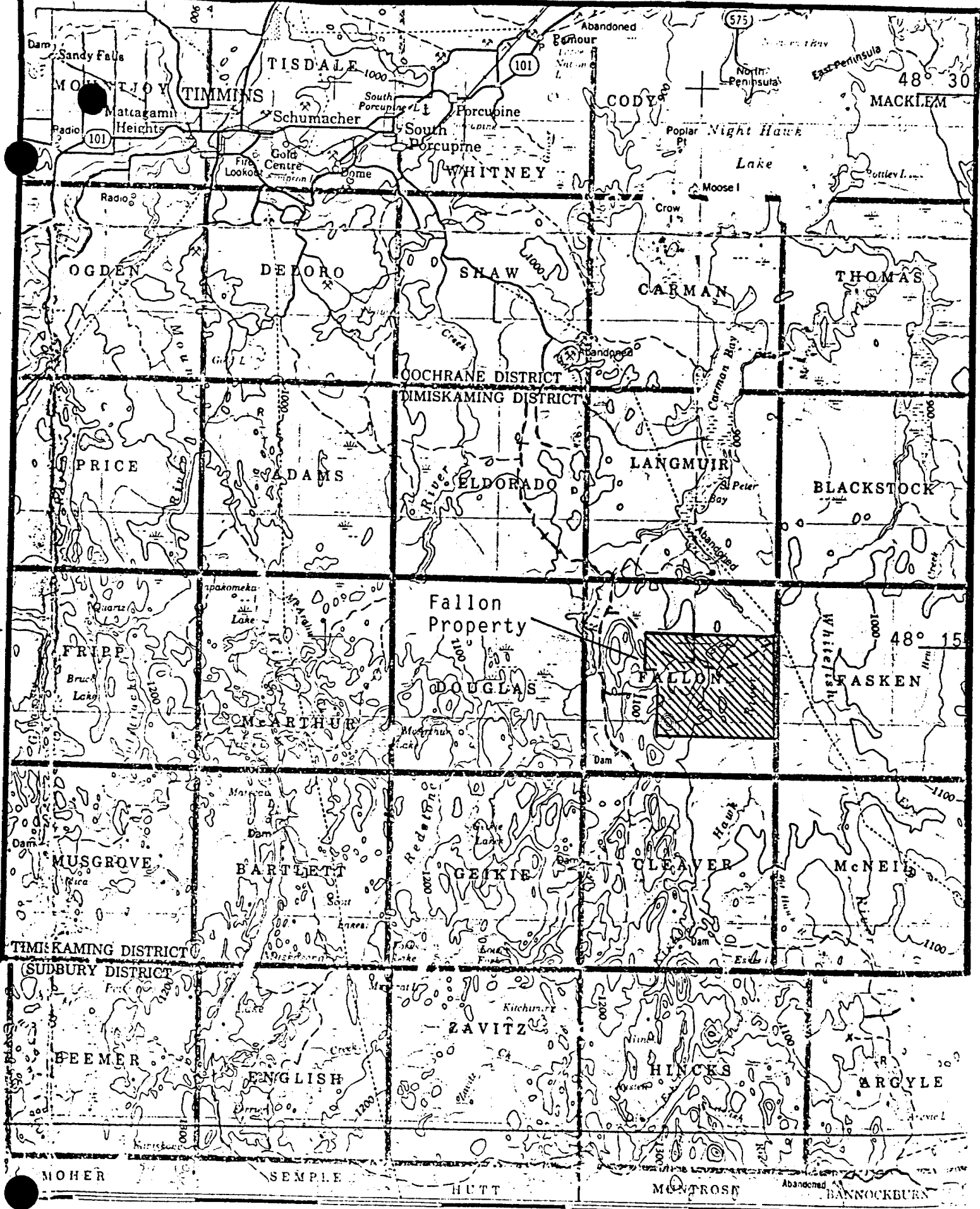
This report describes the partial results of a basal till sampling program performed by R. Cormier and Associates Ltd. between June 2-12, 1985, inclusive, on the Fallon South Grid. The work was undertaken to evaluate and, if possible, detect the causative sources of two V.L.F. electromagnetic conductors that had been outlined in a geophysical survey conducted in 1984. Information was also obtained about the bedrock geology and overburden in the vicinity of the conductors. The property is located in Fallon Township, approximately 38 kilometers southwest of the city of Timmins. Mr. David J. Meunier of South Porcupine, Ontario is the owner of the claims.

R. Cormier and Associates Ltd. utilized a pionjar, percussion drill to obtain till samples from the bedrock-overburden interface. This report describes the results from 18 holes which were drilled on two lines over two different conductors. Microscopic, mineralogical and lithological identifications were respectively performed on the heavy mineral separates of the -5 to +250 mesh and the entire +5 mesh size fractions. The -5 to +250 mesh identifications were done by C.F. Gleeson and Associates Ltd. and the +5 mesh identifications were done by the author of this report. All of the size fraction, heavy mineral and magnetic separations were completed by R. Cormier and Associates Ltd. The work applied for assessment credits was done by R. Cormier and Associates Ltd. and includes the cost of drilling and sample preparation.

Basal till was recovered in 72% of the holes from an average depth of 7.9 meters. The average cost per hole was \$172.10. Most drill logs indicated an organic layer normally overlying clay or silt followed by coarse sand and gravel and basal till horizons. Several shallow holes failed to intersect the silt-clay soil horizon. No explanations for the conductors were determined. Lithological identifications of samples collected on line 2E indicate the samples are taken over, or up-ice, from intermediate tuffs and flows and minor monzonite, mafic volcanics and Huronian sediments. On line 4E mafic flows predominate with minor amounts of intermediate flows and tuffs, monzonite, diabase and felsic flow also being sampled. Volcanic clasts are generally weakly chlorite  $\pm$  carbonate altered, are unmineralized or host trace disseminated pyrite and are undeformed to weakly schistose. Heavy mineral identifications indicate that samples 5066 and 5067 are moderately altered. Samples 5060 to 5065 contain relatively high pyrite contents of 1-3 percent.

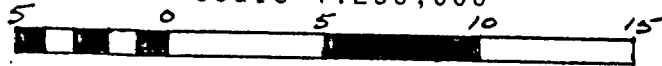


MEUNIER OPTION	
FALLON PROPERTY	
LOCATION MAP	
Date	Sept. 1985
Scale	1:1,600,000
P.M.	Fig. 1



Location Map-Fallon Property

Scale 1:250,000



KILOMETERS

Figure 2.

### Location and Access

The property is centered approximately 38 kilometers southwest of Timmins at latitude  $48^{\circ} 13'$  north and longitude  $81^{\circ} 00'$  west. Figures 1 and 2 illustrates the properties location at scales of 1:1,600,000 and 1:250,000 respectively.

Gravel road access is available to the north of the grid commencing at Connaught Hill south of South Porcupine. The Langmuir Mine road is followed from Connaught Hill for a distance of 15.2 kilometers until the junction with Night Hawk Timber Co. Ltd's private access road is met. The access road is followed south and then west for another 20 kilometers until the grid is reached. Alternatively, the southwest of the grid may be accessed by following a different succession of Night Hawk Timber Co. Ltd's access roads for 30 kilometers until the junction with a four wheel drive bush road is met. The bush road is followed for 6 kilometers, to within several hundred meters of the grid. Additionally water access may be obtained to the east of the property along the Night Hawk River, which is in turn road accessible to a point one kilometer north of the property.

### Physiography and Vegetation

Elevation variences of between 10-20 meters occur where areas of outcrop rise abruptly from low lying, flat swampy regions. In part, the outcrop areas are thought to be fault bounded, having steep sided scarps at their edges.



Outcrop areas are covered by spruce, pine, balsam and occasionally poplar forest cover. Intervening swampy regions are overlain by spruce, balsam, alder and muskeg. Creeks, draining in a dominantly easterly direction, are present in the southeast, southwest and northcentral portions of the Fallon South Grid.

Outcrop exposure is 10%-15%, being primarily confined to the south-central, west-central and northeast portions of the mapped region. Other areas are overlain by substantial thicknesses of glacial drift.

#### Property Description

All the claims covered in this report are situated in Fallon Township, Porcupine Mining Division, District of Timiskaming. Claims on which assessment credit are being applied for include; P-792533-P-792536, P-792539, P-783572-P-783574, and P-663472-P-663474. Claims upon which work was performed and which are contiguous with the above claims include; P-663470, P-641793, and P-641734.

#### Survey Procedure

Basal till sampling was conducted between June 2-12, 1985, by a two man crew utilizing a pionjar drill. The pionjar drill is a portable percussive drill that obtains a single overburden sample from each hole, over a 20 centimeter long interval, immediately above the bedrock-overburden interface.

Either 5 or 13 holes were drilled at 12.5 and 25.0 meter intervals, along 115° trending metric grid lines, across the conductors. Two lines of holes were drilled across two separate conductors. In total 18 holes having an aggregate length of 142.0 meters were completed. Weights of recovered samples ranged from 113.9 to 325.5 grams, having an average of 209.7 grams. Drill logs, summarizing the types of overburden encountered, were completed simultaneously with the drilling, by the drill crew personnel.

Sample preparation was done by R. Cormier and Associates Ltd. Initially the samples were screened into +5, -5 to +250 and -250 mesh size fractions. The -5 to +250 mesh fraction was then subjected to heavy liquid separations using tetrabrom-aform ( $2.96 \text{ gm/cm}^3$ ) and methylene iodide ( $3.2 \text{ gm/cm}^3$ ). Grains having specific gravities of between  $2.96$  to  $3.2 \text{ gm/cm}^3$  and greater than  $3.2 \text{ gm/cm}^3$  were then subjected to magnetic separations. Microscopic examination of the magnetic and non magnetic portions of the -5 to +250 mesh size fraction, with a specific gravity of greater than  $3.2 \text{ gm/cm}^3$ , was completed by C.F. Gleeson and Associates Limited. The +5 mesh size fraction underwent binocular microscopic examination by the author of this report.

#### Property Geology

The description of the property's geology is taken from the results of a geological mapping survey completed in

the summer of 1985, at a 1:5000 scale, on the Fallon South Grid for Mr. David J. Meunier. Mapping was partially completed by the author of this report.

### Lithology

Areas where sampling was undertaken are dominantly underlain by Archean aged calc-alkaline intermediate to mafic metavolcanic flows and pyroclastics that are intercalated on a scale of tens to hundreds of meters. Rarely occurring as thin units associated with the intermediate tuffs are felsic metavolcanic tuffs. Intruding and altering the metavolcanics are a large number of Archean monzonitic plugs and dikes. Minor, thin north-south trending mafic dikes intrude the monzonite intrusives and metavolcanics. West of the sampled lines is a large outlier of Proterozoic, Cobalt Group, Huronian, relatively flat lying sediments. Several hundred meters west of line 2E there is a thick NNE trending Proterozoic diabase dike.

Pyroclastics are mainly intermediate in composition and include tuff, lapilli tuff and agglomerate varieties. Normally they are grey to green in colour, hosting subrounded to subangular white to pink coloured fragments in a fine grained matrix. On occasion the pyroclastics display a well developed banding. Agglomerates and lapilli tuffs could not be differentiated from the tuffs, by microscopic examination.

Flows are normally mafic in composition, and green to black in colour. They occur predominantly as fine grained massive and less commonly as porphyritic varieties. Porphyritic flows host up to 30%, 0.5mm - 1.0mm diameter plagioclase phenocrysts in a fine grained matrix. The flows are occasionally magnetic.

Porphyritic monzonites are pink to grey in colour and host up to 40%, 0.5mm - 7.0mm diameter, feldspar phenocrysts in a medium grained matrix. Most commonly they contain no quartz and hornblende ± pyroxene is their only mafic constituent. Less frequently the porphyritic monzonites contain up to 10% quartz and biotite is the primary mafic mineral. Equigranular varieties of the monzonite are locally present.

Mafic dikes are dark green to black, fine grained units having thicknesses not exceeding 2 meters.

Felsic tuffs are grey, extremely hard, finely banded to massive units that are very fine grained. The tuffs have thicknesses not exceeding 10 meters in the sampled area. North of the sampled area, felsic tuff-lapilli tuff units attain thicknesses of up to 60 meters.

Huronian sediments occur as buff, maroon, grey, brown and green coloured siltstones, argillites, sandstones, greywackes and conglomerates. They are devoid of alteration and lack indicators of deformation.

The Proterozoic diabase is a grey to green coloured 50-100 meter thick unit that is medium grained and only weakly to non magnetic.

### Quaternary Geology

Ninety five percent of the grid area is overlain by unconsolidated Quaternary deposits. Glaciolacustrine clay and silt are the dominant deposit type, covering approximately 70% of the area (Lee 1979) Subordinate peat and organic terrain overlies the glaciolacustrine sediments. Outcrop areas on the southwest grid region are covered by C horizon soil or a thin veneer of till. Basal till and/or gravel was found to have a thickness of 0.2-4.4 meters. Overburden in the sampled holes had an average depth of 7.9 meters. Glacial material is believed to have been transported from north to south (Pyke, 1970)

### Structural Geology

Bedding and flow strike directions vary from 0°-150° with steep north and south dips. Overall the units have an east-west strike direction. The metavolcanic units have been subjected to an early period of E.S.E. shearing that is associated with small scale axial planar folding. A second, later, period of deformation involves faulting along north-south trends in a dominantly left lateral sense. Drag folding of the metavolcanic units is prevalent adjacent to the north-south faults, causing the

volcanic units to partially align themselves with the faults. The north-south trending faults were at one time extensional features, being infilled by the mafic dikes and barren quartz veins.

### Economic Geology

Quartz-epidote-feldspar ± carbonate - pyrite alteration occurs in discrete zones and is related to the E.S.E. period of shearing. The intensity of alteration and pyrite mineralization increases towards the monzonite stocks and dikes. Possibly the shearing event is synchronous with the intrusion of the monzonite. Minor barren quartz veins and specular hematite veins are associated with weak alteration in and along north-south trending fracture/fault zones. No instances of economic mineralization are known in the immediate area or were observed on the property.

### Results of Till Identification

Drill logs, detailing the types of overburden encountered, were completed by drill contractor personnel while drilling was underway. These logs are presented in appendix I, at the back of the report. Most holes initially encountered 0.1 to 0.2 meters of organic material followed by a variable thickness of either clay, or silt followed by sand and gravel horizons. Basal till was normally encountered 1.0 to 0.2 meters above the bedrock-overburden interface. On two occasions the holes ended in sand

or gravel with no till being recovered. C horizon soil was sampled at one location. The depth of overburden varied from 0.2 to 16.0 meters having an average of 7.9 meters.

#### Results of +5 Mesh Clast Identification

Major and minor clast lithology types, along with overburden depth, number of clasts and sample type are presented on the map in the back pocket of this report. Clast lithology identifications failed to determine the causes of the conductors. Samples taken from line 2E indicate that intermediate tuffs and flows are the major lithology type underlying or up-ice from the sample sites. Lesser amounts of porphyritic and equigranular monzonite, mafic volcanic flow, granites, vein quartz, diabase, Huronian sediments and felsic tuffs are also present. On line 4E mafic volcanic flows are the major clast type with lesser amounts of intermediate tuffs, monzonites, diabases, intermediate flows, felsic volcanics and Huronian sediments being observed. Mafic-intermediate volcanics are invariably chlorite altered and have occasionally undergone carbonate, silica and epidote alteration. Trace to one percent pyrite was observed as fine disseminations hosted in metavolcanic flows in samples 5060, 5068, and 5069. Several clasts are weakly to moderately schistose. Clast identification confirms earlier bedrock mapping which indicated the presence of intercalated intermediate flows and tuffs intruded by porphyritic monzonite on line 2E, where outcrop is proximal

to the sample locations. On line 4E, where outcrop is absent, the presence of magnetic mafic volcanic clasts may suggest a iron rich tholeiitic sequence of volcanic flows on the south of the Fallon South Grid.

Heavy Mineral (+3.2gm/cm<sup>3</sup>), -5 to +250 Mesh Identifications

Results of the heavy mineral identifications are presented in appendix II. No explanation for the conductors was noted. Minerals occurring in amounts consistently greater than 5% and listed in order of abundance of are; pyroxene, epidote, magnetite, amphibole, and garnet. Minerals occurring in minor amounts include; apatite, biotite, chromite, illmenite, hematite, leucocene, sphene, tourmaline, pyrite and zircon. Samples 5066 and 5067 are notable because of the altered nature of their mineral grains. One to three percent pyrite is present in samples 5060 to 5067 which compares to trace amounts in the other samples. Higher than average epidote values in samples 5060-5069 may be indicative of shear related alteration that is also associated with the increased pyrite content of most of these samples. Several of the +5 mesh clasts, over this sample interval, are epidote-carbonate altered.



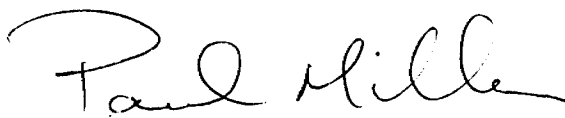
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- PYKE, D.R. (1982): Geology of the Timmins Area, District of Cochrane, Ontario Geological Survey Report 219 141p.
- PYKE, D.R. (1972): Geology of Fallon and Fasken Townships; District of Timiskaming; Ontario, Division of Mines, Geology Report 104, 32p.

CERTIFICATION

I, PAUL D. MILLER, certify:

1. That I reside at 448 Eglinton Ave. West, Toronto, Ontario.
2. That I graduated from the University of Toronto in 1980 with a B.A.Sc. in Geological Engineering.
3. That I have been continuously employed as an exploration geologist since 1980.



---

P. Miller  
Geologist

APPENDIX I  
Overburden Drill Logs



R. Cormier & Associés Ltée  
Associates Ltd.

2050, Thibault,  
Bécancour, Qué.  
Canada, G0X 1B0  
Tel. - (819) 294-9939

OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5060	DRILL No./No DU TROU: 60	DATE: 2/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: RL-FE	SAMPLERS./SONDEURS: RL-FE	CONTRACT./CONTRAT: LAC MINÉRIAL
LINE./LIGNE: 2-E	STATION: 3700-S	LOCATION./LOCALITÉ: P S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED: DÉBUT DE POINTE: SAMPLER STARTED: DÉBUT D'ÉCHANTILLON:  
POINT STOPPED: ARRÊT DE POINTE: SAMPLER STOPPED: ARRÊT D'ÉCHANTILLON:  
POINT EXTRACTED: EXTRACTION DE POINTE: SAMPLER EXTRACTED: EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	2	ORGANIC	ORGANIC ORGANIQUE %
2	4	COARSE SAND	CLAY ARGILE %
4	4.6	BOL DEUR	SILT SILTE %
4.6	4.8	BASAL TILL	FINE SAND SABLE FIN %
	4.8	BED ROCK	MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5061	DRILL No./No DU TROU: 61	DATE: 2/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 7.2	SAMPLERS./SONDEURS: RL-FE	CONTRACT./CONTRAT: LAC MINÉRIAL
LINE./LIGNE: 2-E	STATION: 3750 S	LOCATION./LOCALITÉ: F S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED: DÉBUT DE POINTE: SAMPLER STARTED: DÉBUT D'ÉCHANTILLON:  
POINT STOPPED: ARRÊT DE POINTE: SAMPLER STOPPED: ARRÊT D'ÉCHANTILLON:  
POINT EXTRACTED: EXTRACTION DE POINTE: SAMPLER EXTRACTED: EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	1	ORGANIC	ORGANIC ORGANIQUE %
1	4	CLAY	CLAY ARGILE %
4	6	COARSE SAND	SILT SILTE %
6	7	FINE SAND	FINE SAND SABLE FIN %
7	7.2	BASAL TILL	MEDIUM SAND SABLE MED. %
	7.2	BED ROCK	COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5062	DRILL No./No DU TROU: 62	DATE: 2/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 14.2	SAMPLERS./SONDEURS: RL-FL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 2-E	STATION: 3775-S	LOCATION./LOCALITÉ: FS

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	4	ORGANIC	ORGANIC ORGANIQUE %
4	10	CLAY	CLAY ARGILE %
10	12	FINE SAND	SILT SILTE %
12	13.4	GRAVEL	FINE SAND SABLE FIN %
13.4	14	BOL DEUR	MEDIUM SAND SABLE MED. %
14	14.2	BASAL TILL	COARSE SAND SABLE GROS %
1	14.2	BED ROCK	GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5063	DRILL No./No DU TROU: 63	DATE: 3/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 12.2	SAMPLERS./SONDEURS: RL FL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 2-E	STATION: 3775 S	LOCATION./LOCALITÉ: FS

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	4	ORGANIC	ORGANIC ORGANIQUE %
4	7	CLAY	CLAY ARGILE %
7	10	FINE SAND	SILT SILTE %
10	12	COARSE SAND	FINE SAND SABLE FIN %
12	12.2	BASAL TILL	MEDIUM SAND SABLE MED. %
	12.2	BED ROCK	COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5064	DRILL No./No DU TROU: 64	DATE: 3/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 16 M	SAMPLERS./SONDEURS: RL-FL	CONTRACT./CONTRAT: LAC MINÉRAL
LINE./LIGNE: 2 E	STATION: 4700 S	LOCATION./LOCALITÉ: F S

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	2	ORGANIC	ORGANIC ORGANIQUE %
2	8 M	CLAY	CLAY ARGILE %
8	12	CORSE SAND	SILT SILTE %
12	14	BOL DEUR	FINE SAND SABLE FIN %
14	15.8	CORSE SAND	MEDIUM SAND SABLE MED %
15.8	16	BASAL TILL	COARSE SAND SABLE GROS %
	16	BED ROCK	GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5065	DRILL No./No DU TROU: 65	DATE: 3/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 13 M	SAMPLERS./SONDEURS: RL-FL	CONTRACT./CONTRAT: LAC MINÉRAL
LINE./LIGNE: 2 E	STATION: 4712.5 S	LOCATION./LOCALITÉ: F S

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	3	ORGANIC	ORGANIC ORGANIQUE %
3	7	CLAY	CLAY ARGILE %
7	10	CORSE SAND	SILT SILTE %
10	12.8	GRAVEL	FINE SAND SABLE FIN %
12.8	13	BASAL TILL	MEDIUM SAND SABLE MED %
	13	BED ROCK	COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %
		2 TRAIL	

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5066	DRILL No./No DU TROU: 66	DATE: 3/6/85
SAMPLE DEPTH./ PROF.D'ÉCHANT: 12 M	SAMPLERS./ SONDEURS: RL-FL	CONTRACT./ CONTRAT: LAC MINERAL
LINE./ LIGNE: 2 E	STATION: 4725-S	LOCATION./ LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON	
FROM DE	TO A			
0	0.2	ORGANIC	ORGANIC	%
0.2	6	CLAY	CLAY	%
6	10	FINE SAND	SILT	%
10	11.8	COARSE SAND	SABLE FIN	%
11.8	12	BASAL TILL	MEDIUM SAND	%
	12	BED ROCK	COARSE SAND	%
			SABLE GROS	%
			GRAVEL	%
			GRAVIER	%
			PEBBLES	%
			CAILLOUX	%

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5067	DRILL No./No DU TROU: 67	DATE: 4/6/85
SAMPLE DEPTH./ PROF.D'ÉCHANT: 10.2	SAMPLERS./ SONDEURS: RL-FL	CONTRACT./ CONTRAT: LAC MINERAL
LINE./ LIGNE: 2 E	STATION: 4737.5 S	LOCATION./ LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON	
FROM DE	TO A			
0	0.2	ORGANIC	ORGANIC	%
0.2	3	FINE SAND	CLAY	%
3	6	BOL DEUR	ARGILE	%
6	10	GRAVEL	SILT	%
10	10.2	BASAL TILL	SABLE FIN	%
	10.2	BED ROCK	MEDIUM SAND	%
			SABLE MED	%
			COARSE SAND	%
			SABLE GROS	%
			GRAVEL	%
			GRAVIER	%
			PEBBLES	%
			CAILLOUX	%

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: 2E5068	DRILL No./No DU TROU: 68	DATE: 4/6/85
SAMPLE DEPTH./ PROF.D'ÉCHANT: 2.4 M	SAMPLERS./ SONDEURS: RL-FL	CONTRACT./ CONTRAT: LAC MINÉRAL
LINE./ LIGNE: 2E	STATION: 4750 S	LOCATION./ LOCALITÉ: F S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	0.2	ORGANIC	ORGANIC ORGANIQUE %
0.2	3	COARSE SAND	CLAY ARGILE %
3	7.2	BOL OEUR	SILT SILTE %
7.2	7.4	BASAL TILL	FINE SAND SABLE FIN %
	7.4	RED ROCK	MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: 2E5069	DRILL No./No DU TROU: 69	DATE: 4/6/85
SAMPLE DEPTH./ PROF.D'ÉCHANT: 2 M	SAMPLERS./ SONDEURS: RL-FL	CONTRACT./ CONTRAT: LAC MINÉRAL
LINE./ LIGNE: 2E	STATION: 4762.5 S	LOCATION./ LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	0.2	ORGANIC	ORGANIC ORGANIQUE %
0.2	1.6	BOL OEUR	CLAY ARGILE %
1.6	2M	BASAL TILL	SILT SILTE %
	2M	RED ROCK	FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:





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SAMPLE No./No D'ÉCHANTILLON: LE5070	DRILL No./No DU TROU: 70	DATE: 4/6/85
SAMPLE DEPTH./ PROF. D'ÉCHANT: 2 M	SAMPLERS./ SONDEURS: RL - FL	CONTRACT./ CONTRAT: LAC MINERAL
LINE./ LIGNE: 2 E	STATION: 4795 S	LOCATION./ LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	.1	ORGANIC	ORGANIC ORGANIQUE %
.1	1.6	BOL DEUR	CLAY ARGILE %
1.6	1.8	CORSE SAND	SILT SILTE %
1.8	2M	BASAL TILL	FINE SAND SABLE FIN %
	2M	BED ROCK	MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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SAMPLE No./No D'ÉCHANTILLON: LE5071	DRILL No./No DU TROU: 71	DATE: 4/6/85
SAMPLE DEPTH./ PROF. D'ÉCHANT: 1.3 M	SAMPLERS./ SONDEURS: RL FL	CONTRACT./ CONTRAT: LAC MINERAL
LINE./ LIGNE: 2 E	STATION: 4787.5-S	LOCATION./ LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	.1	ORGANIC	ORGANIC ORGANIQUE %
.1	1M	BOL DEUR	CLAY ARGILE %
1	1.3	BASAL TILL	SILT SILTE %
	1.3	BED ROCK	FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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SAMPLE No./No D'ÉCHANTILLON: <i>LE50 72</i>	DRILL No./No DU TROU: <i>72</i>	DATE: <i>5/6/85</i>
SAMPLE DEPTH./PROF.D'ÉCHANT: <i>.5</i>	SAMPLERS./ SONDEURS: <i>RL-FL</i>	CONTRACT./ CONTRAT: <i>LAC MINÉRAL</i>
LINE./ LIGNE: <i>2E</i>	STATION: <i>5700 S</i>	LOCATION./LOCALITÉ: <i>F-S</i>

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO À		
<i>0</i>	<i>.2</i>	<i>ORGANIC</i>	ORGANIC ORGANIQUE %
<i>.2</i>	<i>.5</i>	<i>BASAL TILL</i>	CLAY ARGILE %
	<i>.5</i>	<i>GEO ROCK</i>	SILT SILTE %
			FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: <i>LE50 73</i>	DRILL No./No DU TROU: <i>73</i>	DATE: <i>5/6/85</i>
SAMPLE DEPTH./PROF.D'ÉCHANT: <i>OUT CROC</i>	SAMPLERS./ SONDEURS: <i>RL-FL</i>	CONTRACT./ CONTRAT: <i>LAC MINÉRAL</i>
LINE./ LIGNE: <i>2E</i>	STATION: <i>5725 S</i>	LOCATION./LOCALITÉ: <i>F-S</i>

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO À		
<i>0</i>	<i>0</i>	<i>OUT CROC</i>	ORGANIC ORGANIQUE %
			CLAY ARGILE %
			SILT SILTE %
			FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5074	DRILL No./No DU TROU: 74	DATE: 5/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 2M	SAMPLERS./SONDEURS: RL-FL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 4E	STATION: 10750-S	LOCATION./LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	.2	ORGANIC	ORGANIC ORGANIQUE %
.2	1.8	BOL OEUR	CLAY ARGILE %
1.8	2	BASAL TILL	SILT SILTE %
	2M	BED ROCK	FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %
		3 TRAIL	

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE5075	DRILL No./No DU TROU: 75	DATE: 5/6/85
SAMPLE DEPTH./PROF.D'ÉCHANT: 3.5	SAMPLERS./SONDEURS: RL-FL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 4-E	STATION: 10775-S	LOCATION./LOCALITÉ: F-S

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	.2	ORGANIC	ORGANIC ORGANIQUE %
.2	3.2	BOL OEUR	CLAY ARGILE %
3.2	3.5	BASAL TILL	SILT SILTE %
3	3.5	BED ROCK	FINE SAND SABLE FIN %
			MEDIUM SAND SABLE MED. %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %
		2 TRAIL	

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: LE 50 76	DRILL No./No DU TROU: 76	DATE: 6/16/85
SAMPLE DEPTH./PROF. D'ÉCHANT: 9.5M	SAMPLERS./SONDEURS: RL - RL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 4-E	STATION: 11700-S	LOCATION./LOCALITÉ: F-S

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

POINT STOPPED:  
ARRÊT DE POINTE:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	2	ORGANIC	ORGANIC ORGANIQUE %
2	7	FINE SAND	CLAY ARGILE %
7	8	GRAVEL	SILT SILTE %
8	9.3	CORSE SAND	FINE SAND SABLE FIN %
9.3	9.5	BASAL TILL	MEDIUM SAND SABLE MED. %
	9.5	RED ROCK	COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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SAMPLE No./No D'ÉCHANTILLON: LE 50 77	DRILL No./No DU TROU: 77	DATE: 6/16/85
SAMPLE DEPTH./PROF. D'ÉCHANT: 11.8	SAMPLERS./SONDEURS: RL - FL	CONTRACT./CONTRAT: LAC MINERAL
LINE./LIGNE: 4-E	STATION: 11725-S	LOCATION./LOCALITÉ: F-S

DRILLING-TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

POINT STOPPED:  
ARRÊT DE POINTE:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	3	ORGANIC	ORGANIC ORGANIQUE %
3	5	FINE SAND	CLAY ARGILE %
5	8	CORSE SAND	SILT SILTE %
8	11.5	GRAVEL	FINE SAND SABLE FIN %
11.5	11.8	BASAL TILL	MEDIUM SAND SABLE MED. %
	11.8	RED ROCK	COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:



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OVERBURDEN DRILLING LOG  
JOURNAL DE FORAGE MORT TERRAIN

SAMPLE No./No D'ÉCHANTILLON: <b>455079</b>	DRILL No./No DU TROU: <b>79</b>	DATE: <b>12/6/85</b>
SAMPLE DEPTH:/ PROF. D'ÉCHANT: <b>14.2</b>	SAMPLERS:/ SONDEURS: <b>RL-FL</b>	CONTRACT:/ CONTRAT: <b>LAC MINERAL</b>
LINE:/ LIGNE: <b>4 E</b>	STATION: <b>11437.5-S</b>	LOCATION:/ LOCALITÉ: <b>F.S</b>

DRILLING TIME - FEUILLE DE TEMPS

POINT STARTED:  
DÉBUT DE POINTE:

SAMPLER STARTED:  
DÉBUT D'ÉCHANTILLON:

POINT STOPPED:  
ARRÊT DE POINTE:

SAMPLER STOPPED:  
ARRÊT D'ÉCHANTILLON:

POINT EXTRACTED:  
EXTRACTION DE POINTE:

SAMPLE EXTRACTED:  
EXTRACTION D'ÉCHANTILLON:

FOOTAGE PROFONDEUR		OVERBURDEN DESCRIPTION DESCRIPTION DU MORT TERRAIN	SAMPLE DESCRIPTION ÉCHANTILLON
FROM DE	TO A		
0	.2	ORGANIC	ORGANIC ORGANIQUE %
.2	8.2	CLAY	CLAY ARGILE %
8	13.8	FINE SAND	SILT SILTE %
13.8	14.2	BASAL TILL	FINE SAND SABLE FIN %
	14.2	RED ROCK	MEDIUM SAND SABLE MED %
			COARSE SAND SABLE GROS %
			GRAVEL GRAVIER %
			PEBBLES CAILLOUX %

REMARKS:  
REMARQUES:

APPENDIX II

Mineral identifications of the Heavy Mineral  
Separates of the -5 to +250 Mesh Size Fraction

## Methylene Iodide Heavies

MINERAL	SAMPLE NUMBERS				
	5LE-5060	5LE-5061	5LE-5062	5LE-5063	5LE-5064
AMPHIBOLE	15	20 some coarse	20	20	13
ANATASE					
ANDALUSITE					
APATITE	Tc <sup>2</sup>	Tc <sup>2</sup>	Tc	Tc	Tc <sup>=</sup>
ARSENOPYRITE					
BARITE					
BIOTITE	Tc			Tc	
CARBONATE	Tc			?	
CHALCOPYRITE					
CHLORITE					
CHROMITE			Tc		Tc
CASSITERITE					
DOLOMITE					
EPIDOTE	20	15	18	18	28
FLUORITE					
GARNET Pink	12	12	8	10	12
GARNET Red	4	4	3	1	Tc-1
GARNET P					
GARNET Y	Tc	Tc	Tc	Tc	
GARNET O	Tc	Tc	<del>2</del> 2	<del>2</del> 2	Tc-1
GOE-LIM	Tc			Tc	<del>1</del> 1
GOLD					
HEMATITE	Tc <sup>S+R</sup>	Tc <sup>R</sup>	Tc <sup>R</sup>	Tc <sup>R+S</sup>	Tc <sup>S+R</sup>
ILMENITE	1 xl	Tc-1	Tc-1 xl	1	2
KYANITE			Tc?		
LEUCOXENE	Tc		Tc		
MAGNETITE	15 mainly f gr. some aggr. w. m.	15 mainly f gr. some aggr. w. m.	14 mainly f gr. some aggr. w. m.	14 f gr.	13 f gr.
MONAZITE					
MUSCOVITE				Tc?	
OLIVINE					
PYRITE	1	1	1	1	3
PYROXENE	32	33	34	33	18
PYRRHOTITE					
QUARTZ					
RUTILE					
SCHEELITE					
SERICITE					
SERPENTINITE					
SILLIMANITE					
SPHENE	Tc	Tc	Tc	Tc	Tc
SPINEL					
TOURMALINE			Tc	Tc	
TOPAZ					
ZIRCON	Tc	Tc	Tc	Tc	Tc

## REMARKS:

5060: one fragment of andesite?

xl: some shiny, conchoidal fractures

5061: some fragments of volcanic rock (silicified?) some with pyrite

## Methylene Iodide Heavies

MINERAL	SAMPLE NUMBERS				
	5LE-5065	5LE-5066	5LE-5067	5LE-5068	5LE-5069
AMPHIBOLE	5	2	9	10	16
ANATASE					
ANDALUSITE					
APATITE	Tc <sup>-</sup>	Tc	Tc	Tc <sup>-</sup>	Tc <sup>-</sup>
ARSENOPYRITE					
BARITE					
BIOTITE	Tc				Tc aggr.
CARBONATE					
CHALCOPYRITE	Tc?				
CHLORITE					
CHROMITE					Tc
CASSITERITE					
DOLOMITE					
EPIDOTE	15	1	9	13	20
FLUORITE					
GARNET Pink	15	1	10	13	10
GARNET Red	10	Tc	Tc	2	2
GARNET P					
GARNET Y	Tc				
GARNET O	Tc		Tc	E1	Tc
GOE-LIM	Tc	Tc	#1	Tc	Tc
GOLD					
HEMATITE	Tc <sup>R+S</sup>	Tc <sup>R</sup>		Tc <sup>R+S</sup>	Tc <sup>S+R</sup>
ILMENITE	Tc-1	Tc	Tc	Tc	Tc
KYANITE				Tc	
LEUCOXENE	Tc	Tc	Tc	Tc	Tc
MAGNETITE	25 f. gr.	12 + 2	56 + gr.	16 f-m gr.	17 f. gr.
MONAZITE					
MUSCOVITE					
OLIVINE					
PYRITE	2 x1	Tc	1	Tc-1	Tc
PYROXENE	28	84 x 3	13	35	35
PYRRHOTITE					
QUARTZ					
RUTILE					
SCHEELITE					
SERICITE					
SERPENTINITE					
SILLIMANITE					
SPHENE	Tc	Tc	#1	Tc	Tc
SPINEL					
TOURMALINE	Tc	Tc		Tc	
TOPAZ					
ZIRCON	Tc		Tc	Tc	

## REMARKS:

- \*1: some aggregated as fine grained pyrite in silicified rock; some globular - euhedral?
- \*2: 50% of magnetic fraction is very fine grained magnetite<sup>disseminated</sup> in silicified rock fragments and pyroxenes, 50% is fine grained magnetite
- 5066: large fragment of altered volcanic
- \*3: most is yellowish (oxidized?) and contains disseminated very fine grained metallic minerals - some may be quartz.



## Methylene Iodide Heavies

MINERAL	SAMPLE NUMBERS				
	SLE-5070	SLE-5071	SLE-5072	SLE-5073	SLE-5074
AMPHIBOLE	5	7	35 #1		17
ANATASE					
ANDALUSITE					
APATITE	Tc =	-	-		Tc =
ARSENOPYRITE					
BARITE					
BIOTITE					
CARBONATE					
CHALCOPYRITE				NO	
CHLORITE					
CHROMITE					
CASSITERITE					
DOLOMITE					
EPIDOTE	15	15	10		15
FLUORITE					
GARNET Pink	25	20	5	SAMPLE	15
GARNET Red	2	4	Tc		2
GARNET P					
GARNET Y	Tc	Tc			Tc
GARNET O	Tc	Tc	Tc		Tc
GOE-LIM		Tc	Tc		Tc
GOLD					
HEMATITE	Tc R	Tc S + R			Tc R
ILMENITE	Tc	Tc-1	10		Tc
KYANITE					
LEUCOXENE		Tc			
MAGNETITE	21 fgs	23 fine gr.	15 f-m gr.		21 #2
MONAZITE					
MUSCOVITE					
OLIVINE					
PYRITE	Tc	Tc	-		Tc
PYROXENE	32	31	25		30
PYRRHOTITE					
QUARTZ					
RUTILE					
SCHEELITE					
SERICITE					
SERPENTINITE					
SILLIMANITE					
SPHENE	Tc	Tc	-		Tc
SPINEL					
TOURMALINE		Tc			
TOPAZ					
ZIRCON	Tc	Tc	Tc		Tc

## REMARKS:

#1: much of this is coarse and clean, whereas most particles are coated. therefore # must be from bedrock.

#2: mainly fine grained - some plagioclase or amphibole aggregates

## Methylene Iodide Heavies

MINERAL	SAMPLE NUMBERS				
	5LE-5075	5LE-5076	5LE-5077	5LE-	5LE-
AMPHIBOLE	25	25	10		
ANATASE					
ANDALUSITE					
APATITE	Tc	Tc	Tc <sup>2</sup>		
ARSENOPYRITE					
BARITE					
BIOTITE					
CARBONATE					
CHALCOPYRITE					
CHLORITE					
CHROMITE					
CASSITERITE					
DOLOMITE					
EPIDOTE	18	18	25		
FLUORITE					
GARNET Pink	8	10	12		
GARNET Red	2	3	2		
GARNET P					
GARNET Y	Tc		Tc		
GARNET O	Tc	Tc	Tc		
GOE-LIM	Tc		Tc		
GOLD					
HEMATITE	Tc R+S	Tc R	Tc R		
ILMENITE	Tc	Tc	Tc		
KYANITE			Tc		
LEUCOXENE					
MAGNETITE	17 *1	13 f q.	18 p. q.		
MONAZITE					
MUSCOVITE	Tc greenish				
OLIVINE					
PYRITE	Tc	Tc	Tc		
PYROXENE	30	31	33		
PYRRHOTITE					
QUARTZ		Tc			
RUTILE					
SCHEELITE					
SERICITE					
SERPENTINITE					
SILLIMANITE					
SPHENE	Tc	Tc	Tc		
SPINEL					
TOURMALINE		Tc	Tc		
TOPAZ					
ZIRCON	Tc	Tc	Tc		

## REMARKS:

\*1: mainly fine grained, some plag or amphibole aggr.

5075: Tc fragments of volcanic rock

5076: one large fragment, banded volcanic rock with pyrite

LAC MINERALS: Heavy Mineral Identifications Sept 13/65

MINERAL	SAMPLE NUMBERS	
	FALLON	SOUTH
	5LE 5079	
AMPHIBOLE	10	
ANATASE		
ANDALUSITE		
APATITE		
ARSENOPYRITE		
BARITE		
BIOTITE		
CARBONATE		
CHALCOPYRITE		
CHLORITE		
CHROMITE		
CASSITERITE		
DOLOMITE		
EPIDOTE	10	
FLUORITE		
GARNET Pink	20	
GARNET Red-br	5	
GARNET P		
GARNET Yellow		
GARNET O		
GOE-LIM		
GOLD		
HEMATITE		
ILMENITE	5	
KYANITE		
LEUCOXENE	h	
MAGNETITE	20	
MONAZITE		
MUSCOVITE		
OLIVINE		
PYRITE		
PYROXENE	30	
PYRRHOTITE		
QUARTZ		
RUTILE		
SCHEELITE		
SERICITE		
SERPENTINITE		
SILLIMANITE		
SPIHENE		
SPINEL		
TOURMALINE		
TOPAZ		
ZIRCON	h	

REMARKS:

- 5081 - garnets are mostly light - dark pink however 1 grain (1mm<sup>2</sup>)  
 Dark purple with black metallic inclusions
- 5081 - most pyrite coarse grained - subhedral.
- 5083 - brown, green and black pyroxene - m/c.g.

APPENDIX III

Geophysical-Geological-Geochemical  
Technical Data Statements



Ministry of  
Natural  
Resources

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

# 415/85  
28



42A02NW0028 2.8776 FALLON

Mining Act

Type of Survey(s): **Basal Till Sampling Survey** Township or Area: **Fallon Twp.**  
 Claim Holder(s): **David J. Meunier** *Mike Deshene* Prospector's Licence No.: **M-17157**  
 Address: **403 Dome St., South Porcupine, Ontario**  
 Survey Company: **R. Cormier and Associates** Date of Survey (from & to): **26 06 85 04 09 85** Total Miles of line Cut:  
 Name and Address of Author (of Geo-Technical report): **Paul Miller 448 Eglinton Ave W., Toronto.**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	792533	20			
	792535	1			
	792536	20			
	783572	1			
	783573	1			
	783574	1			
	792534	1			
	792539	1			
	663472	40			
	663473	40			
	663474	12			
		<b>138</b>			

**RECEIVED**  
DEC 18 1985  
MINING LANDS SECTION

**RECORDED**  
NOV -5 1985

Expenditures (excludes power stripping) *S. of 77-19*

Type of Work Performed: **Basal Till Sampling Survey**

Performed on Claim(s): **P663470; P663467; P654193**  
**P663907; P663910**

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 2070** ÷ **15** = **138** Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **11**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
138	Nov 5/85	<i>[Signature]</i>
	Date Approved as Recorded	Branch Director
	<i>[Signature]</i>	<i>[Signature]</i>

Date: **Nov 1/85** Recorder/Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **Brian H. Madill, P.O. Box 833 Kirkland Lake Ontario P2N 3K4**

Date Certified: **Nov 1/85** Certified by (Signature): *[Signature]*

Mining Lands Section

File No 28776

Control Sheet

TYPE OF SURVEY     GEOPHYSICAL  
                           GEOLOGICAL  
                           GEOCHEMICAL  
                           EXPENDITURE

MINING LANDS COMMENTS:

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*Red  
h.D.*

*S. Hurst*

Signature of Assessor

*Jan 17/86*

Date

February 14, 1986

Your File: 415/85  
Our File: 2.8776

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Assaying submitted under Section 77(19)  
of the Mining Act RSO 1980, on Mining  
Claims P 641734, et al, in Fallon Township

---

The enclosed statement of assessment work credits  
for assaying expenditures has been approved as of  
the above date.

Please inform the recorded holder of these mining  
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt, Director  
Land Management Branch

Mining Lands Section  
Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: David J. Maunier  
403 Dome Street, South  
South Porcupine, Ontario  
P0N 1H0

Brian M. Madill  
P.O. Box 833  
Kirkland Lake, Ontario  
P2N 3K4

Resident Geologist  
Timmins, Ontario

Encl.



Recorded Holder	DAVID J. MEUNIER
Township or Area	FALLON TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days  Section 77 (19) See "Mining Claims Assessed" column  <b>Geological</b> _____ days  <b>Geochemical</b> _____ days  Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/>  <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$2070.00 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:  P 641734 - 42 663470   138 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.

**Special credits under section 77 (16) for the following mining claims**

**No credits have been allowed for the following mining claims**

not sufficiently covered by the survey                       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



December 30, 1985

Report of Work:#415

David J. Meunier  
403 Dome Street  
South Porcupine, Ontario  
PON 1H0

Dear Sir:

RE: Mining Claims P 792533, et al,  
in the Township of Fallon

---

I have not received the data and maps (in duplicate)  
for the Basal Till Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the  
Mining Recorder on November 5, 1985 the 60 day period  
allowed by Section 77 of the Mining Act for the submission  
of the technical reports and maps to this office will  
expire on January 4, 1986.

If the material is not submitted to this office by January 4,  
1986 I will have no alternative but to instruct the Mining  
Recorder to delete the work credits from the claim record  
sheets.

For further information, please contact Mr. Arthur Barr at  
(416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

AB/mc  
cc: Brian Madill  
Kirkland Lake, Ontario

Mining Recorder  
Timmins, Ontario

Encl.



# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

## MAGNETIC

Instrument \_\_\_\_\_

Accuracy -- Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

## ELECTROMAGNETIC

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

## GRAVITY

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

## INDUCED POLARIZATION RESISTIVITY

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters -- On time \_\_\_\_\_ Frequency \_\_\_\_\_

-- Off time \_\_\_\_\_ Range \_\_\_\_\_

-- Delay time \_\_\_\_\_

-- Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

**SELF POTENTIAL**

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

**RADIOMETRIC**

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth - include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey \_\_\_\_\_ Basal Till Sampling Survey

Instrument \_\_\_\_\_ Pionjar Drill

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_ Clast lithology type, heavy grain mineral type, depth of overburden, and type of overburden

Additional information (for understanding results) \_\_\_\_\_ The pionjar drill is a percussion drill which obtains a single overburden sample from along the bedrock-overburden interface.

**AIRBORNE SURVEYS**

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken Three P-663470, P-641793 and P-641734

Total Number of Samples 18

Type of Sample Basal Till  
(Nature of Material)

Average Sample Weight 209.7gms

Method of Collection Pionjar Precussion  
drill

Soil Horizon Sampled Till horizon adjacent to bedrock

Horizon Development Moderate

Sample Depth Avg. 7.9 meters

Terrain Predominantly glaciolacustrine  
silt and clay

Drainage Development Poor

Estimated Range of Overburden Thickness  
0.0 - 16.0 meters

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

+5 mesh and -5 to +250 mesh

(> 3.2gm/cm<sup>3</sup>)

General \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dec 23/85

Dear Mr. Barr;

Enclosed please find 2 copies of a report entitled: Basal Till Sampling on the Fallon South Grid, Fallon Twp. We have previously filed a Report of Work (Expenditure Credits for Assessment) relating to this, with the Timmiers Mining Recorder.  
Trusting all is in order.

**RECEIVED**

JAN 2 1986

**MINING LANDS SECTION**

November 1<sup>st</sup> 19 85

Received from  
Reçu de

Lac Minerals Exploration

Two thousand seventy ————— Dollars  
100

Re: Basal Till Sampling "Fallon South"

\$ 2,070.<sup>00</sup>

R. Cormier + Associates  
Per R. Cormier

RECEIVED

JAN - 2 1986

MINING LANDS SECTION

641734  
42.

663470



# FALLON

## PORCUPINE MINING DIVISION DISTRICT OF TIMSKAMING

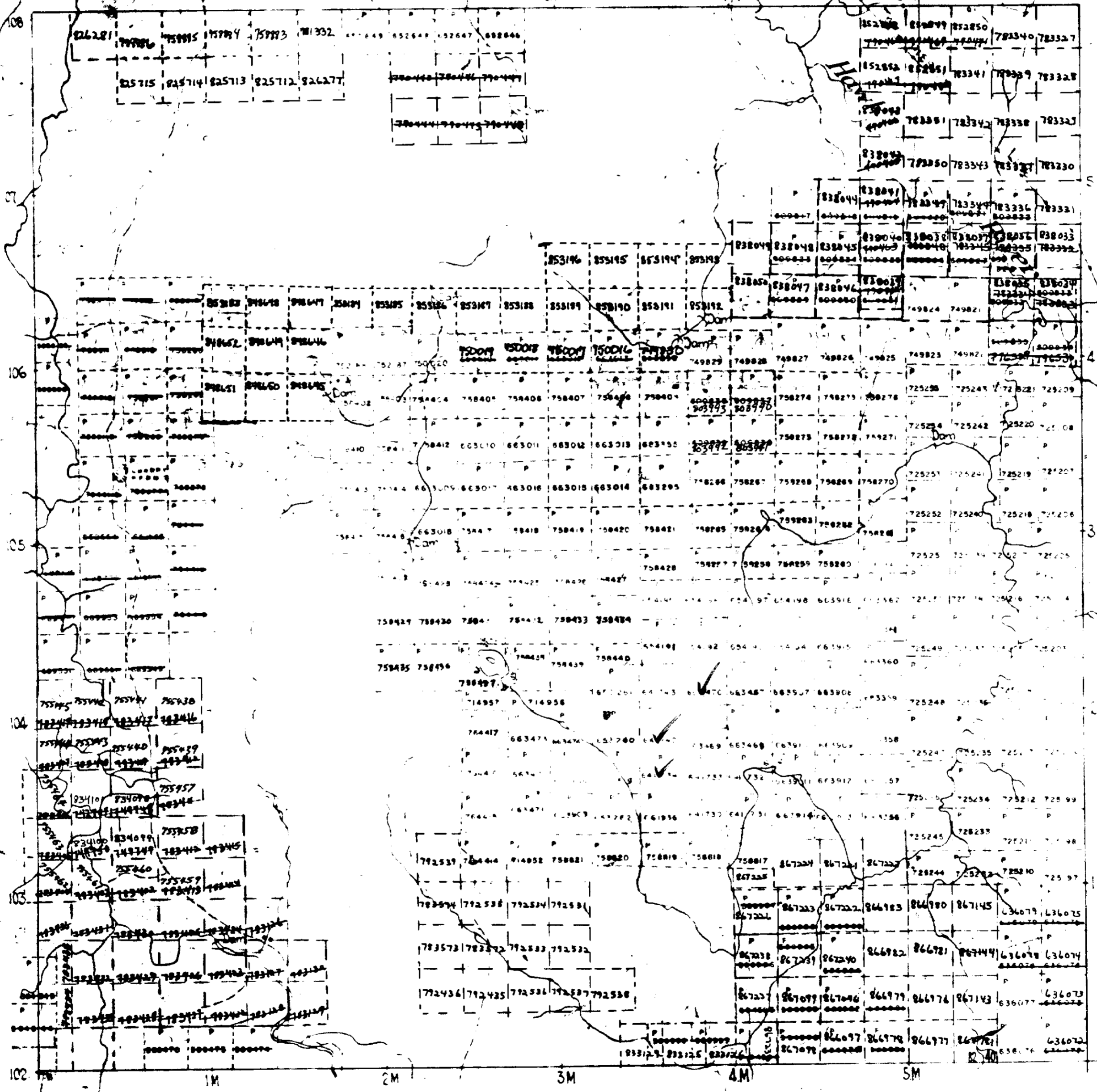
Scale - 40 Chains - 1 inch

*up to date as of:  
20/10 Dec 19/85*

### LANGMUIR

DOUGLAS

EASTMAN



#### LEGEND

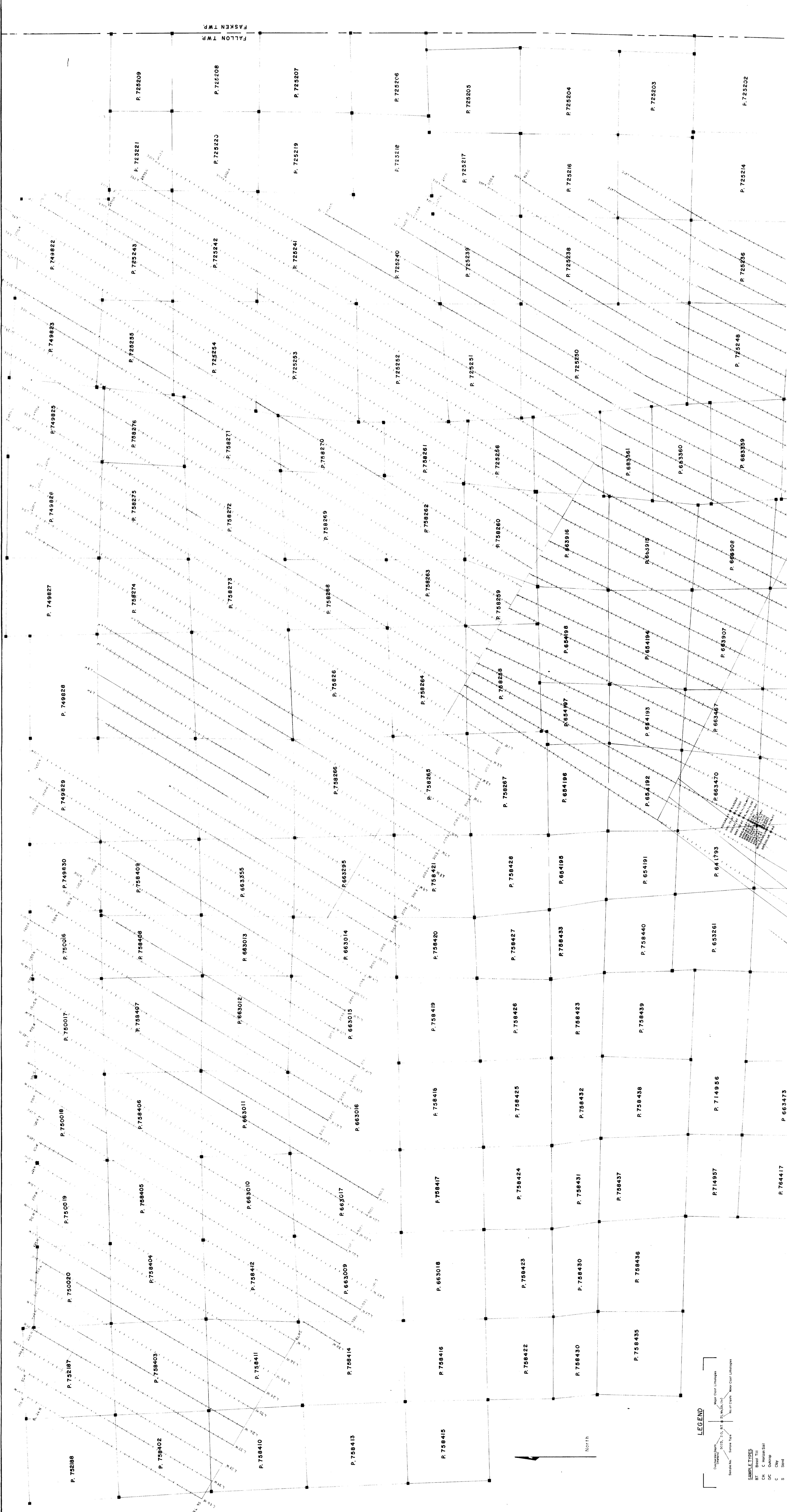
CANCELLED  
PATENTED LAND  
CROWN LAND SALE  
LEASES

- C
- CS
- LUC
- LO
- MRO
- SP

#### CLEAVER

400 Surface rights reservation around all lakes & rivers





FALLOON TWP.  
FASKEN TWP.

**LEGEND**

Overburden (Mud, Sand, Gravel)  
 Sample No. Sample Type  
 Mud Core (Mud) Mud Core (Clay) Mud Core (Sand) Mud Core (Gravel)

**SAMPLE TYPES**  
 BIT Bristle Till  
 CH C Horizon Soil  
 D/C Outcrop  
 C Clay  
 S Sand  
 G Gravel

North

