



41016NW0050 2.13938 SILK

010

**REPORT OF WORK - MARL PROJECT**

**OPAP GRANT 90-394**

**MARL LAKE CLAIM GROUP  
SILK TOWNSHIP NST 410/NE**



2.12619  
Qualification.

**P.W. Pitman, B.Sc., Geologist  
FACT FINDERS**



MARL LAKE

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1. INTRODUCTION

In recent years more stringent environmental concerns have forced mining companies to make a greater effort to reduce the seepage of acid solutions from mine dumps consisting of sulfide enriched tailings. An established usage of calcium carbonate and its various derivatives such as lime or its hydrated form has been to act as a neutralizer of sulfate-bearing waters. Based on this fact an idea was conceived to prospect for carbonate rich muds at the bottom of lakes in the area of central Ontario. These marl deposits had been previously used around the turn of the century as a source of calcium carbonate for the manufacturing of Portland cement, but have never been exploited for environmental purposes.

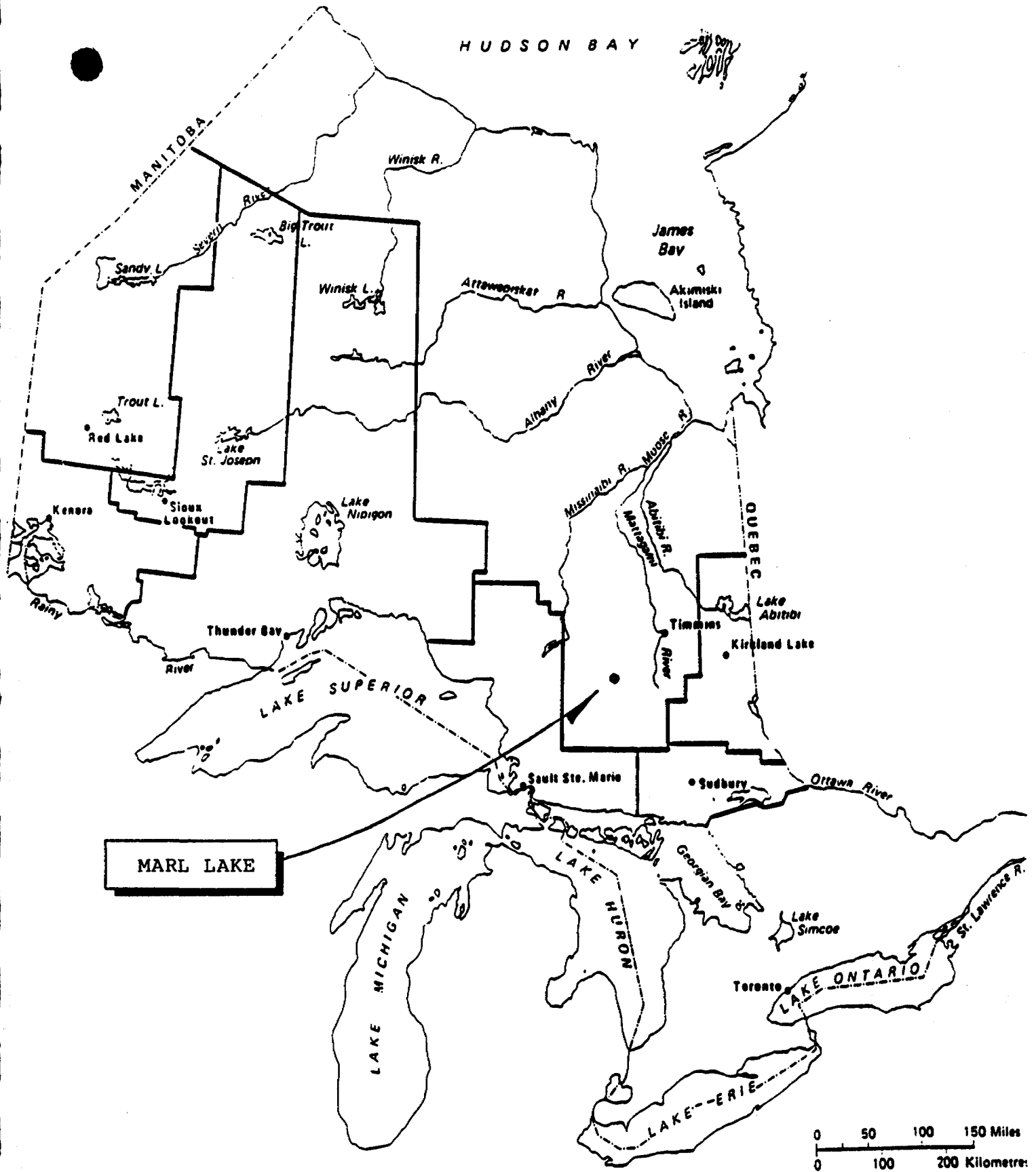
Marl Lake was selected as one of the better targets for exploration as it had been previously mentioned in Ontario Department of Mines Reports as a marl 'occurrence', but had not been sampled or prospected in detail. This report describes the sampling of sediments taken from the bottom of the lake and the results from the assaying of these very fine grained muds.

Because of the incentive provided by the Ministry of Northern Development and Mines, Mineral Development and Lands Branch in the way of an OPAP Grant, the discovery of an exceedingly rich finely precipitated carbonate deposit, as of yet undetermined size, has been made.

## 2. LOCATION, ACCESS

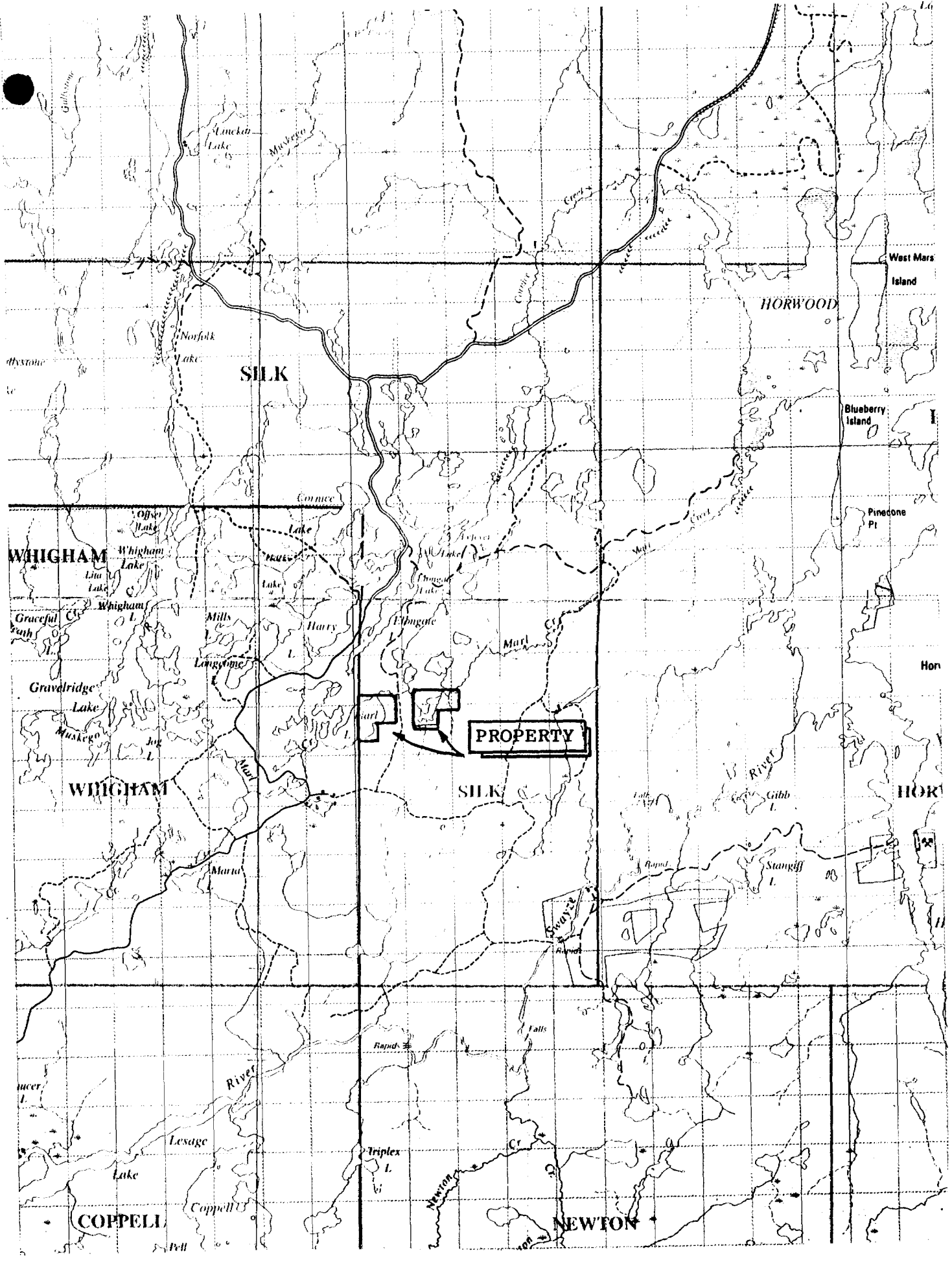
The properties are situated in north central Ontario, 130 kilometers southwest of the City of Timmins or 30 kilometers south of the town of Foleyet (figure 1). The claims, which are centered on Marl Lake, are located in Silk Township (NTS 410/NE; Lat. 48°, 47', Long. 82° , 28') at the border with Whigham Township.

Road access is possible year round to within 100 metres of the northwest end of Marl Lake in Whigham Township along a secondary logging haulage road off highway 101, just east of Foleyet (figure 2).



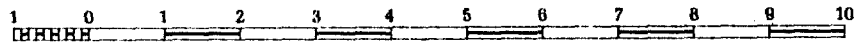
# LOCATION MAP

fig 1.



1:100 000

fig 2 ACCESS MAP



3. CLAIM STATUS

A total of 3 unpatented claims were staked in 1990 to cover a portion of Marl Lake which extends onto Silk Township and an additional 3 unpatented claims to protect a small pond found just east of the lake. It was not possible to stake the western half of Marl Lake as this township is designated as indian lands. There are no other claims in the vicinity of either property.

The claims are wholly owned and registered in the name of Paul Pitman. On the 18th day of July, 1990, the claims were transferred from the staker\* to Pitman by way of registry at the Ministry of Northern Development and Mines Office in Timmins.

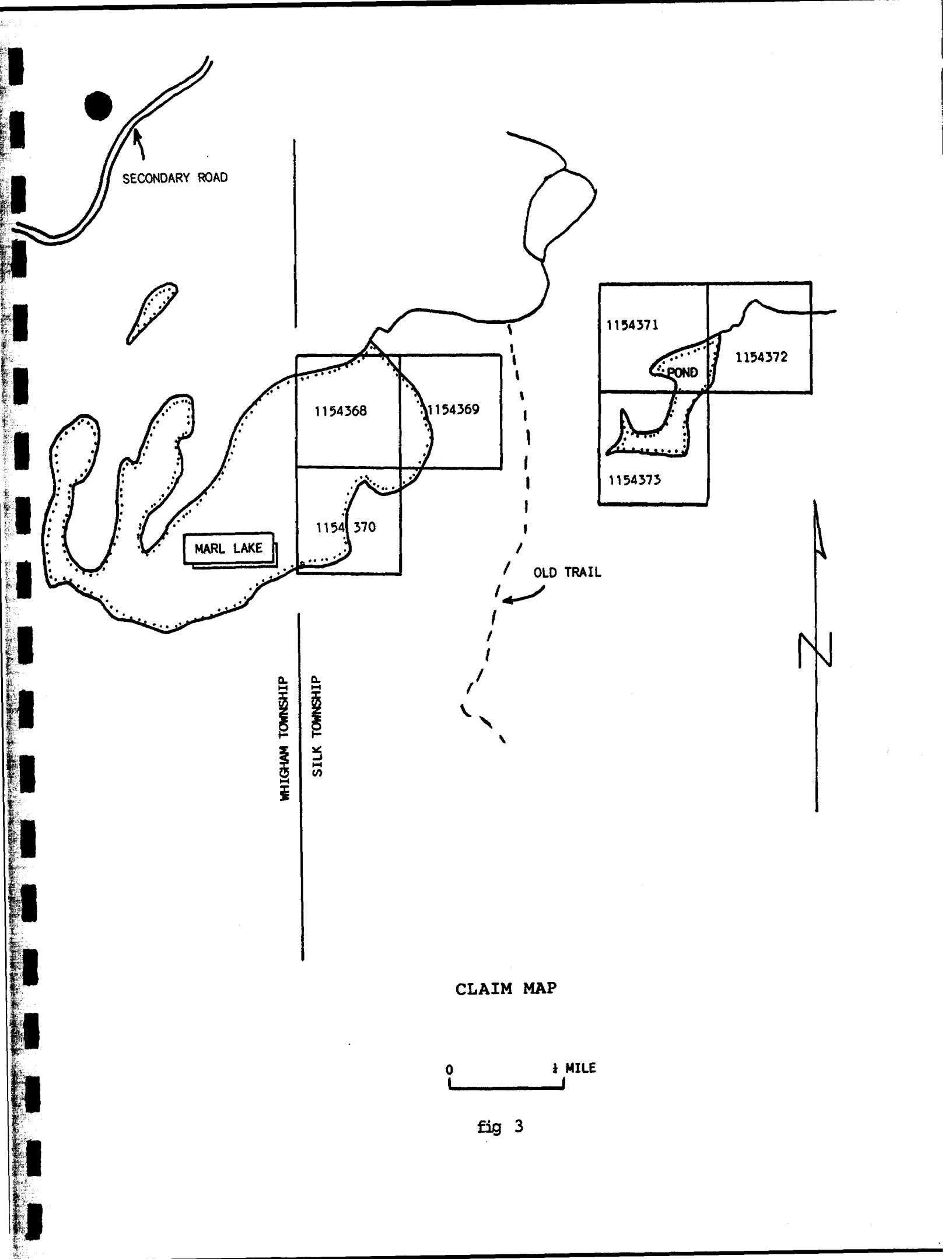
The location of the claims (as listed below) with respect to the lake is presented in figure 3.

<u>CLAIM NUMBERS</u>	<u>GROUP</u>	<u>RECORDING DATE</u>
1154368-370 (3)	Marl Lark	June 7, 1990
1154371-373 (3)	Pond	June 6, 1990
Total 6		

---

\* J.R. Mining Ventures, Consulting and Exploration Services, P.O. Box 2101, Timmins, Ontario.





CLAIM MAP

0 1/2 MILE

fig 3

#### 4. EXPLORATION PARAMETERS

While there are numerous environmental uses for calcitic rocks, the main potential market targeted for marl in north-central Ontario, and that which directed the exploration philosophy for the prospecting of lake sediments in this area, is that of acid neutralization of effluents from both mine tailings and pulp mills.

Additional potential uses would include the correction of fresh water pollution due to acid rain. This pollution is destroying the biological activity of many of the lakes and streams in northern Ontario however, for the moment, this application is at a research level. There are currently no markets as no definitive conclusions have yet been reached as to the effectiveness of the addition of carbonate to acidic lakes. A second and possibly more local market would be in sewage treatment plants in the greater Timmins industrial region. In this usage, marl could be used to absorb the soluble and insoluble organic substances and up to 95% of the phosphates in municipal sewage treatment plants. A third area which may become an extremely important market is that of a scrubber in coal fired electric generating plants. Because of recent drives by environmentalists to abate air pollution, a substantial market for finely crushed limestones is developing in North American in order to remove gaseous sulphur and nitrogen

oxides by various scrubbing systems. Because feed rocks must be finely ground to micro-sized particles (84% passing the 325 mesh) experimentation has shown lake marls are preferred over dense, highly crystalline limestones or dolomitic rocks. Marls, because of their softness and grain size are much more reactive than stones. Availability of product, however, appears to be the 'Key issue' for marketing of calcitic products as a scrubbing agent.

Currently, the most significant use of limestone in the environmental field is its use in the treatment of waste mine effluents, and to a lesser degree, liquid discharge from pulp mills. Limestone has been found to be the lowest cost acid neutralizer per unit of basicity as well as being the most widely available reagent. It does however, have many serious problems as a 'feed' rock, the main ones being i) the slow reaction rate of the stone, ii) the fact that limestone is only efficient in under neutralization of fluids, and the problem of waste, unreactive stone. Other reagents such as lime, slaked lime, caustic soda and magnesia are much more reactive, but also much more costly. Dolomitic lime possesses more basicity than its calcium counterpart, but is also much slower to react. An alternate product to all of the above is 'precipitated calcium carbonate' (PCC). PCC is extremely reactive due to the smaller particle size which results in a greater surface area. Marl can be considered as a naturally occurring form of PCC, hence the reason for this

program of sampling lake sediments in the search for marl deposits.

5. 1990 PROSPECTING PROGRAM

During the summer of 1990 a total of 60 lake bottom samples were taken from the near shore environment or along controlled lines run across Marl Lake.

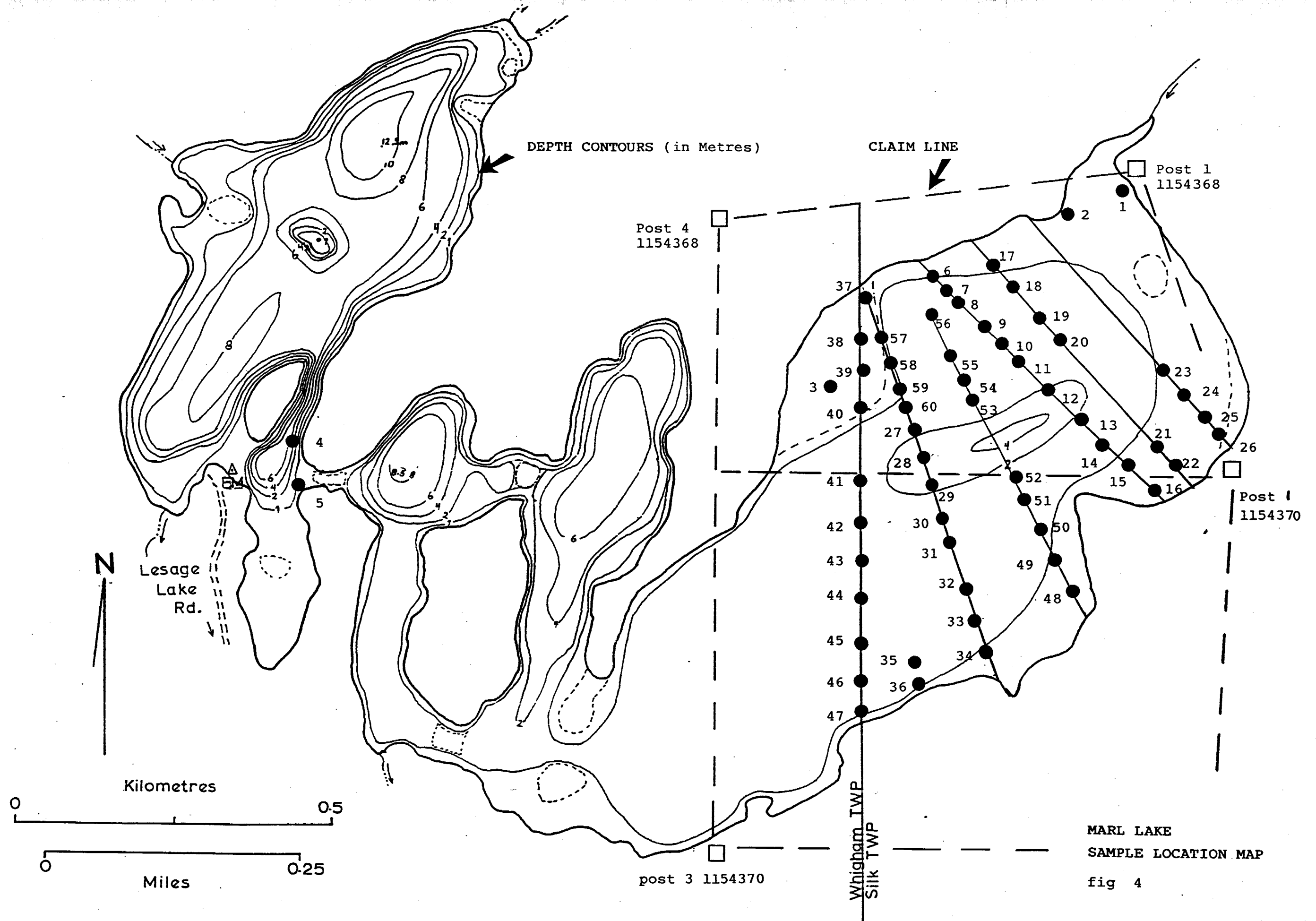
Much difficulty was encountered in developing a sampling device to enable the capturing of the very soft, water-filled muds from the bottom of the lake and the bringing of these muds to the surface. The 'GSC sampler\*', designed specifically for retrieval of sediments, was ineffective as the lake was too shallow for the 'bomb' to gather sufficient speed to drive itself into the ooze. A Hillier peat-sampler was considered to be suitable for this environment, however, the tool proved to be too expensive to purchase. Because of the difficulties in the effectiveness of the devices on the market, a sampling tool had to be constructed in the field and tested prior to collection of the lake sediments. The sampler constructed enabled the retrieval of the soft muds, however the sampling time was slow.

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\* Geological Survey of Canada lake sediment sampler.

Figure 4 illustrates the sample location numbers which correspond to those on the assay sheets in Appendix 2 of this report. The field work was performed over a period beginning on October 17 and ending October 26th, 1990. This exploration program was delayed until the fall by the Ministry of Natural Resources as an osprey nest was found by the Fish and Wildlife Department to be present along the north shore of the lake. This government department insisted that no exploration take place until the nesting period of the Osprey ended, estimated by fishery personnel to be by the end of August.

The marl retrieved by the sampling of the bottom of Marl Lake was, for the most, part non-descript. The soft sediment was grey to buff in colour, thus indicating that some organic material was present and extremely fine grained. A few samples taken had some organic matter on top and this was discarded prior to bagging of the sediment. The majority of the samples were uncontaminated, and appeared to be of higher carbonate content at depth, however, as only a maximum of 2 feet could be penetrated using the sampling device, further work would be necessary to determine the stratification of these recent sediments on the bottom of Marl Lake.



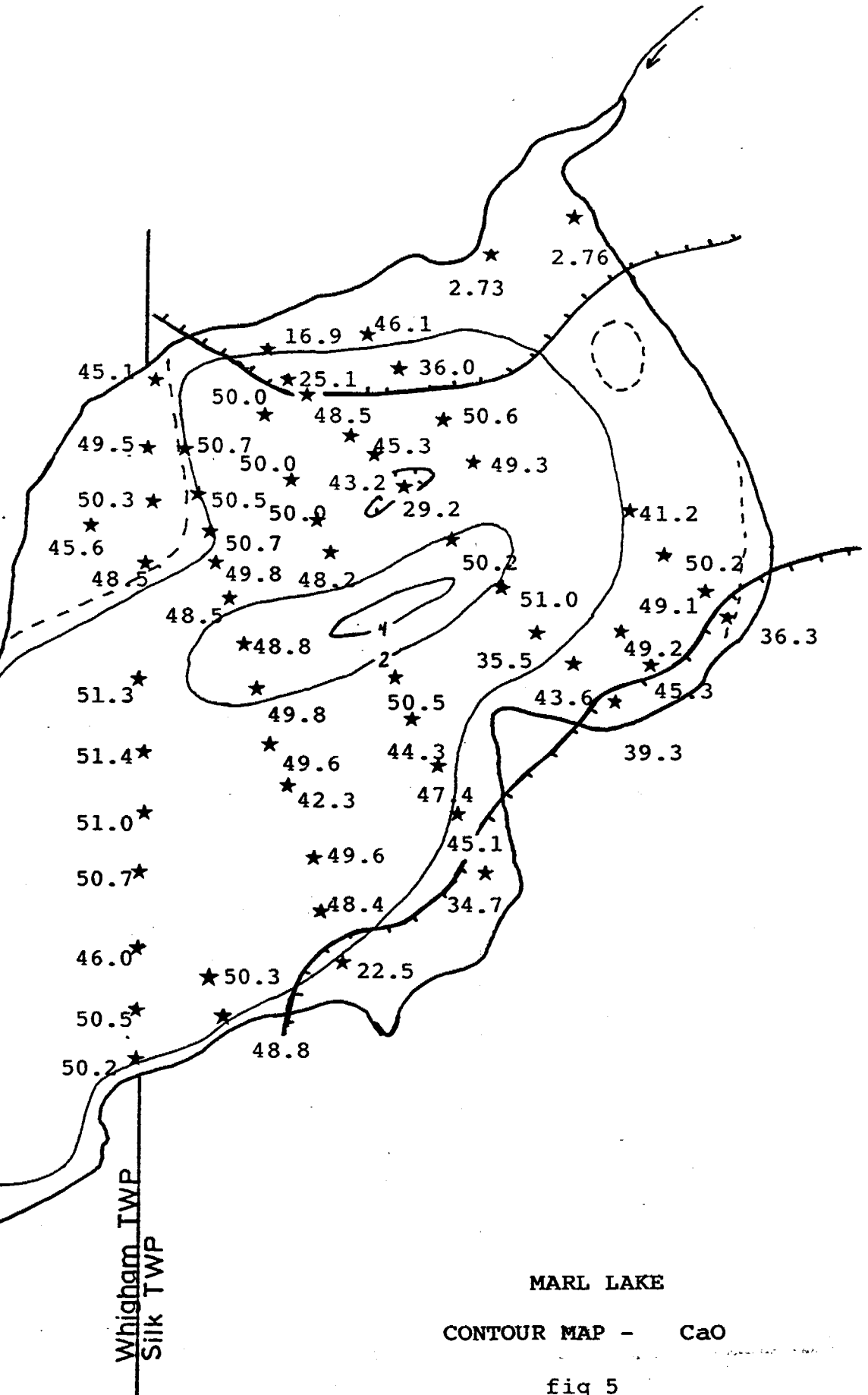
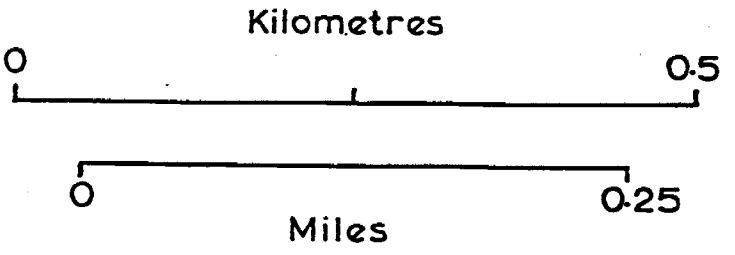
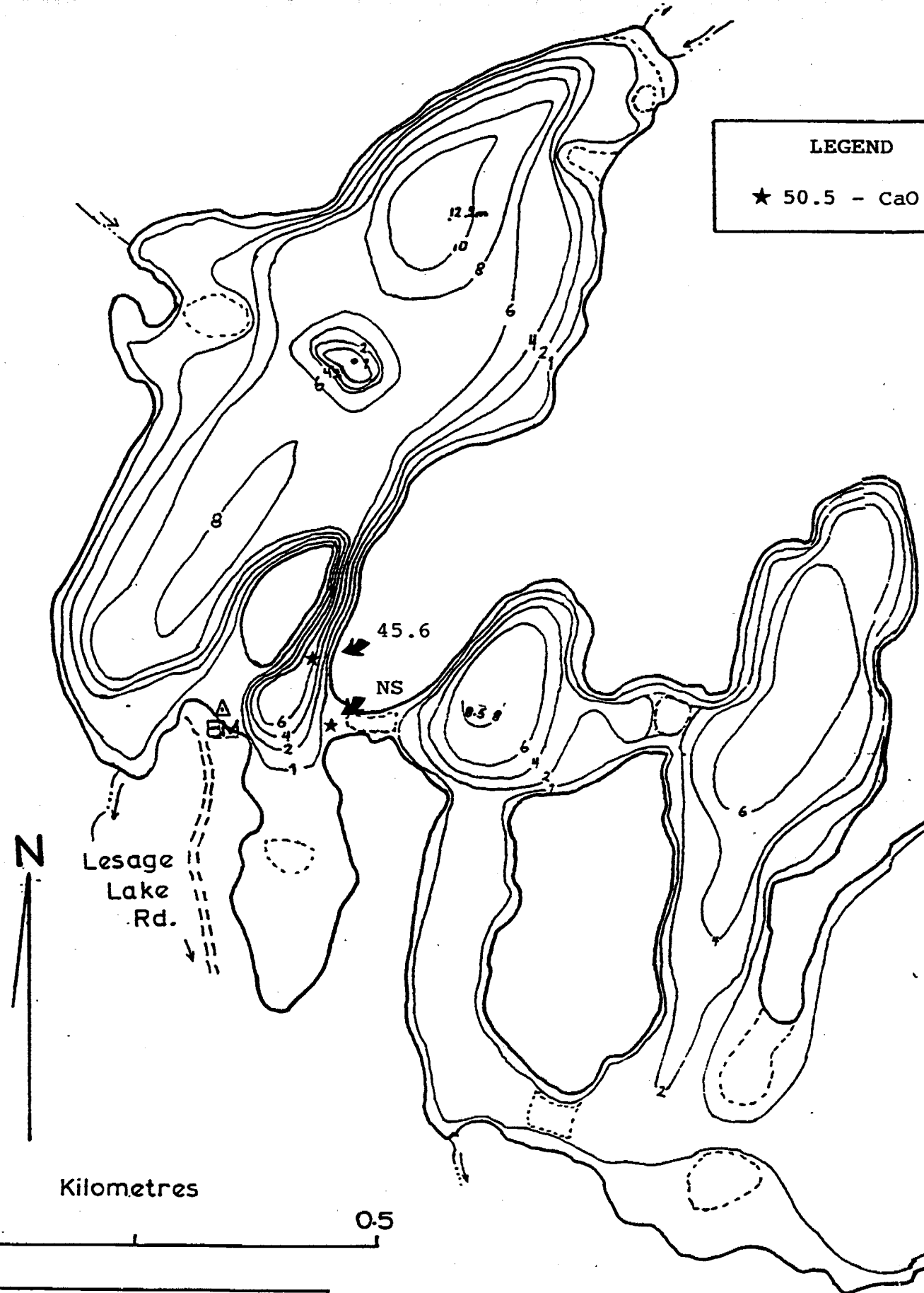
Because the sampling of marl was from a shallow depth, it is likely that part of the post ambrosia layer was sampled. Therefore, the Cu, Zn and Pb, values found in the geochemical analyses may reflect contamination via acid rain and smog from pollutants derived from the Kidd Creek smelter.

#### 6. RESULTS OF WORK

Analytical work was carried out by Barringer Laboratories, Mississauga, Ontario. The sediment samples were air dried in the field and analyzed at this commercial lab by the ICAP method (Inductively Coupled Argon Plasma).

Results of the portion of this lab work is plotted on figure 5 as percent CaO. With only one exception, extremely high CaO values were found in all samples away from the inlet of a small stream at the northeast corner of the lake and along the south shore. In these two areas (see contours, figure 5) the marl has a high silica content caused by the influx of silica sands carried by the stream onto the lake bottom and by soils washed into the lake along the shoreline. The magnesium content for all samples is quite low, averaging less than one percent. Given this fact, the analyses indicate that the marl is composed almost exclusively of finely precipitated calcium carbonate rather than dolomite. The iron

LEGEND  
 ★ 50.5 - CaO %



MARL LAKE  
 CONTOUR MAP - CaO  
 fig 5



content is also quite low, about one half per cent, as is the contained organic matter of most samples.

Only one sample outside of the influence of the stream inlet or along the shore returned a low CaO content. This sample (Marl 11) is silica rich (8.6% SiO<sub>2</sub>) and gave an assay of 29.2% CaO.

No attempt was made to determine the thickness of the marl layer as the instrumentation used to collect the samples prohibited the recovery of a core sample below a level of 2 feet. Where it was possible to measure the overlying organics, it was estimated that this layer could be up to 2 feet thick. Organic matter was noticed in only 20 of the samples taken.

X-Ray diffraction work was carried out on the acid insoluble components of the marl samples. A total of 6 samples were examined, all of which gave identical results indicating therefore, that the insoluble material has relatively uniform characteristics across the lake bottom. The results of this work are as follows:\*

---

\* Dr. A. Farkas, Consulting Petrographer and Geochemist.

The acid insoluble material was x-rayed using copper K-alpha radiation and 40 kv accelerating voltage. The scanning speed was 1 degree/minute. The sample preparation involved the dissolution of 1 to 4 grams of air dry marl in an excess of 10% HCL solution. After about 4 hours the solution was filtered and the filtrate was washed with distilled water. On the surface of some of the samples, fine frothy organic material formed after the acid dissolution of marl. This was removed from the surface of the solution. Despite this, one of the samples contained a fair amount of fine amorphous organic material. This increased the peak to background ratio and resulted in a poor XRD pattern.

The insoluble material consists of mostly fine silt-size particles. None of the samples appeared to contain significant amount of clay size particles.

A typical XRD pattern is presented below.

**SAMPLE MARL 48**

d A	I	
4.24	30	*
4.01	10	+
3.85	5	+
3.76	5	+
3.65	5	+
3.33	100	*
3.25	20	+
3.18	50	+
2.92	20	+
2.45	25	+
2.28	20	+
2.23	20	+
1.98	10	+
1.853	5	+
1.817	25	*
1.669	10	*
1.539	15	*

\* Quartz

+ Plagioclase (oligoclase).

The XRD results are tabulated below.

<u>SAMPLE NUMBER</u>	<u>MINERALOGY</u>	<u>NOTES</u>
MARL-16	Quartz + Plagioclase, 70%Q, 30%P	Fine silt size grains.
MARL-31	Quartz + Plagioclase, Ratio uncertain	Too much organic material.
MARL-40	Quartz + Plagioclase, 70%Q, 30%P	Fine silt, possibly clay.
MARL-48	Quartz + Plagioclase, 65%Q, 35%P	Fine silt size particles.
MARL-49 <sup>o</sup>	Quartz + Plagioclase, 60%Q, 40%P	Fine silt size particles.
MARL-54 <sup>o</sup>	Quartz + Plagioclase, 55%Q, 45%P	Fine silt, minor clay.

- 8.4 Å peak possibly due to hornblende.
- 10 Å and 3.3 Å peaks indicate illite. Illite is only a minor part (10-20%) of the total insoluble material.

Since the acid insoluble is primarily fine silt size quartz and plagioclase, some or perhaps a large part of it could be separated from the much finer grained calcium carbonate component of the marl by sieving or by sedimentation. In a typical marl, about 60% of the particles have less than 10 micron grainsize. Additional testing (sieving) by Barringer reaffirmed that the coarse fraction is higher in silica and alumina content and has low alkalies (calcium, magnesium). These tests indicate that the fine carbonate portion of the marl is extremely fine grained and devoid of both non-carbonate minerals as well as clays.

## 7. CONCLUSIONS AND RECOMMENDATIONS

Exploration of the fresh water sediments at the bottom of Marl Lake has resulted in the discovery of a layer of extremely rich, finely precipitated calcium-carbonate which, in composition, approaches that of a 'high-calcium source' rock.\*

The source of the carbonate is unknown but may possibly be due to the leaching of calcareous tills. No outcrops were observed surrounding the lake, however regional government geology maps suggest that the claims are underlain by granitic rocks and a thin layer of glacial tills.

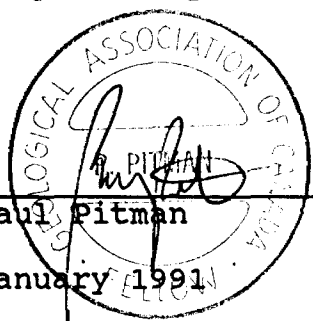
Further work is warranted to determine the thickness of the marl as well as to explore the east half of the lake in Whigham Township. If a sizeable deposit is outlined, further work would be proposed in order to determine the reactivity of the carbonate, its efficiency to precipitate iron in both the ferric and ferrous state, and the available basicity of the sediment.

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\* by definition: greater than 53.5% CaO and less than 5% MgO; ref: Boyton RS (1980): Chemistry and Technology of lime and limestone, J. Whaley & Sons, P.542.

The next stage of exploration should involve core sampling with a 'Hillier' type piston sampler from boat or during winter months when ice conditions are suitable.

Respectively submitted



Paul Pitman

January 1991

**Appendix 1**

**Budget - Statement of Expenditures**



**Fact Finders®**

DATA SEARCH  
PITMAN & ASSOCIATES

12th Floor, 20 Toronto Street  
Toronto, Ontario M5C 2B8

RECEIVED

17/58

MAY 06 1991

MINING LANDS SECTION

Re Silk Township  
File 2.13839

Mr Larry Stolicher  
Ministry of Northern Mines  
4th Floor, Assessment Office

Dear Larry,

Please find attached invoices from Barringer Laboratories  
which have been signed by a representative from Barringer showing  
that payment has been received.

Yours sincerely





# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

## I N V O I C E

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4  
Authority: A.Farkas  
Project:

Date : 20-Dec-90

Job : 901389

Invoice: 30215

PO #:

Terms:

60 Soil Sample Preparation 1.00 \$ 60.00

Analyses:

60 Lithoprint Package 23.00 \$1380.00

Sub Total: \$1440.00

TOTAL DUE: *SNA* \$1440.00

Totals not catagorized by department: ~~\$ 1440.00~~

*Rec'd Payment Jan 5/91*

*Dea [Signature]*

--- Accounting ---

*N*



5735 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 PHONE: (416) 890-8566  
 FAX: (416) 890-8575

I N V O I C E

Arpad Farkas  
 66 Pacific Ave  
 Apt#502  
 Toronto, Ontario  
 M6P 2P4  
 Authority: A.Farkas  
 Project:

Date : 20-Dec-90  
 Job : 901391  
 Invoice: 30217

PO #:

Terms:

Set: 1		
10 Soil samples sieved through a 200 mesh screen	9.00	\$ 90.00
Analyses:		
10 Lithoprint Package	23.00	\$ 230.00
Set: 2		
Analyses:		
20 Carbon-organic	9.50	\$ 190.00

TOTAL DUE: *509* \$ 510.00

Totals not catagorized by department: \$ ~~510.00~~

*Rec'd Payment Jan 3/9,*  
*Sean [Signature]*

--- Accounting ---

\$ 1440  
 + \$ 510  
 -----  
 \$ 1950

ARPAD FARKAS  
 66 PACIFIC AVE., APT. 502  
 TORONTO, ONT. M6P 2P4

INVESTMENT CHEQUING


344

December 31 1990

PAY TO THE ORDER OF Baringer Laboratories Ltd

\$1,950<sup>00</sup>/<sub>100</sub>

One thousand, nine hundred and fifty <sup>00</sup>/<sub>100</sub> DOLLARS


**Bank of Montreal**  
 BLOOR & BAY  
 55 BLOOR ST. WEST, MANULIFE CTR.  
 TORONTO, ONT. M4W 1A6

Arpad Farkas

⑈344⑈ ⑆03892⑆001⑆ 8062⑆198⑈



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

## INVOICE

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4  
Authority: A.Farkas  
Project:

Date : 25-Jan-91

Job : 911007

Invoice: 30303

PO #:

Terms: Net 30 days

### Analyses:

Lithoprint Package  
Carbon-total  
Carbon-organic  
Acid insoluble

1 Custom Package

200.00 \$ 200.00

Sub Total: \$ 200.00

Taxes: 7.00 \$ 14.00

TOTAL DUE: SAA \$ 214.00

~~Totals not categorized by department: \$ 200.00~~

*Rec'd Payment from 1/8/91*

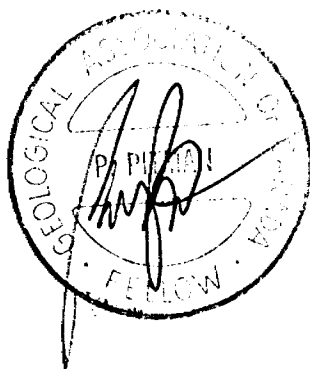
--- Accounting ---

*[Signature]*

*2*

SUMMARY OF EXPENDITURES

<u>CATEGORY</u>	<u>ACTUAL</u>	<u>BUDGET</u>
1. No. of field working days including report preparation x 100	835.00	-
2. Analysis/Assay costs, x-ray	2464.00	2900*
3. Equipment rental	246.80	1320
4. Contract Services (20 days @ \$150/day)	3000.00	-*
5. Travel	996.43	1530
6. Food and Accomodation	1002.33	1250
7. Other (typing, drafting of report)	322.00	-
	8866.56	10,000



\* Due to severe back injury in late June, 1990, which is still on-going, the work had to be contracted out.

**Appendix 2**

**Assay Certificates**



5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

19-Dec-90

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 18  
Copy: 2 of 2  
Set : 3

Attn: A.Farkas  
Project:

Received: 4-Dec-90 15:25

PO #:

Job: 901382

Status: Final

Abbreviations:

Parameters:

SiO2 : Silica  
Al2O3 : Alumina  
Fe2O3 : Ferric Oxide  
MgO : Magnesium Oxide  
CaO : Calcium Oxide  
Na2O : Sodium Monoxide  
K2O : Potassium Monoxide  
TiO2 : Titanium dioxide  
P2O5 : Phosphorus Pentoxide  
LOI : Loss on Ignition  
SUMOX : Sum of all major and minor oxides  
Ag : Silver  
Ba : Barium  
Cd : Cadmium  
Co : Cobalt  
Cr : Chromium  
Cu : Copper  
Mn : Manganese  
Ni : Nickel  
Pb : Lead  
Sr : Strontium  
V : Vanadium  
Zn : Zinc  
Zr : Zirconium

Methods:

ICAP : Inductively coupled argon plasma  
FURN : Furnace  
CALC : Calculation



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

19-Dec-90

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 16  
Copy: 2 of 2  
Set : 2

Attn: A.Farkas  
Project:

Received: 4-Dec-90 15:25

PO #:

Job: 901382

Status: Final

---

## Units:

% : percent  
ppm : parts per million

## Quality control:

< : Less than quoted detection limit  
NS : No sample





# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

19-Dec-90

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 19  
Copy: 2 of 2  
Set : 3

Attn: A.Farkas  
Project:

Received: 4-Dec-90 15:25

PO #:

Job: 901382

Status: Final

Units:

% : percent  
ppm : parts per million

Quality control:

< : Less than quoted detection limit

Signed:

.....*Margaret E. Dancziger*.....  
Margaret E. Dancziger  
Supervisor, Geochemistry/Fire Assay Services



5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

16-Jan-91

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 6  
Copy: 1 of 2  
Set : 2

Attn: A.Farkas  
Project:

Received: 17-Dec-90 13:47

PO #:

Job: 901391

Status: Final

Abbreviations:

Parameters:

C : Total Carbon

Methods:

ORG : Carbon-organic

Units:

% : percent

Signed:

*Margaret E. Danciger*  
.....  
Margaret E. Danciger  
Supervisor, Geochemistry/Fire Assay Services



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

19-Dec-90

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 7  
Copy: 2 of 2  
Set: 2

Attn: A.Farkas  
Project:

Received: 4-Dec-90 15:25

PO #:

Job: 901382

Status: Final

Sample	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %
MARL 1	76.1	11.0	1.80	0.93	2.76	3.17	2.14	0.432	0.16
MARL 2	77.4	10.7	1.67	0.80	2.73	3.09	2.04	0.322	0.14
MARL 3	5.35	0.82	0.31	0.83	45.6	0.22	0.17	0.027	<0.02
MARL 4	2.06	0.36	0.26	0.49	45.6	0.07	0.06	0.013	<0.02
MARL 5	NS	NS	NS	NS	NS	NS	NS	NS	NS
MARL 6	51.9	7.14	0.84	0.63	16.9	2.10	1.37	0.143	0.14
MARL 7	32.7	4.78	0.71	1.12	25.1	1.31	0.90	0.120	0.09
MARL 8	1.28	0.25	0.35	0.64	48.5	0.04	0.05	0.012	<0.02
MARL 9	2.59	0.33	0.42	0.64	45.3	0.04	0.04	0.013	0.07
MARL 10	5.90	0.46	0.33	0.61	43.2	0.09	0.07	0.015	0.07
MARL 11	8.60	0.64	0.51	0.45	29.2	0.11	0.12	0.026	0.16
MARL 12	0.57	0.12	0.17	0.70	50.2	0.04	0.04	0.004	<0.02
MARL 13	0.39	0.08	0.20	0.70	51.0	0.04	<0.20	0.004	<0.02
MARL 14	11.5	1.14	0.37	0.67	35.5	0.32	0.25	0.039	0.14
MARL 15	7.19	1.07	0.49	0.79	43.6	0.30	0.24	0.037	<0.02
MARL 16	14.6	2.10	0.47	1.15	39.3	0.58	0.47	0.068	<0.02
MARL 17	5.50	0.87	0.32	0.90	46.1	0.26	0.19	0.026	<0.02
MARL 18	6.35	0.56	0.56	0.53	36.0	0.18	0.12	0.021	0.09
MARL 19	0.78	0.15	0.24	0.65	50.6	0.07	0.06	0.007	<0.02
MARL 20A	1.00	0.17	0.26	0.64	49.3	0.08	0.06	0.007	<0.02
MARL 20B	5.24	0.36	0.32	0.59	40.8	0.08	0.06	0.014	0.11
MARL 21	4.41	0.66	0.33	1.32	49.2	0.19	0.18	0.026	<0.02
MARL 22	9.63	1.47	0.40	1.25	45.3	0.40	0.30	0.051	<0.02
MARL 23	9.01	1.02	0.47	0.77	41.2	0.23	0.14	0.039	<0.02
MARL 24	3.36	0.53	0.26	1.12	50.2	0.16	0.14	0.021	<0.02
MARL 25	6.12	0.92	0.33	1.41	49.1	0.27	0.24	0.038	<0.02
MARL 26	20.0	2.87	0.76	1.72	36.3	0.78	0.55	0.099	<0.02



# BARRINGER LABORATORIES

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19-Dec-90

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Sample	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %
MARL 27	1.06	0.18	0.24	0.65	48.5	<0.02	<0.02	0.007	<0.02
MARL 28	1.50	0.26	0.24	0.82	48.8	0.07	0.04	0.010	<0.02
MARL 29	0.75	0.13	0.24	0.86	49.8	<0.02	<0.02	0.005	<0.02
MARL 30	0.65	0.13	0.23	0.81	49.6	<0.02	<0.02	0.007	<0.02
MARL 31	3.44	0.22	0.31	0.63	42.3	0.04	<0.02	0.008	0.07
MARL 32	0.91	0.17	0.24	0.87	49.6	0.05	0.05	0.007	<0.02
MARL 33	2.61	0.45	0.22	0.88	48.4	0.13	0.07	0.012	<0.02
MARL 34	39.5	5.59	0.78	1.14	22.5	1.59	1.04	0.114	0.14
MARL 35	0.55	0.12	0.26	0.91	50.3	0.05	0.05	0.005	<0.02
MARL 36	0.46	0.12	0.24	0.86	48.8	<0.02	<0.02	0.005	<0.02
MARL 37	4.77	0.77	0.38	0.85	45.1	0.22	0.16	0.023	<0.02
MARL 38	1.41	0.24	0.25	0.88	49.5	0.09	0.07	0.010	<0.02
MARL 39	0.75	0.14	0.22	0.83	50.3	0.07	0.06	0.006	<0.02
MARL 40	2.74	0.48	<0.01	0.97	48.5	0.11	0.07	0.020	<0.02
MARL 41	0.75	0.16	0.29	0.84	51.3	0.07	0.06	0.007	<0.02
MARL 42	0.63	0.15	0.30	0.79	51.4	0.05	0.04	0.007	<0.02
MARL 43	0.77	0.14	0.24	0.61	51.0	0.05	0.04	0.006	<0.02
MARL 44	1.49	0.12	0.22	0.61	50.7	0.05	<0.02	0.005	<0.02
MARL 45	2.00	0.20	0.37	0.55	46.0	<0.02	<0.02	0.009	<0.02
MARL 46	0.29	0.07	0.20	0.86	50.5	<0.02	<0.02	0.003	<0.02
MARL 47	0.27	0.07	0.21	0.88	50.2	0.05	0.05	0.003	<0.02
MARL 48	23.9	3.48	0.67	1.45	34.7	0.96	0.61	0.102	0.11
MARL 49	5.18	0.80	1.29	0.92	45.1	0.26	0.18	0.024	<0.02
MARL 50	5.11	0.80	0.40	1.04	47.4	0.24	0.17	0.028	<0.02
MARL 51	2.78	0.48	0.44	0.77	44.3	0.11	0.06	0.020	<0.02
MARL 52	1.57	0.26	0.33	0.94	50.5	0.11	0.12	0.010	<0.02
MARL 53	1.69	0.30	0.43	0.70	48.2	0.09	0.10	0.014	<0.02



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Sample	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %
MARL 54	1.72	0.28	0.23	0.96	50.0	0.08	0.05	0.011	<0.02
MARL 55	0.70	0.13	0.23	0.70	50.0	<0.02	<0.02	0.006	<0.02
MARL 56	1.36	0.23	0.23	0.89	50.0	0.07	0.04	0.009	<0.02
MARL 57	1.22	0.21	0.24	0.87	50.7	0.08	0.08	0.009	<0.02
MARL 58	0.81	0.17	0.30	0.74	50.5	<0.02	<0.02	0.007	<0.02
MARL 59	0.57	0.11	0.22	0.71	50.7	<0.02	<0.02	0.005	<0.02
MARL 60	1.06	0.20	0.20	0.73	49.8	0.04	<0.02	0.009	<0.02

Sample	LOI FURN %	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm
MARL 1	1.35	99.98	<3	512	6	<30	68	<5	370	<30	110	364
MARL 2	1.95	100.9	<3	495	<5	<30	59	<5	313	<30	130	353
MARL 3	45.0	98.35	<3	123	<5	<30	<5	6	547	30	<30	177
MARL 4	48.5	97.48	<3	53	<5	<30	<5	10	285	30	<30	104
MARL 5	NS	nan	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MARL 6	16.0	97.31	<3	345	13	<30	28	<5	293	30	40	270
MARL 7	31.0	97.99	<3	259	11	<30	20	8	346	<30	<30	243
MARL 8	47.0	98.19	<3	71	<5	<30	<5	7	488	<30	<30	122
MARL 9	49.2	98.66	<3	72	<5	<30	<5	10	350	<30	<30	138
MARL 10	48.2	98.99	<3	81	<5	<30	<5	10	192	30	30	152
MARL 11	58.4	98.26	<3	68	<5	<30	8	11	162	30	60	110
MARL 12	46.6	98.48	<3	79	<5	<30	<5	8	328	<30	<30	152
MARL 13	45.7	98.45	<3	81	<5	<30	<5	7	416	<30	<30	140
MARL 14	48.1	98.21	<3	111	8	<30	13	9	132	40	60	161
MARL 15	44.9	98.72	<3	108	11	<30	<5	9	310	30	30	144
MARL 16	40.0	98.86	<3	178	12	<30	15	9	323	40	30	214



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Sample	LOI FURN %	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm
MARL 17	43.7	97.95	<3	125	8	<30	<5	22	444	30	50	192
MARL 18	51.9	96.45	<3	69	11	<30	18	25	187	30	40	120
MARL 19	46.3	98.97	<3	78	<5	<30	<5	22	421	<30	<30	139
MARL 20A	46.4	98.02	<3	73	<5	<30	7	10	512	30	<30	130
MARL 20B	50.6	98.28	<3	74	<5	<30	7	13	280	<30	30	150
MARL 21	42.8	99.23	<3	149	<5	<30	<5	17	410	<30	30	306
MARL 22	40.7	99.55	<3	162	<5	<30	<5	13	384	<30	30	240
MARL 23	44.9	97.87	<3	113	<5	<30	8	22	299	<30	30	180
MARL 24	43.6	99.49	<3	137	<5	<30	<5	21	436	<30	<30	257
MARL 25	42.2	100.6	<3	143	<5	<30	<5	19	398	30	<30	269
MARL 26	34.6	97.87	<3	211	<5	<30	19	21	362	30	<30	288
MARL 27	46.6	97.39	<3	76	<5	<30	<5	15	636	<30	<30	135
MARL 28	44.5	96.27	<3	112	<5	<30	<5	15	419	<30	<30	201
MARL 29	45.1	97.00	<3	82	<5	<30	<5	15	448	<30	<30	149
MARL 30	46.2	97.75	12	81	<5	<30	<5	8	470	<30	<30	147
MARL 31	49.5	96.68	<3	67	<5	<30	9	19	248	30	<30	139
MARL 32	46.0	98.03	<3	87	<5	<30	<5	15	412	<30	<30	148
MARL 33	44.9	97.75	<3	100	<5	<30	<5	15	390	30	<30	162
MARL 34	25.0	97.53	<3	289	8	<30	22	22	231	40	30	244
MARL 35	43.2	95.58	<3	85	6	<30	<5	15	419	<30	<30	147
MARL 36	47.3	97.92	<3	86	<5	<30	<5	15	434	<30	<30	139
MARL 37	45.0	97.37	<3	121	<5	<30	<5	16	492	30	<30	167
MARL 38	44.9	97.41	<3	124	<5	<30	<5	15	503	<30	<30	211
MARL 39	44.7	97.21	<3	118	<5	<30	<5	24	426	<30	<30	202
MARL 40	44.8	97.81	5	102	<5	<30	<5	6	561	<30	<30	163
MARL 41	45.7	99.29	<3	87	<5	<30	6	18	528	<30	50	149
MARL 42	45.4	98.86	<3	82	<5	<30	<5	40	513	30	80	140



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Sample	LOI FURN %	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm
MARL 43	46.7	99.64	<3	78	<5	<30	<5	23	426	<30	70	136
MARL 44	45.9	99.28	<3	71	<5	<30	<5	16	380	30	120	130
MARL 45	49.1	98.32	5	62	<5	<30	11	10	339	<30	<30	121
MARL 46	45.9	97.94	<3	84	<5	<30	<5	15	543	<30	30	148
MARL 47	46.1	97.92	<3	82	<5	<30	<5	19	592	<30	<30	145
MARL 48	34.2	100.2	<3	232	5	<30	21	16	272	50	110	247
MARL 49	42.2	96.11	<3	113	<5	<30	<5	30	322	30	<30	164
MARL 50	43.4	98.69	<3	120	<5	<30	<5	74	448	30	40	207
MARL 51	47.4	96.47	<3	86	<5	<30	<5	21	426	30	50	148
MARL 52	44.5	98.41	<3	133	<5	<30	<5	17	411	<30	<30	254
MARL 53	47.5	99.15	<3	84	<5	<30	<5	17	548	30	40	150
MARL 54	44.5	97.94	<3	133	8	<30	<5	13	516	<30	80	264
MARL 55	46.7	98.66	<3	89	<5	<30	<5	13	543	30	<30	156
MARL 56	45.1	98.03	<3	128	<5	<30	<5	12	598	<30	<30	244
MARL 57	45.0	98.56	<3	122	<5	<30	<5	11	548	<30	<30	228
MARL 58	46.4	99.05	<3	90	<5	<30	<5	13	668	<30	<30	156
MARL 59	46.3	98.81	<3	83	6	<30	<5	96	647	<30	30	145
MARL 60	46.8	98.89	<3	82	<5	<30	<5	233	430	<30	50	163

Sample	V ICAP ppm	Zn ICAP ppm	Zr ICAP ppm
MARL 1	30	62	650
MARL 2	23	62	320
MARL 3	7	40	40
MARL 4	12	38	20
MARL 5	NS	NS	NS



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Sample	V ICAP ppm	Zn ICAP ppm	Zr ICAP ppm
MARL 6	15	52	150
MARL 7	17	50	90
MARL 8	11	36	20
MARL 9	15	38	20
MARL 10	16	24	20
MARL 11	18	39	20
MARL 12	8	5	20
MARL 13	7	5	20
MARL 14	16	54	40
MARL 15	14	28	40
MARL 16	12	24	60
MARL 17	9	30	40
MARL 18	21	60	30
MARL 19	7	24	20
MARL 20A	10	11	20
MARL 20B	17	27	20
MARL 21	7	18	30
MARL 22	7	12	50
MARL 23	9	16	40
MARL 24	<5	5	30
MARL 25	7	5	40
MARL 26	12	18	90
MARL 27	<5	5	20
MARL 28	<5	5	20
MARL 29	<5	5	20
MARL 30	6	18	20
MARL 31	13	44	20





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Sample	V	Zn	Zr
	ICAP ppm	ICAP ppm	ICAP ppm
MARL 32	6	18	20
MARL 33	<5	5	20
MARL 34	<5	64	100
MARL 35	<5	24	20
MARL 36	<5	5	20
MARL 37	6	5	40
MARL 38	6	5	20
MARL 39	7	5	20
MARL 40	7	19	30
MARL 41	7	5	30
MARL 42	10	5	30
MARL 43	9	5	20
MARL 44	9	5	20
MARL 45	13	28	20
MARL 46	7	16	20
MARL 47	7	5	20
MARL 48	11	26	100
MARL 49	9	5	40
MARL 50	9	5	40
MARL 51	11	14	30
MARL 52	8	5	30
MARL 53	14	32	30
MARL 54	<5	5	30
MARL 55	<5	5	20
MARL 56	<5	5	20
MARL 57	<5	5	20
MARL 58	<5	5	20



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Sample	V	Zn	Zr
	ICAP ppm	ICAP ppm	ICAP ppm
MARL 59	6	5	20
MARL 60	5	181	20



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Sample	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %	LOI FURN %
MARL 30	0.65	0.13	0.23	0.81	49.6	<0.02	<0.02	0.007	<0.02	46.2
MARL 40	2.74	0.48	<0.01	0.97	48.5	0.11	0.07	0.020	<0.02	44.8
MARL 45	2.00	0.20	0.37	0.55	46.0	<0.02	<0.02	0.009	<0.02	49.1

Sample	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm	V ICAP ppm
MARL 30	97.75	12	81	<5	<30	<5	8	470	<30	<30	147	6
MARL 40	97.81	5	102	<5	<30	<5	6	561	<30	<30	163	7
MARL 45	98.32	5	62	<5	<30	11	10	339	<30	<30	121	13

Sample	Zn ICAP ppm	Zr ICAP ppm
MARL 30	18	20
MARL 40	19	30
MARL 45	28	20



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Sample	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %	LOI FURN %
MARL 3	32.5	5.85	2.17	1.77	19.7	1.40	0.72	0.156	0.09	35.6
MARL 6	54.5	7.43	0.90	0.55	11.9	2.18	1.36	0.167	0.11	21.6
MARL 7	62.9	8.76	0.96	0.64	5.98	2.55	1.64	0.118	0.09	17.2
MARL 17	24.3	3.80	0.60	0.68	29.0	1.00	0.67	0.052	0.09	40.3
MARL 26	47.1	6.46	0.86	0.89	18.6	1.85	1.24	0.103	0.11	23.5
MARL 34	62.4	8.96	0.91	0.71	6.27	2.58	1.74	0.120	0.11	16.8
MARL 37	19.6	3.44	0.59	0.69	26.3	0.78	0.57	0.056	0.07	46.4
MARL 48	31.0	4.67	0.78	1.06	26.7	1.24	0.91	0.090	0.07	34.1
MARL 49	15.3	2.57	0.86	0.76	35.6	0.62	0.45	0.039	0.02	42.5
MARL 50	7.65	1.91	0.45	0.79	39.7	0.32	0.24	0.031	0.02	47.2

Sample	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm	V ICAP ppm
MARL 3	100.0	<3	212	10	<30	89	15	475	50	50	183	46
MARL 6	100.7	<3	355	12	<30	33	6	257	40	130	263	13
MARL 7	100.8	<3	418	8	<30	32	<5	194	30	140	294	13
MARL 17	100.6	<3	205	10	<30	18	7	327	30	50	197	10
MARL 26	100.8	<3	338	14	<30	29	7	249	30	70	280	12
MARL 34	100.7	<3	437	12	<30	33	7	179	30	130	304	10
MARL 37	98.55	<3	185	7	<30	20	8	404	<30	30	180	11
MARL 48	100.7	4	272	6	<30	29	8	274	30	50	239	12
MARL 49	98.84	<3	176	<5	<30	15	9	320	<30	<30	192	10
MARL 50	98.38	4	124	<5	<30	12	8	358	<30	<30	178	10

all samples = +200 mesh



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

16-Jan-91

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 2  
Copy: 1 of 2  
Set : 1

Attn: A. Farkas  
Project:

Received: 17-Dec-90 13:47

PO #:

Job: 901391

Status: Final

Sample	Zn	Zr
	ICAP ppm	ICAP ppm
MARL 3	75	50
MARL 6	53	140
MARL 7	51	70
MARL 17	85	40
MARL 26	66	50
MARL 34	64	70
MARL 37	193	50
MARL 48	69	50
MARL 49	135	30
MARL 50	242	40

*all samples = +200 mesh*



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

16-Jan-91

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4

Page: 5  
Copy: 1 of 2  
Set : 2

Attn: A. Farkas  
Project:

Received: 17-Dec-90 13:47

PO #:

Job: 901391

Status: Final

Sample	C ORG %
MARL 3	3.74
MARL 6	2.85
MARL 7	5.32
MARL 14	9.96
MARL 15	5.19
MARL 16	3.97
MARL 17	3.18
MARL 24	1.52
MARL 25	1.54
MARL 26	1.83
MARL 31	5.95
MARL 34	3.92
MARL 37	3.93
MARL 38	1.97
MARL 42	2.48
MARL 48	3.44
MARL 49	3.11
MARL 50	2.45
MARL 51	5.21
MARL 55	3.04

*all samples = +200 mesh*

25-Jan-91

Arpad Farkas  
 66 Pacific Ave  
 Apt#502  
 Toronto, Ontario  
 M6P 2P4

Pages: 1  
 Copy: 1 of 1  
 Set: 1

Attn: A.Farkas  
 Project:

Received: 21-Jan-91 15:13

PO #:

Job: 911007

Status: Preliminary

Sample Id	SiO2 ICAP %	Al2O3 ICAP %	Fe2O3 ICAP %	MgO ICAP %	CaO ICAP %	Na2O ICAP %		
MARL 27 to 60 (Composite)	2.35	0.39	0.30	0.89	49.5	0.20		
Sample Id	K2O ICAP %	TiO2 ICAP %	P2O5 ICAP %	LOI FURN %	SUMOX CALC %	Ag ICAP ppm	Ba ICAP ppm	
MARL 27 to 60 (Composite)	0.12	0.013	<0.02	45.4	99.27	<3	98	
Sample Id	Cd ICAP ppm	Co ICAP ppm	Cr ICAP ppm	Cu ICAP ppm	Mn ICAP ppm	Ni ICAP ppm	Pb ICAP ppm	Sr ICAP ppm
MARL 27 to 60 (Composite)	<5	<30	5	7	447	<30	<30	176
Sample Id	V ICAP ppm	Zn ICAP ppm	Zr ICAP ppm	C LECO %	C ORG ORG %	INSOL %	C-INSOL %	
MARL 27 to 60 (Composite)	<5	6	20	12.2	2.87	3.07	1.01	

**Appendix 3**

**Supporting Documents**

- **Application for OPAP Grant**
- **Statement of Ministry Approval  
- Grant OP-394**
- **Certificate of Initial Grant Approval**
- **Work Permit**





# ONTARIO PROSPECTORS ASSISTANCE PROGRAM (OPAP) APPLICATION FOR FUNDING

## INSTRUCTIONS:

Please type or Print  
Submit completed form to:  
Incentives Office  
Ministry of Northern Development & Mines  
3rd Floor, 880 Bay St., Toronto, Ontario M5S 1Z8

Date of Application April 4, 1990

Last Name PITMAN First Name(s) PAUL

Address 51 Isabella Street

City Brampton Province Ontario Postal Code L6X1P8

Telephone ( 416 ) 451-5057 Contact Telephone ( 416 ) 362-5326

Ontario Prospectors Licence No. \_\_\_\_\_ Occupation Consulting Geologist

Briefly State Your Prospecting or Related Experience and Training (No. of Years and Type):

18 years of field management and project research in mineral exploration.

References:	<u>Eric Craigie, Senior Geologist BP Canada Inc. (416) 361-0794</u>
	<u>Name Telephone Relationship</u>
	<u>James Stewart, Chief Geologist Corona Corp. (416) 862-2000</u>
	<u>Name Telephone Relationship</u>

Ministry Reference (if known), Name \_\_\_\_\_

Past Performance (List No. of Properties Optioned, Locations, Optionee, Year  
About one dozen properties optioned, one example given below.  
Nerepis Tungsten/Tin Prospect, optioned by Mr. K. Whaley, 1980. Property location: N.B.

Previous OPAP Application Yes  No  File No. \_\_\_\_\_

Describe Your Prospecting Project - attach separate sheets (See guideline for details)  
Silk Township marl prospecting . Marl for environmental application.

Start Date of Project June, 1990 Proposed Number of Working Days By Applicant 30

List of Other Co-Owners of the Property that are Applying for Assistance for This Project  
None

Proposed Project Area(s) (Twp. or Claim Map Name and Resident Geologist's Area)  
Silk Township. The resident geologist's area is Chapleau or Timmins

# APPLICATION FOR FUNDING

## PROPOSED BUDGET

1. No. of Working Days By Applicant Including Report Preparation x \$100/day ..... 30 days.....	\$ 3,000
2. Analyses/Assay Costs ..... whole rock, TOC, insoluble, XRD	\$ 2,900
3. Equipment Rentals/Supplies .....	\$ 1,320
4. Contract Services (State Type) N/A.....	\$
5. Travel (state method: road, air, etc.) ... car.....	\$ 1,530
6. Food and Accommodation .....	\$ 1,250
7. Other Expenses (Specify) ..... None.....	\$
<b>TOTAL EXPENDITURES .....</b>	<b>\$ 10,000</b>
Grant Requested (\$10,000 maximum) .....	\$ 10,000

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

1. I am the person named in the Application for Grant under the Ontario Prospectors Assistance Program.
2. I have complied with all the requirements of the said program.
3. I understand that it is an offence under the Ontario Mineral Exploration Act, 1989, to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
4. I am not actively engaged in mineral production anywhere in the world, nor am I a representative of a person who is actively engaged in mineral production anywhere in the world.
5. I am not an associate of, nor do I represent an affiliated corporation or an associate of any person actively engaged in mineral production anywhere in the world.
6. The mineral exploration project that is the subject of the said application will not receive Federal Government or other Ontario Government financial assistance.

**It is an Offence under subsection 8(1)(A) of the Ontario Mineral Exploration Act, 1989 to knowingly furnish false or misleading information.**

Signature of Applicant \_\_\_\_\_ Date april 14, 1990

Name (print) Paul Pitman

### Office Use Only:

References Checked  
Ministry Reference Verified

Personal information collected on this form is obtained under the authority of the Ontario Mineral Exploration Act, 1989, sections 2, 3 and 4 and the Ontario Prospectors Assistance Program Regulation, subsections 3(2) to 3(10) inclusive and section 5. It will be used for the purpose of determining the eligibility of the applicant to have a program designated for financial assistance. It

may be disclosed for this purpose and I consent to its disclosure for such a purpose. Questions about this collection should be directed to Supervisor, Incentives Office, Mineral Development and Lands Branch, Ministry of Northern Development and Mines, 3rd Floor, 880 Bay Street, Toronto, Ontario M5S 1Z8, telephone (416) 965-1062.



Office of the  
Minister  
of Mines

Bureau du  
Ministre  
des Mines

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

May 31, 1990

Mr. Paul Pitman  
51 Isabella St.  
Brampton, Ontario  
L6X 1P8

(416) 965-6424

FILE No. OP90-394

101 Bloor Street West  
13th Floor  
Toronto, Ontario  
M4Y 1G2  
(416) 965-6424

101 rue Bloor ouest  
13<sup>e</sup> étage  
Toronto (Ontario)  
M4Y 1G2  
(416) 965-6424

Re: OPAP Application For Funding

Dear Mr. Pitman:

I am pleased to inform you that your recent application for financial assistance under the Ontario Prospectors Assistance Programme (OPAP) has been reviewed and approved in the amount of [REDACTED]. Please quote file number OP90-394 in any future correspondence with the Incentives Office of the Mineral Development & Lands Branch.

A cheque for half of this amount \$5,000.00, in accordance with the regulations, will be forwarded to you directly. The balance of your OPAP grant will follow when your technical reports have been submitted to the ministry and approved.

I am pleased that prospectors such as yourself have reacted enthusiastically to this programme which is now in its second successful year.

I wish you well with your field work and share your hope that a promising discovery will result. I shall be following closely the results of this programme and I would encourage you to contact the Incentives Office with any comments you have for improving OPAP in its aim of fostering an active and successful prospecting industry in Ontario.

Yours sincerely,

Hugh P. O'Neil  
Minister



Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

The Ontario Prospectors Assistance Program

Programme d'aide aux prospecteurs de l'Ontario

# Certificate of Initial Grant Approval

# Certificat d'allocation d'une subvention initiale

Grant No./Subvention N°

OPG90-268

OPAP Registration No./N° d'enregistrement au P

OP90-394

Applicant - Name/Nom du demandeur

PAUL PITMAN

Street Name and Number/Adresse (rue et numéro)

51 ISABELLA STREET

City, Town, Village/Localité

BRAMPTON

Province

ONTARIO

Postal Code/Code postal

L6X 1P8

Period of designation is from

Year année	Month mois	Day jour	to au	Year année	Month mois	Day jour
90	04	04		91	01	31

L'agrément porte sur la période du

Total proposed eligible exploration expenses to be incurred in Ontario that have been approved

\$ 10,000.00

Montant total des dépenses d'exploration admissibles projetées (devant être effectuées en Ontario) approuvées par le présent certificat

This is to certify that an initial grant of 50% based on the above proposed eligible expenses is payable to the Applicant or Applicants (details attached) and that this payment of

\$ 5,000.00

Le présent certificat atteste qu'une subvention égale à 50% du montant des dépenses admissibles projetées (indiqué ci-dessus) est payable au(x) demandeur(s) (détails ci-joint), et que le paiement de la somme de

is hereby approved.

est approuvé.

Manager, Mineral Development Section/Directeur, Section du développement minéralogique

Date

May 31/90

Original - Applicant/demandeur

Part 2 - Financial Services Branch  
Partie 2 - Direction des services financiers

Part 3 - File  
Partie 3 - Archives



This permit is issued under the authority and provisions of the following indicated Provincial Acts and their regulations, and is subject to the limitations and provisions thereof and is also subject to the terms and conditions herein.

- Forest Fires Prevention Act
- Lakes and Rivers Improvement Act
- Public Lands Act as amended

**Note:** The issuance of this permit does not relieve the applicant from the responsibility of acquiring any other agency, board, government, etc., approval as may be required nor does it relieve the permittee from the requirements of any legislation.

This Permit is issued to:

Name of Permittee	Paul W. Pitman
Post Office Address	20 Toronto Street, STE. 1270
	Toronto, Ontario M5C 2B8

To conduct an operation from the 27 day of August, 19 90 to and including the 28 day of September, 19 90 on the following work permit area:  
Whigham, Silk Townships as shown on attached map

As per your application dated: July 31, 1990

For the purpose of: Mineral Exploration, Work on Shorelands, and Work on a Waterbody

Subject to the following conditions:

1. The Permittee shall keep this permit or a true copy thereof on the work permit area.
2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the work permit area to any officer whenever requested by the officer.
3. Other conditions as listed on the reverse side of this permit as well as those contained in Schedule(s) \_\_\_\_\_ A, D \_\_\_\_\_ attached.

Place of Issue	Date	Signature of Issuing Officer
Chapleau District	August 24, 1990	

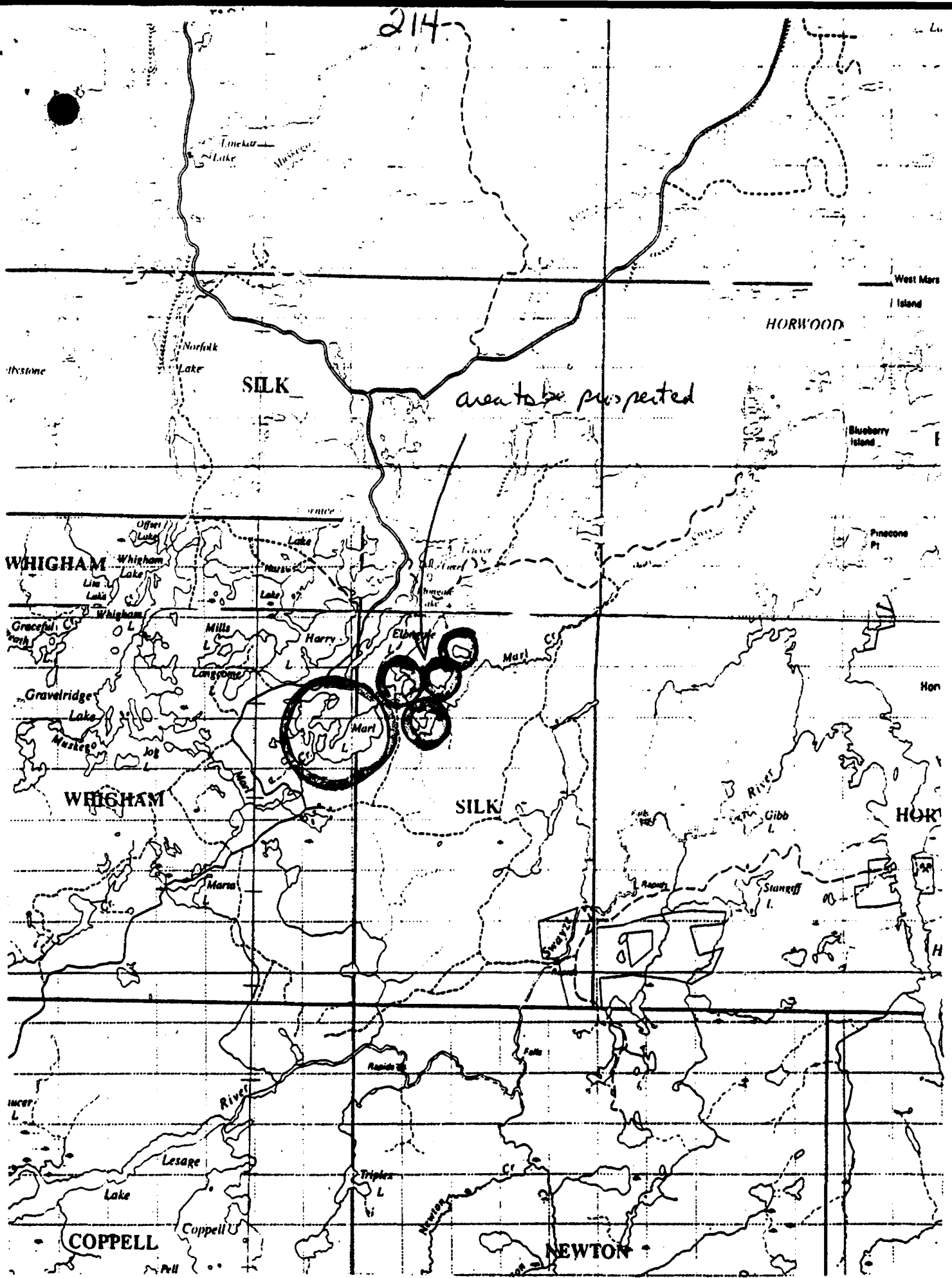


Figure 1: Location Map.





Ontario



41016NW0050 2.13938 SILK

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Mining Lands Section  
159 Cedar Street, 4th Floor  
Sudbury, Ontario  
P3E 6A5

Telephone: (705) 670-7264  
Fax: (705) 670-7262

Your File: W. 9106.00049  
Our File: 2.13938

June 7, 1991

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

Dear Sir/Madam:

RE: Notice of Intent dated May 7, 1991 for Expenditures  
on mining claims P.1154368 et al. in the Township of  
Silk.

-----  
The assessment work credits, as listed with the above-mentioned  
Notice of Intent have been approved as of the above date.

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

Yours sincerely,

Ron. C. Gashinski,  
Provincial Manager, Mining Lands  
Mines & Minerals Division

R/S  
LJS/jl

Enclosure:

cc: Mr. Paul Pitman  
Toronto, Ontario

Resident Geologist  
Timmins, Ontario

✓ Assessment Files Office  
Toronto, Ontario



Recorded Holder  
**Paul Pitman**

Township or Area  
**Silk Township**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p><b>Geophysical</b></p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p>	<p>\$2431.14 spent on assaying samples taken from Mining Claims:</p> <p>P.1154368 1154370</p> <p>162 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act. R.S.O. 1980.</p>
<p>Man days <input type="checkbox"/>                      Airborne <input type="checkbox"/></p> <p>Special provision <input type="checkbox"/>                      Ground <input type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	

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

no credit for samples Marl 4 and Mar 5 as they were not taken from the mining claims in this report of work.

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.



**MINING LANDS**

Note: - Mining claims traversed on this form, attached sheets calculated in the section may be entered under "Days Cr." columns. Indicated areas below.

Type of Survey: **GEOCHEMICAL - LAKE SEDIMENT SAMPLING** Township: **SILK TOWNSHIP**

Claim Holder(s): **PAUL P. DIMAN** Licence No.: **2.13938 A 50924**

Address: **20 TORONTO ST, STE 1270, TORONTO, ONT M5C 2B8**

Survey Company: **A. FARKAS & ASSOC.** Date of Survey (from & to): **17 10 90** to **26 10 90** Total Miles of line Cut: **0**

Name and Address of Author (of Geo-Technical report): **PAUL DIMAN (as above)**

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: <b>RECEIVED</b> Enter 40 days. (This includes line cutting) <b>FEB 28 1991</b> For each additional survey: using the same grid: Enter 40 days <b>MINING LANDS SECTION</b>	Geophysical - Electromagnetic	Days per Claim
	- Magnetometer - Radiometric - Other Geological Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim
	Geological Geochemical	<b>40</b>
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Number	Expend. Days Cr.	Mining Claim Prefix	Number	Expend. Days Cr.
	<b>1154360</b>	<b>40</b>			
	<b>1154370</b>	<b>40</b>			
<b>RECORDED</b>					
<b>FEB 20 1991</b>					
<b>RECEIVED</b>					
<b>FEB 18 1991</b>					
<b>MINING LANDS SECTION</b>					

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  + **15** = 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: **2**

For Office Use Only

Total Days Cr. Reported: **80** Date Recorded: **FEB 20 1991** Mining Order: **Robert B. B...**

Date Approved as Recorded: **May 07/91** Director: **Con...**

Date: **Feb 20 1991** 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 to this form and 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: **PAUL DIMAN 20 TORONTO ST, STE 1270 TORONTO, ONT M5C 2B8**

Date Certified: **Feb 20 1991** Certifying (Signature): **[Signature]**

Instructions  
 - Please type or print.  
 - Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.  
 - Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

*MINING LANDS*

**Report of Work**  
**Mining Act** (Expenditures, Subsection 77(19))

Type of Work Performed <i>GEOCHEMICAL SAMPLING (ASSAYS)</i>	Mining Division <i>AGRICULTURE</i>	Township or Area <i>SILK TOWNSHIP</i>												
Recorded Holder <i>P. W. PITMAN</i>	<b>2.13938</b>	Prospector's Licence No. <i>A 50924</i>												
Address <i>20 TORONTO ST, STE 1270 TORONTO</i>		Telephone No. <i>869-0772</i>												
Work Performed By <i>DR. A FARKAS (MEd geologist), S. SURMACEZ (assistant)</i>														
Name and Address of Author (of Submission) <i>20 TORONTO ST STE 1270 TORONTO M5E 2B8</i>		Date When Work was Performed From: <table border="1"> <tr> <td>Day</td> <td>Mo.</td> <td>Yr.</td> <td>Day</td> <td>Mo.</td> <td>Yr.</td> </tr> <tr> <td><i>17</i></td> <td><i>10</i></td> <td><i>90</i></td> <td><i>26</i></td> <td><i>10</i></td> <td><i>90</i></td> </tr> </table>	Day	Mo.	Yr.	Day	Mo.	Yr.	<i>17</i>	<i>10</i>	<i>90</i>	<i>26</i>	<i>10</i>	<i>90</i>
Day	Mo.	Yr.	Day	Mo.	Yr.									
<i>17</i>	<i>10</i>	<i>90</i>	<i>26</i>	<i>10</i>	<i>90</i>									

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. See Note No. 1 on reverse side											
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
<i>1154368</i>	<i>83</i>	<i>1154370</i>	<i>82</i>								

<b>Instructions</b> Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits Total Expenditures: $\$ 2479.14$ + 15 = $165$		Total Days Credits $165$	Total Number of Mining Claims Covered by this Report of Work $165$
--	--	--	-----------------------------	---

**Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information**

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
	<i>1154368</i>	<i>55</i>									
	<i>1154369</i>	<i>55</i>									
	<i>1154370</i>	<i>55</i>									

**RECORDED**

FEB 20 1991

**RECEIVED**

FEB 18 1991

**MINING LANDS SECTION**

Total Number of Days Performed <i>165</i>	Total Number of Days Claimed <i>165</i>	Total Number of Days to be Claimed at a Future Date <i>0</i>
--	--	---

**Certification of Beneficial Interest** \*See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: *Feb 20/1991* Recorded 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 Address of Person Certifying:  
*P. W. PITMAN, 20 TORONTO ST, STE 1270 TORONTO*

Telephone No.: *869-0772* Date: *Feb 16/1991* Certified By (Signature): *[Signature]*

**For Office Use Only**

Total Days Cr. Recorded <b>165</b>	Date Recorded <b>FEB 20/91</b>	Mining Recorder <i>Robert Buehler</i>
Date Approved as Recorded <b>SEE REVISED WORK STATEMENT</b>	Provincial Manager, Mining Lands	

Received Stamp  
 FEB 20 1991  
 M  
 10:00  
 MCR

# Assessment Work Breakdown

*WP106.00050*

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey <span style="float: right;"><i>geotechnical sampling - 2 men for 10 days</i></span>						
Technical Days <input style="width: 50px; text-align: center;" type="text" value="30"/>	X <input style="width: 30px; text-align: center;" type="text" value="7"/>	= <input style="width: 50px; text-align: center;" type="text" value="140"/>	+ <input style="width: 50px; text-align: center;" type="text" value="-"/>	= <input style="width: 50px; text-align: center;" type="text" value="140"/>	+ <input style="width: 50px; text-align: center;" type="text" value="2"/>	= <input style="width: 50px; text-align: center;" type="text" value="50"/>

Type of Survey						
Technical Days <input style="width: 50px;" type="text"/>	X <input style="width: 30px; text-align: center;" type="text" value="7"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>

Type of Survey						
Technical Days <input style="width: 50px;" type="text"/>	X <input style="width: 30px; text-align: center;" type="text" value="7"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>

Type of Survey						
Technical Days <input style="width: 50px;" type="text"/>	X <input style="width: 30px; text-align: center;" type="text" value="7"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>	+ <input style="width: 50px;" type="text"/>	= <input style="width: 50px;" type="text"/>

April 22, 1991

MEMO TO FILE:

On this date, April 22, 1991 I called Mr. Pitman to ask him to explain why it took two (2) men 10 days to collect 60 samples for geochemical assaying.

He returned my call on April 24, 1991. He explained that the sampling was done to get a sample below the soft lake bottom sediments. It took several attempts to get a representative sample. In some cases it took up to half a day to get just one sample. Two men were required because of the continuous reeling in of samples. 1

These were the reasons Mr Pitman stated for the length of time involved to take these samples

Ray J. Stolik

2.13938

INVOICE

Arpad Jarkos  
Consulting Geologist  
66 Pacific Ave #502  
Toronto, Ont.  
M6P, 2P4  
Dec 15/1990

To: Mr. Paul Pitman  
Consulting Geologist  
Suite 1270, 20 Toronto Str.  
Toronto. M5C 2B8

Re: X-ray diffraction work on the acid insoluble component of marl samples from MARL Lake, Ont.

Fees: XRD work on six samples at \$50 each: \$300  
(Includes writing of a short report).

Total amount due :

\$300

Arpad Jarkos  
Consulting Geologist.



5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8568  
FAX: (416) 890-8575

I N V O I C E

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4  
Authority: A.Farkas  
Project:

Date : 25-Jan-91  
Job : 911007  
Invoice: 30303

PO #:

Terms: Net 30 days

Analyses:

Lithoprint Package  
Carbon-total  
Carbon-organic  
Acid insoluble

1 Custom Package 200.00 \$ 200.00

Sub Total: \$ 200.00

Taxes: 7.00 \$ 14.00

TOTAL DUE: \$ 214.00

Remit to: Barringer Laboratories Limited  
304 Carlingview Drive  
Rexdale, Ontario  
M9W 5G2

G.S.T. No. R121844088

--- Original ---

# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

## INVOICE

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4  
Authority: A. Farkas  
Project:

Date : 20-Dec-90

Job : 901391

Invoice: 30217

PO #:

Terms:

### Set: 1

10 Soil samples sieved through a 200 mesh screen 9.00 \$ 90.00

### Analyses:

10 Lithoprint Package 23.00 \$ 230.00

### Set: 2

### Analyses:

20 Carbon-organic 9.50 \$ 190.00

TOTAL DUE: \$ 510.00

Remit to: Barringer Laboratories Limited  
304 Carlingview Drive  
Rexdale, Ontario  
M9W 5G2

G.S.T. No. R121844088

--- Original ---



# BARRINGER LABORATORIES

5735 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
PHONE: (416) 890-8566  
FAX: (416) 890-8575

## INVOICE

Arpad Farkas  
66 Pacific Ave  
Apt#502  
Toronto, Ontario  
M6P 2P4  
Authority: A.Farkas  
Project:

Date : 20-Dec-90

Job : 901389

Invoice: 30215

PO #:

Terms:

60 Soil Sample Preparation 1.00 \$ 60.00

Analyses:

60 Lithoprint Package 23.00 \$1380.00

Sub Total: \$1440.00

Credit \$144.00 (to be credited to future work)

TOTAL DUE: \$1440.00

Remit to: Barringer Laboratories Limited  
304 Carlingview Drive  
Rexdale, Ontario  
M9W 5G2

G.S.T. No. R121844088

--- Original ---





BILLING COPY  
 DOWNTOWN-METRO  
 & MISSISSAUGA COURIERS  
 196 WICKSTEED AVENUE  
 TORONTO, ONTARIO M4G 2B6  
 425-7570

626356

Date \_\_\_\_\_ 19\_\_\_\_

Charge to <sup>1991</sup> JAN 2 Contis Paul  
12-44 Pitman

Pick up at Paul Pitman Dept No. \_\_\_\_\_

20 Toronto St  
Dr C Prop Off (un)

Receipt Sheets Telephone: \_\_\_\_\_  
 P.U. Driver SSS Delivery Driver \_\_\_\_\_ Time \_\_\_\_\_

Deliver to LABS  
5735 Mc Adam Rd

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		nt	
0.00	*		
14.15	x	JAN 21	PM 2:43
7.00	%		
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0.00	*		<u>1415</u>
ived in good order by:			
14.15	+		
0.99	+		
15.14	*		
0.00	*		

Courier to  
 Barringer Labs

**I. WORK PERFORMED BY APPLICANT (Continued)**

2. Project area/name _____		No. Days Worked By Applicant _____
Traditional Prospecting	no. of samples _____	_____
Geological surveys	scale _____	_____
Geophysical surveys	type _____ miles/km _____	_____
Geochemical surveys	type _____ no. of samples _____	_____
Drilling	type _____ ft/m _____	_____
Stripping/Trenching	method _____	_____
Other	type _____	_____
	<b>TOTAL</b>	_____
<b>TOTAL DAYS (ALL PROJECTS)</b>		<b>A.</b> _____

(Attach additional sheets for additional project areas as required)

**II. DETAILED LIST OF EXPENDITURES (Summarize in Section III)**

Date	Recipient of Payment	Explanation	Amount
<u>Nov 1 1990</u>	<u>Dr Ayud Farhas</u>	<u>field expenses, X Ray</u>	<u>3049.13</u>
<u>Nov 1 1990</u>	<u>Indra Sumanary</u>	<u>assistant</u>	<u>1684.63</u>
<u>Dec 20, Jan 25 1991</u>	<u>Barringer Lab</u>	<u>assays</u>	<u>2164.00</u>
<u>July 1990, Jan 1991</u>	<u>Paul O'Leary</u>	<u>field logistics, assays</u>	<u>825.00</u>
<u>Jan 91</u>	<u>Typist, ducting, photocopying, chum etc</u>		<u>322.00</u>
Mileage rate claimed <u>2706</u>	<u>km at 30¢/km.</u>		<u>\$11.80</u>
(Attach additional sheets as required)			
	<b>TOTAL</b>		<u>\$866.56</u>

**III. EXPENDITURES (total of all projects) - Summary of I and II**

1. Number of Working Days (A) x \$100/day ..... <u>8 + GST</u>	\$ <u>835</u>
2. Analyses/Assay Costs ..... <u>t... X Ray work</u>	\$ <u>2464</u>
3. Equipment Rentals/Supplies .....	\$ <u>246.80</u>
4. Contract Services (State Type) ... <u>field days x 20 @ 150/day</u>	\$ <u>3000.00</u>
5. Travel (state method: <u>road</u> , air, etc.) .....	\$ <u>996.43</u>
6. Food and Accommodation .....	\$ <u>1002.33</u>
7. Other Expenses (Specify) <u>report into, field maps, currency to lab etc</u>	\$ <u>322.00</u>
<b>TOTAL EXPENDITURES .....</b>	\$ <u>8866.56</u>

IV. GISTRES QUOTIDIENS (Résumez les travaux de la Partie I)

Jour	Volet du projet	Date	Travail effectué
1	Marl Lake	July 29	Field Logistics, research into sampling devices, to identify if what has, found
2		29	
3		31	Bunch to talk with past specialist re samples, talk with Bill Cohen, Ottawa
4			GSC or GSC books, to GSC, to see
5			sediment samples, calls to mining
6			companies to locate sediment
7			samples or to rent one,
8			
9	Marl Lake	Oct 17	Travel from Toronto to Timmins
10		Oct 18	Travel to Folyet, arrange for
11			contract, investigate road access
12		Oct 19	cut trail for portage to lake
13		Oct 20	trail sampling to down hole sampler
14		Oct 21	sample mail
15		Oct 22	sample mail
16		Oct 23	sample mail
17		Oct 24	inspect for mail around edge of lake
18			areas of claims 115437, 1154372
19			1154373.
20		Oct 25	check character of water of lake,
21			next with Folyet as environmental
22			uses for mail at lake.
23		Oct 26	travel from Timmins to Toronto
24			
25	Marl Lake	Jan 2	write report, analyze data, compilation
26		3	of data, draft report, arrange for
27		4	typing and photoreproduce of report
28		13	plus maps.
29		14	
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Ajoutez des feuilles additionnelles au besoin

Feb 20, 1991

Mining Lands  
159 Cedar St. 4th Floor  
Sudbury, Ont. P3E 6A5

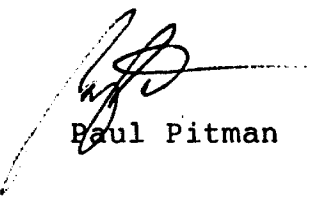
Re: Assessment Credits, Marl Lake Claim Group, Silk Twp.

Dear Sir:

Please find attached 2 reports of work for surveys completed in 1990 on claims staked in Silk Township in 1990.

Attached also are the required forms to accompany the Reports of Work.

sincerely,



Paul Pitman

**RECEIVED**

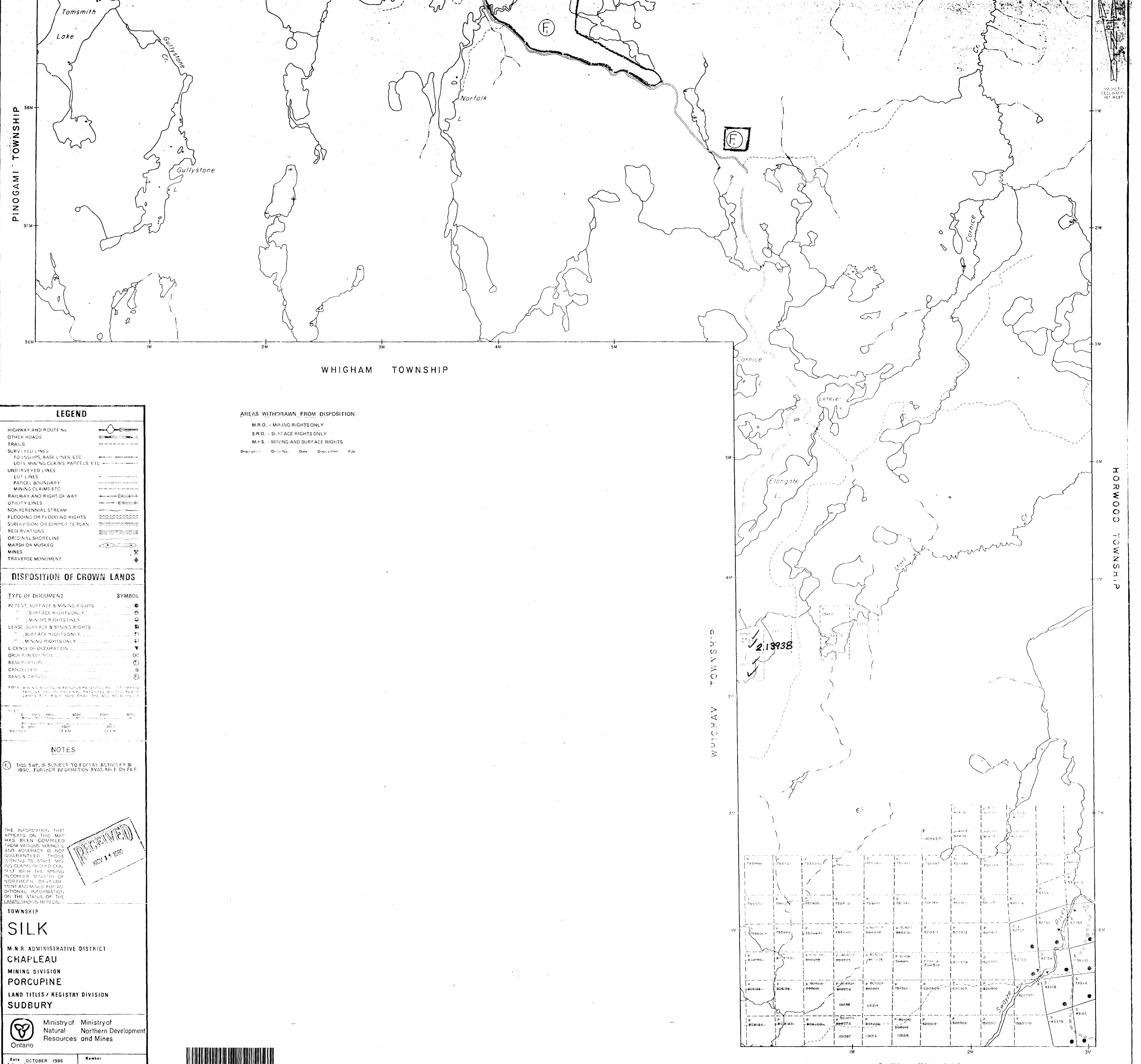
**FEB 18 1991**

**MINING LANDS SECTION**



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PITMAN & ASSOCIATES

20 Toronto St. Suite 1270  
Toronto, Ontario M5C 2B8



PINOGAMI TOWNSHIP

WHIGHAM TOWNSHIP

HORWOOD TOWNSHIP

WHIGHAM TOWNSHIP

NEWTON TOWNSHIP

**LEGEND**

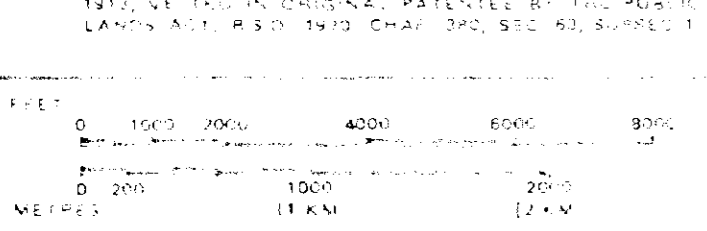
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION, OR COMPACT PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**AREAS WITHDRAWN FROM DISPOSITION**

- M.R.O. - MINING RIGHTS ONLY
  - S.R.O. - SURFACE RIGHTS ONLY
  - M+S - MINING AND SURFACE RIGHTS
- Description    Order No.    Date    Description    File

**DISPOSITION OF CROWN LANDS**

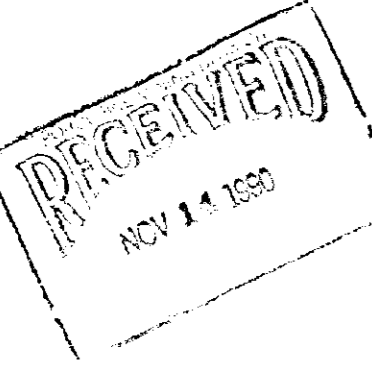
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
"  SURFACE RIGHTS ONLY	○
"  MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
"  SURFACE RIGHTS ONLY	◼
"  MINING RIGHTS ONLY	◻
LICENSE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕



**NOTES**

THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE INTENDING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING REGULATOR, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



TOWNSHIP  
**SILK**  
M.N.R. ADMINISTRATIVE DISTRICT  
**CHAPLEAU**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**SUDBURY**

