

42A07SW0057 2.5423 LANGMUIR

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Mercier Explorations Inc.  
Electromagnetic & Magnetic Surveys  
Fallon & Langmuir Twps.  
Ontario

**RECEIVED**

**MAR 14 1983**

**ING LANDS SECTION**

March 15, 1983

H. Grant Harper, P.Eng.  
Economic Geologist.

Mercier Explorations Inc.  
Electromagnetic & Magnetic Surveys  
Fallon & Langmuir Twps.  
Ontario

Introduction

This report covers magnetic and electromagnetic surveys on a group of claims located in Fallon and Langmuir Townships, Porcupine Mining Division, Ontario, which are owned by Mercier Explorations Inc. The survey work was done in February of 1983.

A base line was established along the township line and north-south picket lines were cut every 100 metres. The line cutting was done by Claude Castonguay and Leon Gagnon of Kirkland Lake and Swastika. The survey work was done by E.M. Hall of Toronto. H. Grant Harper of Toronto did the interpretation, map preparation and report.

Property and Location

The property consists of 8 contiguous mining claims numbered as follows P652642 to P652649 inclusive.

The property straddles the boundary between Fallon and Langmuir Townships near the 2 mile post. It is located in the Porcupine Mining Division approximately 15 miles southeast of Timmins.

Access and Facilities

Access to the property is from South Porcupine southward through Shaw and Eldorado Townships to the west corner of Langmuir nad Fallon Townships. Thence by walking eastward 3/4 mile to the west boundary of the claims.

The only facility of note on the property is a grid system of north-south picket lines,

## Magnetic Survey

The magnetic survey was done with a Scintrex MF1 Magnetometer. The maximum range was from 340 to 4665 gammas.

The magnetic survey results are a clear reflection of the geology of the area as mapped by the Ontario Geological Survey. When the geology is mapped in detail (spring, 1983) the geological picture will be more precise. In a broad way the general area of basic rocks (serpentinized peridotites and pyroxenites) is outlined by a band of strongly magnetic rocks which occupy the northwest quarter of the claim area. The southeast quarter, an area of modestly intense magnetism represents an area of mixed volcanics and acid intrusives. The broad central area of low magnetic intensity represents the volcanic rocks.

The magnetic relationships also suggest the presence of the northwest cross-fault mapped by the Ontario Geological Survey.

## Electromagnetic Survey

The electromagnetic survey was done with a Ronka VLF EM16 unit.

A well defined conductor can be traced continuously through the basic rocks very close to their contact with the volcanics. It is coincident with a zone of strong magnetic intensity. This conductor terminates against the cross-fault described above. A second conductor trends east-westerly through the main body of volcanic rocks. This conductor appears to be offset by the northwest trending cross-fault. The apparent movement is left-handed, consistent with the movement recorded by the OGS.

There are several isolated conductors whose significance, if any, cannot be judged at this time.

## Conclusions and Recommendations

- 1.- The magnetic and electromagnetic surveys have located a number of interesting anomalies whose importance will be more apparent when the property is mapped geologically and prospected. At present the known gold occurrence cannot be related to the geophysical results.
- 2.- All exploration data should be re-evaluated when the prospecting and geological mapping are completed.

This report is respectfully submitted.

HARPER CONSULTING SERVICES INC.

March 15, 1983.  
Willowdale, Ontario.

*H.G. Harper*  
H.G. Harper, P. Eng.,  
President.

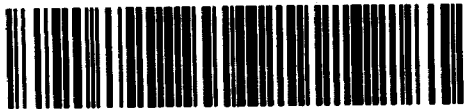
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**Report of Work**  
(Geophysical, Geological,  
Geochemical and Expenditures)

2.54.23  
#



42A075W0057 2.5423 LANGMUIR

900

The Minin...

Do not use shaded areas below.

Type of Survey(s) **Electromagnetic, magnetic** Township or Area **Fallon & Langmuir**

Claim Holder(s) **Mercier Explorations Inc.**

Address **Suite 806 - 88 University Ave, Toronto**

Survey Company **Harper Consulting Services Inc.** Date of Survey (from & to) **1 2 83 15 3 83** Total Miles of Line Cut **11.4**

Name and Address of Author (of Geo-Technical report) **H. Grant Harper 314 Hendon Ave, Welland, Ont. M2M 1B2**

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	652642				
	652643				
	652644				
	652645				
	652646				
	652647				
	652648				
	652649				

**RECEIVED**  
MAR 25 1983  
MINING LANDS SECTION

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.

Date **Mar 15 1983** Recorded Holder or Agent (Signature) **H. Grant Harper**

For Office Use Only

Total Days Cr. Recorded **480** Date Recorded **Mar. 21/82** Mining Recorder **[Signature]**

Date Approved as Recorded **83:05:10** Branch Director **[Signature]**

Total number of mining claims covered by this report of work. **8**

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 **H. Grant Harper**

Date Certified **Mar 15 1983** Certified by (Signature) **[Signature]**



May 24/83

File 2.5423

Mining Lands Comments


To: Geophysics *Mr. Barlow.*

Comments

Approved     Wish to see again with corrections

Date *July 26/83*    Signature *Douglas K. Pritchard*

To: Geology - Expenditures

Comments

Approved     Wish to see again with corrections

Date    Signature

To: Geochemistry

Comments

*UP*

Approved     Wish to see again with corrections

Date    Signature

To: Mining Lands Section, Room 6462, Whitney Block.    (Tel: 5-1380)

1983 03 22

2.5423

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 652642 et al in the Townships of Fallon and Langmuir.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1380

A. Barr:sc

cc: Mercier Explorations Inc  
Toronto, Ontario

cc: Harper Consulting Services Inc  
Willowdale, Ontario

  
**HARPER Consulting Services Inc.**

H. Grant Harper P. Eng., President  
Consulting Engineer & Geologist

314 Hendon Avenue  
Willowdale, Ontario M2M 1B2  
(416) 225-7412

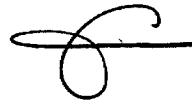
March 15, 1983.

Mining Recorder,  
Porcupine Mining Division,  
60 Wilson Ave.,  
Timmins, Ontario.  
P4N 2S7

Dear Sir,

The enclosed Report of Work covers 8 claims located in Fallon and Langmuir Townships. The required maps and reports in duplicate have been submitted to Mr. Matthews in Toronto.

Yours truly,









- If number of mining claims traversed exceeds space on this form, attach a list.  
 Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.  
 - Do not use shaded areas below.

The Mining Act

Type of Survey(s) <i>Electromagnetic, magnetic</i>	Township or Area <i>Fallon &amp; Langmuir</i>
Claim Holder(s) <i>Mercier Explorations Inc.</i>	Prospector's Licence No. <i>T 897</i>
Address <i>Suite 806 - 88 University Ave, Toronto</i>	
Survey Company <i>Harper Consulting Services Inc.</i>	Date of Survey (from & to) Day   Mo.   Yr.   Day   Mo.   Yr. <i>1 2 83   15 3 83</i>
Name and Address of Author (of Geo-Technical report) <i>H. Grant Harper 314 Henderson Ave, Welland Ont. M2M 1B2</i>	
Total Miles of line Cut <i>11.4</i>	

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
<i>P</i>	<i>652642</i>				
	<i>652643</i>				
	<i>652644</i>				
	<i>652645</i>				
	<i>652646</i>				
	<i>652647</i>				
	<i>652648</i>				
	<i>652649</i>				

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. 8

For Office Use Only			
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
	Date Approved as Recorded	Branch Director	

Date <i>Mar 15 1983</i>	Recorded Holder or Agent (Signature) <i>H. Grant Harper</i>
----------------------------	--

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  
*H. Grant Harper*

*314 Henderson Ave, Welland Ont.*

Date Certified *Mar 15 1983*

Certified by (Signature)  
*H. Grant Harper*

			EM	mag.	File no. 2.5423
		P 652642	✓	✓	
		643	✓	✓	
		644	✓	✓	
		645	✓	✓	
		646	✓	✓	
		647	✓	✓	
		648	✓	✓	
		649	✓	✓	

**NOTES**

400' surface rights reservation along the shores of all lakes and rivers.

Flooding rights on Nighthawk Lake to the contour elevation 903.5' reserved to H.E.P.C.

**SAND and GRAVEL**

①	GRAVEL	File	Nº 171978
②	"	"	Nº 151198
③	"	"	Nº 171978 & 171979

This township lies within the Municipality of CITY of TIMMINS.

**AREAS WITHDRAWN FROM DISPOSITION**

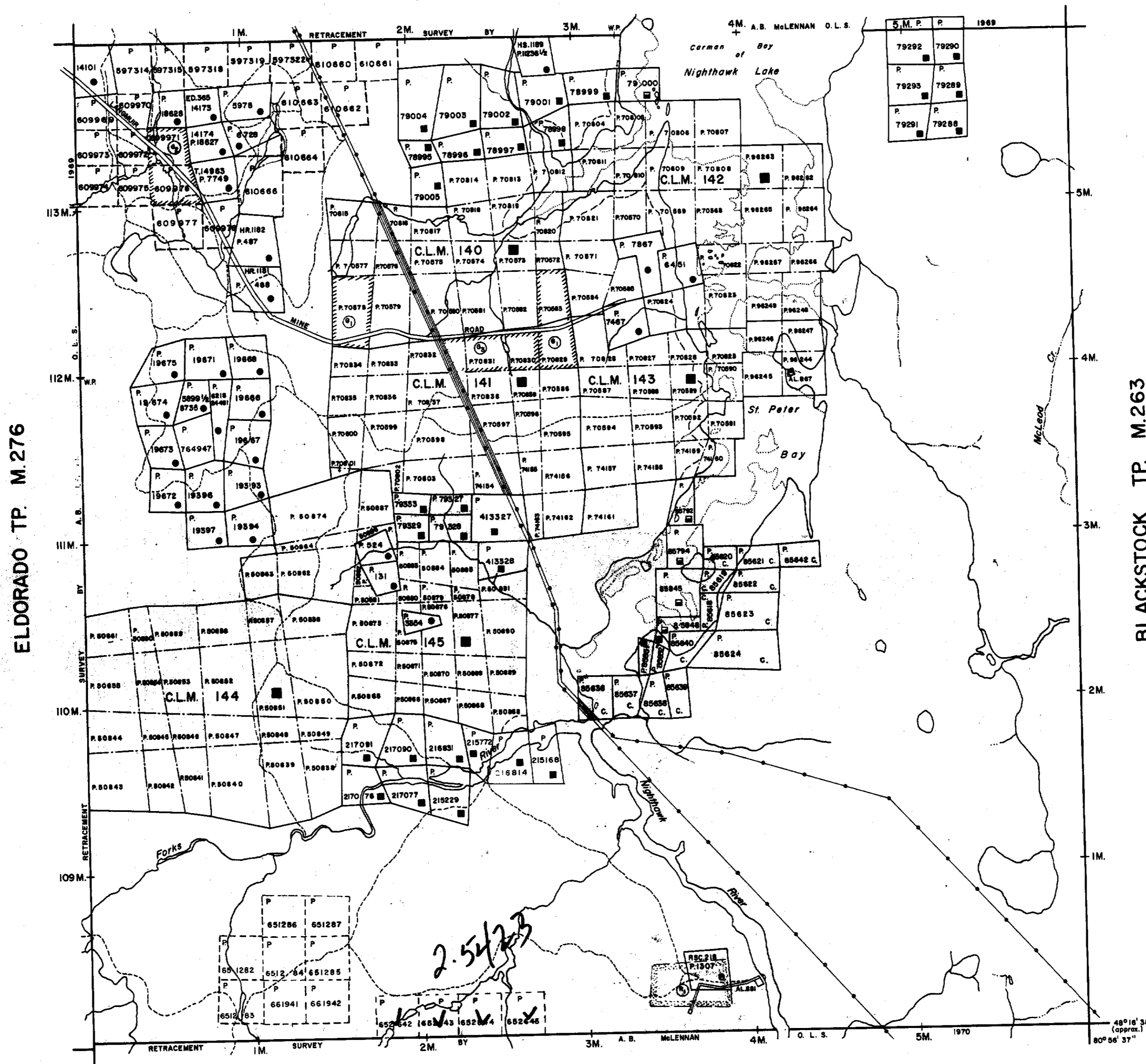
M.F.O. - MINING RIGHTS ONLY

S.F.O. - SURFACE RIGHTS ONLY

S.F.O. - MINING AND SURFACE RIGHTS

File No.	Date	Disposition	P.R.
122/88/80	M. 27/83	12/5/83	M. S.S. 188811

**CARMAN TP. M.266**



**FALLON TP. M.278**

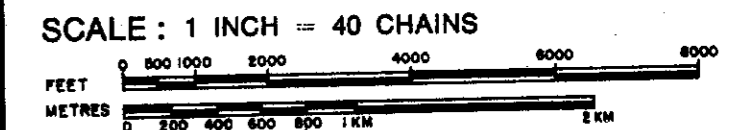
**LEGEND**

- 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

**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	◓
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	⊚

**DATE OF ISSUE**  
AUG - 9 1983  
Ministry of Natural Resources  
TORONTO



ACRES	HECTARES
40	16

TOWNSHIP

**LANGMUIR**

DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE



Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date SEPT. 1973

Plan No.

Whitney Block  
Queen's Park, Toronto

**M.292**



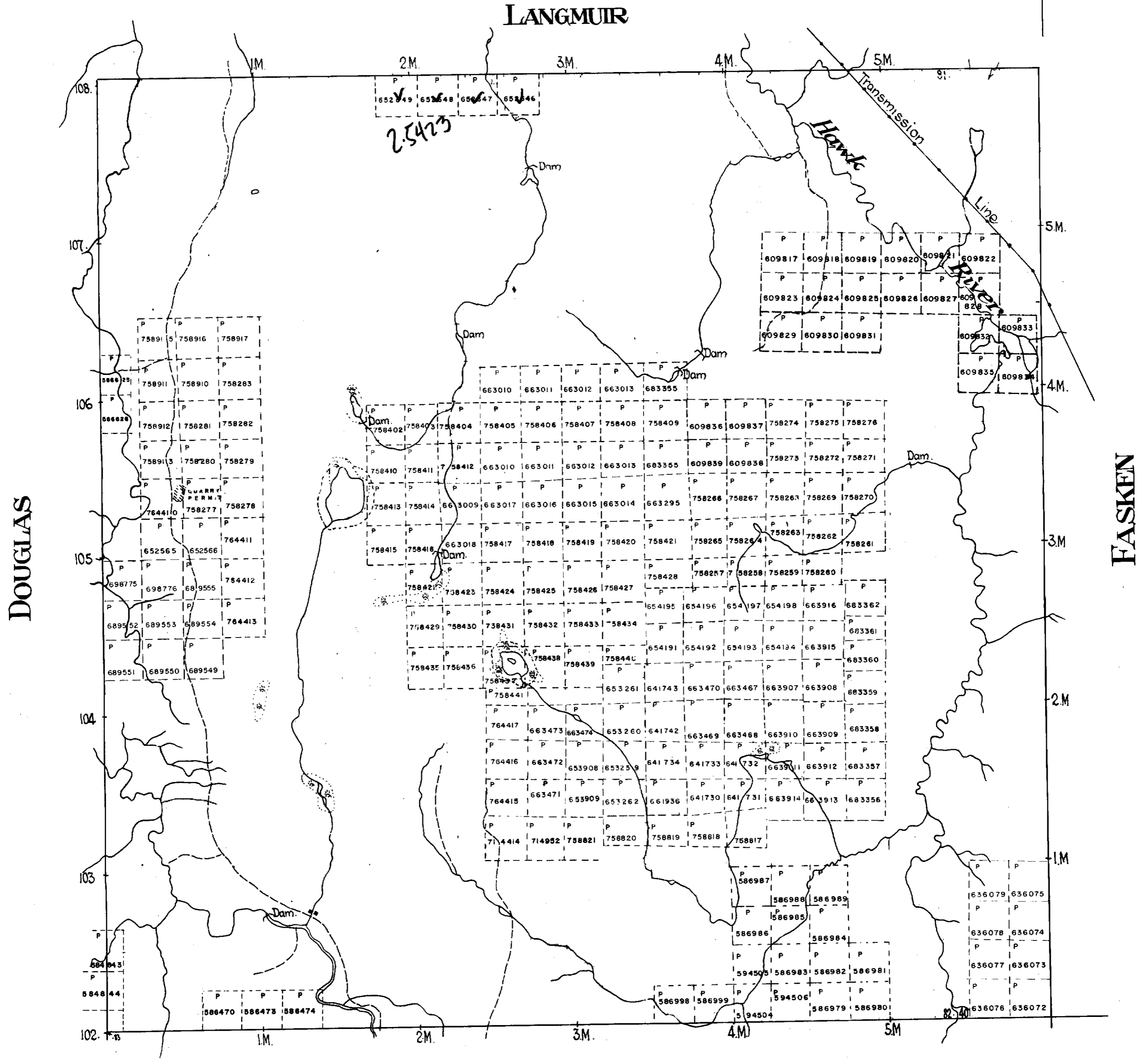
# FALLON

PORCUPINE MINING DIVISION  
 DISTRICT OF TIMISKAMING

Scale: - 40 Chans - 1 Inch

DATE OF ISSUE  
 AUG - 9 1983  
 Ministry of Natural Resources  
 TORONTO

North Ast.



DOUGLAS

FASKEN

**LEGEND**

- |                       |        |
|-----------------------|--------|
| CANCELLED             | C      |
| PATENTED LAND         | Ⓢ      |
| CROWN LAND SALE       | C.S.   |
| LEASES                | Ⓛ      |
| LOCATED LAND          | Loc.   |
| LICENSE OF OCCUPATION | L.O.   |
| MINING RIGHTS ONLY    | M.R.O. |
| SURFACE RIGHTS ONLY   | S.R.O. |

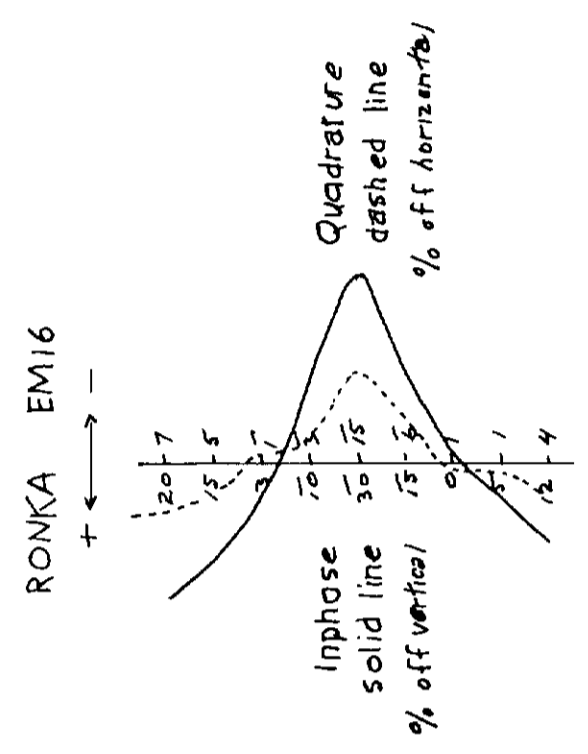
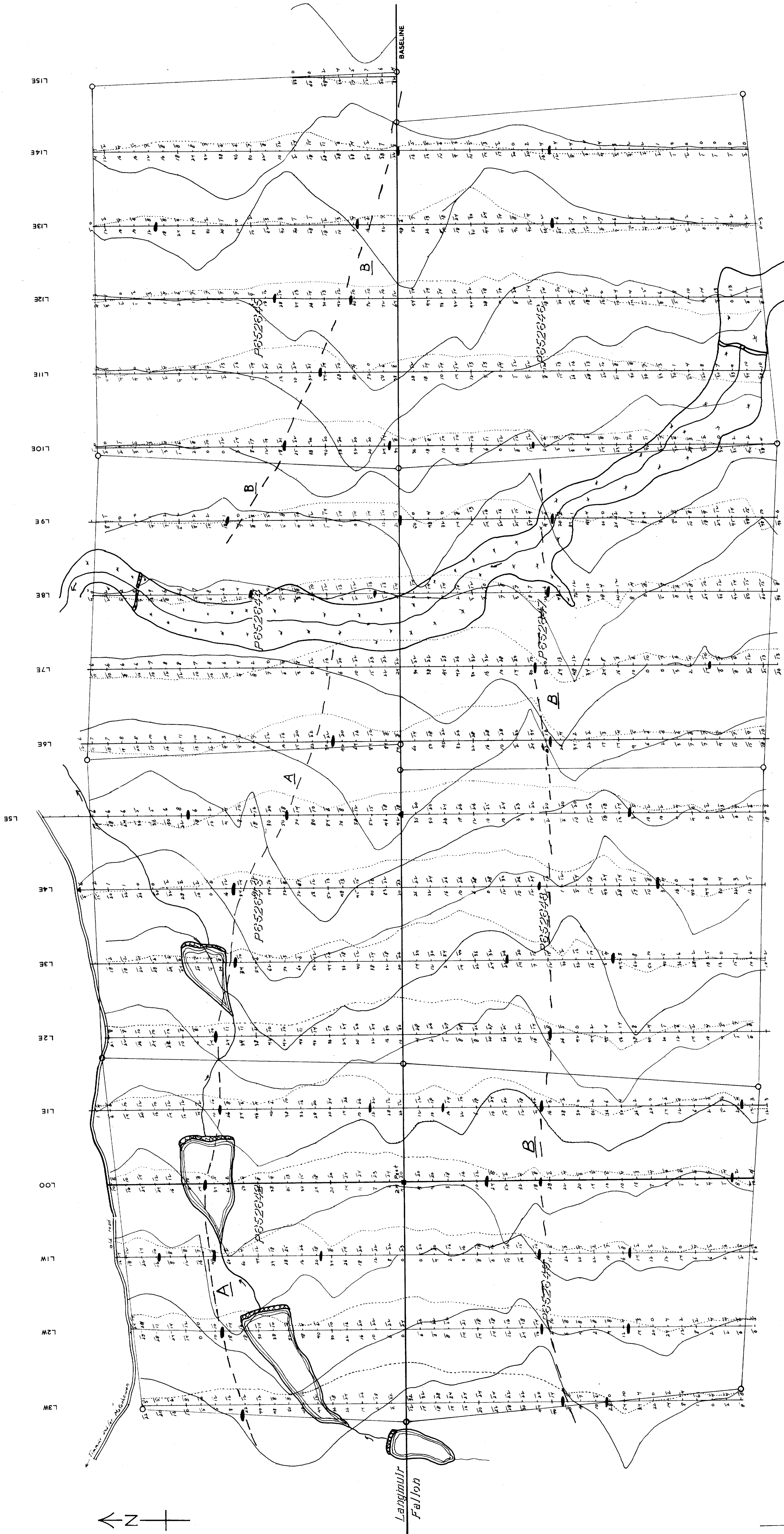
**CLEAVER**

40' Surface rights reservation around all lakes & rivers.

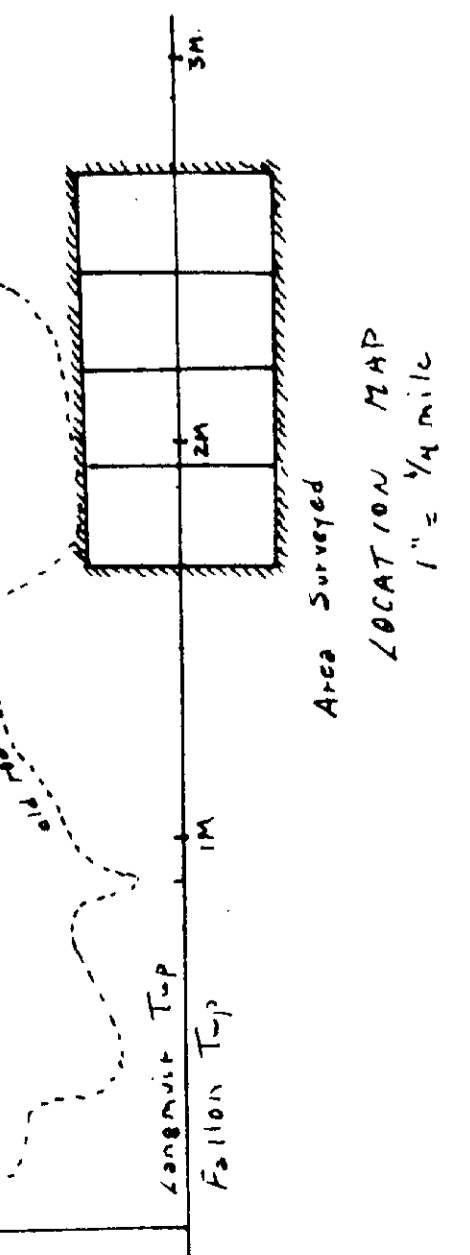


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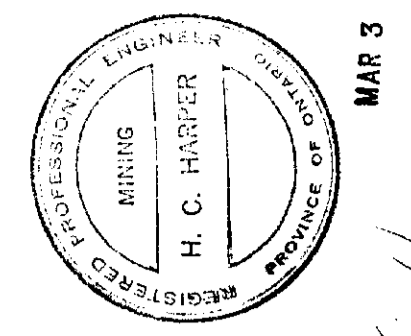
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RONKA EM16  
EM Conductor

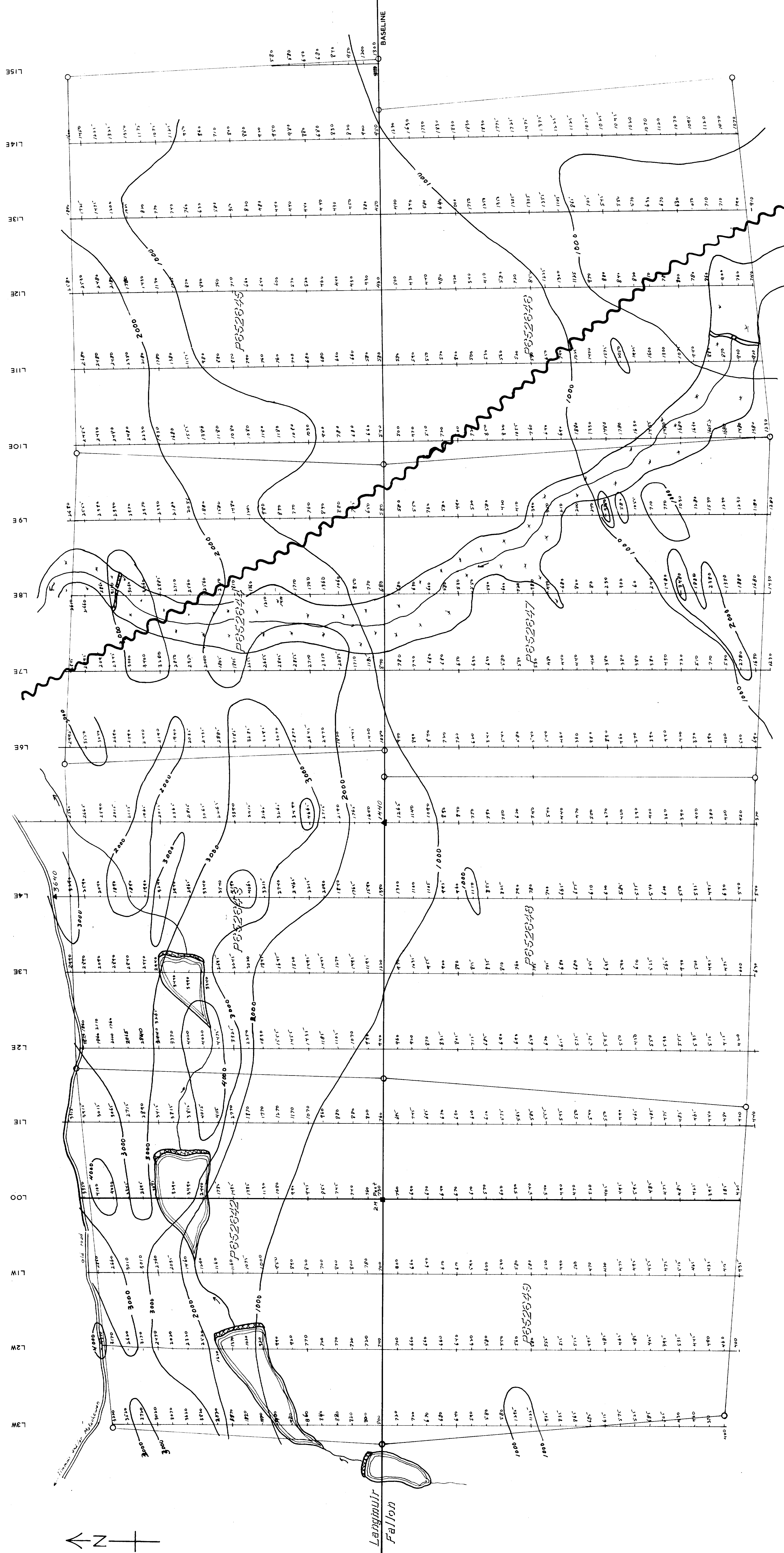


**MERCIER EXPLORATIONS LTD**  
LANGMUIR - FALLON TWP.  
Electromagnetic Survey  
1:2000

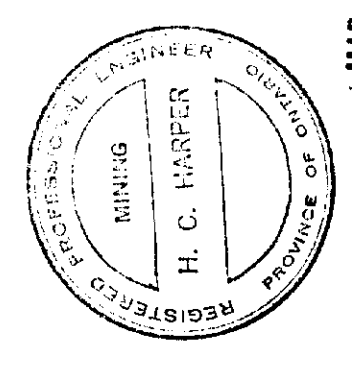


Profile Scale: 1"=30'  
Transmitting Station: CUTLER, MAINE  
all readings facing north.

MAR 3 2003  
H.C. Hadder  
25483



**MERCIER EXPLORATIONS LTD**  
 LANGMUIR - FALLON TWPS.  
 Magnetic Survey  
 1:2000



MAR 8 1982  
 116 Hops  
 25423

▲ Base Station  
 Instrument: Sanites MF1

- LEGEND**
- Over 4000
  - 3000 to 4000
  - 2000 to 3000
  - 1000 to 2000
  - Under 1000

