

SERVICES

84 RUE GATINEAU, STREET  
NORANDA, QUE., CANADA  
J9X 1N1

SERVICES Enrg.  
Reg'd

2.3179  
TELEPHONE: (819) 762 5498



41P11SE0052 2.3179 CHURCHILL

010

G E O P H Y S I C A L      S U R V E Y S

JOE SAUVE CLAIM GROUP

CHURCHILL & ASQUITH TWPS., ONT.

**RECEIVED**

JAN 04 1990

**MINING LANDS SECTION**

I - INTRODUCTION: Geophysical surveys were carried out on the Joe Sauvé claim group during the month of December, 1979, in an attempt to elucidate, in terms of structure and stratigraphy, the rather complex geology of this gold prospect.

II - PROPERTY: The property consists of 14 contiguous 40 acre claims registered at the mining recorders' office of the Larder Lake Mining Division under the following numbers:

512314, 512315, 512316, 512317, 512318, 512319, 512320,  
512321, 512322, 512324, 512325, 512326, 512327 & 512328.

III - LOCATION & ACCESSIBILITY:

The said claim group straddles the east-west boundary of Churchill and Asquith townships at an approximate distance of 1 mile north of the town of Shiningtree, Ont.

The area is readily accessible via the bush roads which lead northwestwards from highway 560 which lies at a short distance to the southeast.

IV - GEOPHYSICAL SURVEYS:

The surveys were carried out on a previously cut grid whose 4,800' long base line strikes at  $330^{\circ}$ . Cross lines occur at every 400' intervals and extend on either side of the base line. A second base line was cut in the northeastern part of the property for additional control. A total of 12.0 line miles has thus been cut and surveyed.

Magnetometer Survey:

An Exploranium G816 proton magnetometer was used for the survey; readings were taken at every 50' intervals.

Numerous long and relatively narrow magnetic anomalies have been outlined in a direction more or less parallel to the base line and consequently to the stratigraphy. The geological map of "TRI-BRIDGE CONSOLIDATED GOLD MINES" (1975), which covers most of the surveyed area, indicates that the magnetic anomalies are caused by swarms of diabase dykes or sills - the survey does not appear to be able to discriminate between the other two major rock types, i.e. the andesite and the rhyolite.

In addition, the magnetic survey is not entirely

supportive of the structural or structural interpretation of the geological data as presented on the TRI-BRIDGE map.

Electromagnetic Survey:

A Geonics E.M. 16 unit was employed for the survey using the NSS 21.4 kh. station; readings were taken at every 100' intervals.

Numerous long conductors were outlined, most however occur in depressions or over cedar swamp areas - they may or may not be indicators of sulfide-rich horizons or shear zones - surface features are the most probable cause of these conductors: conductors A, B, the western and eastern segments of E and conductor H are located in areas covered by cedar swamps; conductors C and the central segments of conductor E and conductor F occupy lakes or valleys connecting lakes.

V - CONCLUSIONS & RECOMMENDATIONS:

Of the two surveys, the magnetometer survey, with readings taken at every 50' intervals, appears to be the most useful in the interpretation of the local structure and geology; it should be consulted to complement the geological data.

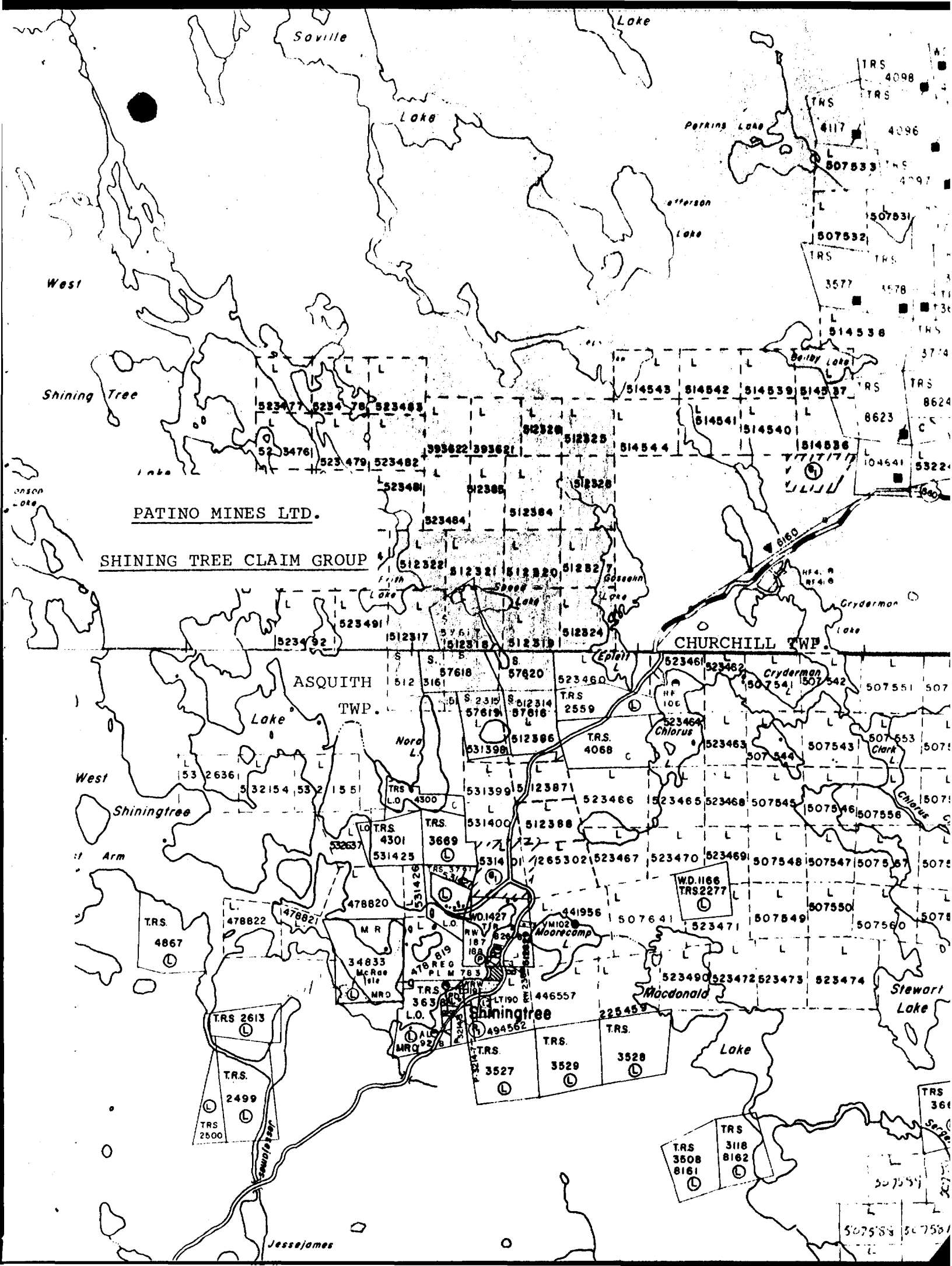
Submitted by:

E. Chartré, B.A, B.Sc.

*E. Chartré*

Dec. 27, 1979

*E. Chartré*



PATINO MINES LTD.

SHINING TREE CLAIM GROUP

ASQUITH TWP.

CHURCHILL TWP.

TRS 2613

TRS 2499

TRS 2500

TRS 363

TRS 3527

TRS 3529

TRS 3528

TRS 3118

TRS 3162

TRS 3508

TRS 8161

W.D. 1166

TRS 2277

TRS 4301

TRS 3669

TRS 363

TRS 363

TRS 363

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W.D. 1427

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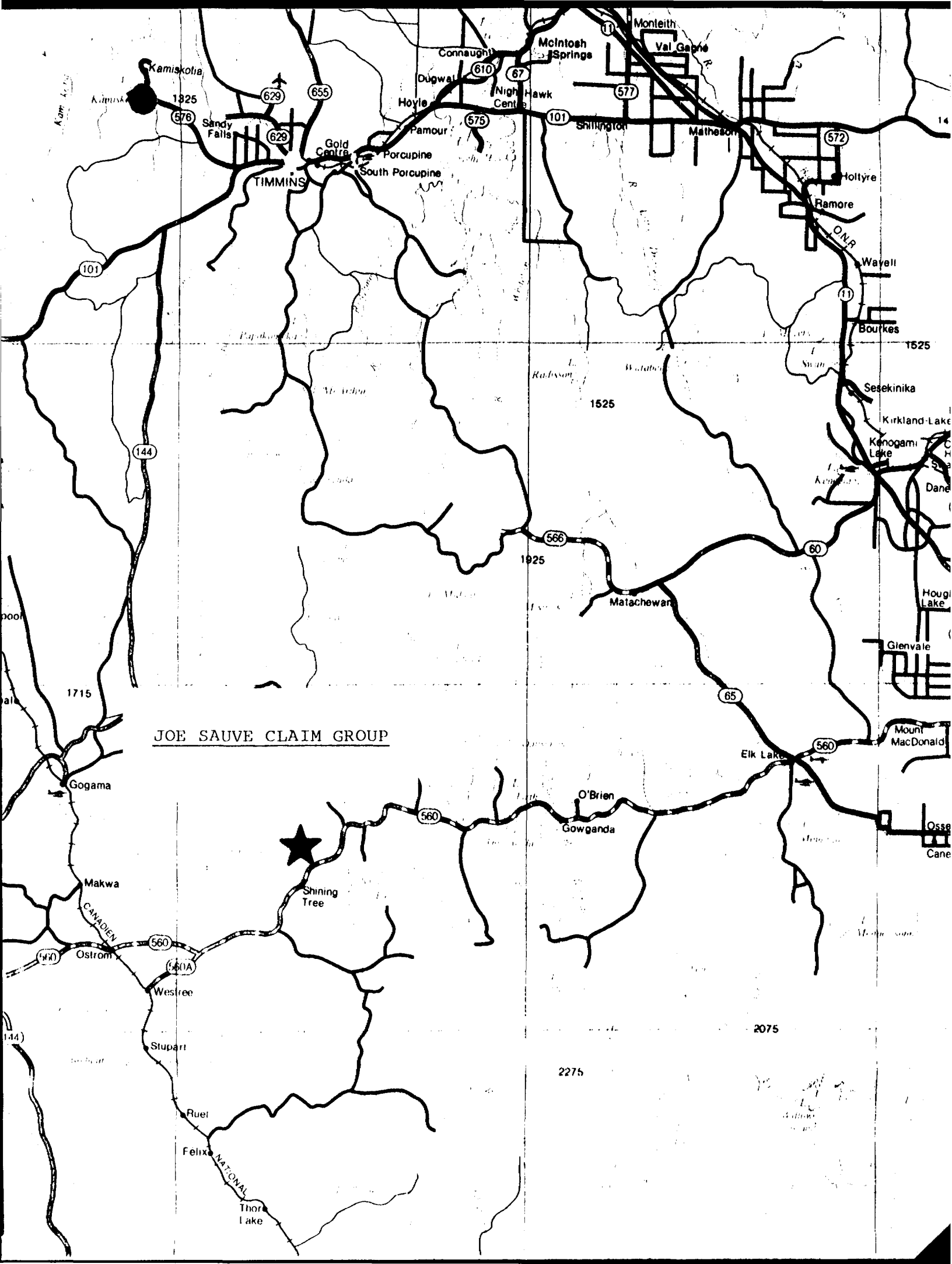
W.D. 1166

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JOE SAUVE CLAIM GROUP



Shining Tree

Felix NATIONAL  
Thor Lake



GEOP.



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900

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOPHYSICAL

Township or Area CHURCHILL & ASQUITH

Claim Holder(s) Joe Sauvé

Survey Company EXPLORATION SERVICES REG'D

Author of Report E. Chartré

Address of Author 84 Gatineau, Noranda, Qué. J9X 1N1

Covering Dates of Survey Oct. 1 - Dec. 15.  
(linecutting to office)

Total Miles of Line Cut 13

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

ENTER 40 days (includes  
line cutting) for first  
survey.

ENTER 20 days for each  
additional survey using  
same grid.

Geophysical

-Electromagnetic 40

-Magnetometer 20

-Radiometric \_\_\_\_\_

-Other \_\_\_\_\_

Geological \_\_\_\_\_

Geochemical \_\_\_\_\_

DAYS  
per claim

**AIRBORNE CREDITS** (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Author of Report or Agent

Res. Geol. L.D. Qualifications 2 14 15

**Previous Surveys**

File No.	Type	Date	Claim Holder

**MINING CLAIMS TRAVERSED**  
List numerically

- EM* 1/4 *(prefix)* covered *MAG* (number) 512314
  - L - 512315
  - 2/3 L - 512316
  - 1/3 L - 512317
  - L - 512318
  - L - 512319
  - L - 512320
  - L - 512321
  - 1/3 L - 512322
  - 1/3 L - 512324
  - 1/3 L - 512325
  - L - 512326
  - 1/4 L - 512327
  - 1/2 L - 512328
- EM and mag area of claims N.C. = 1/4 x 3 = 3/4*
- 40 x 14 = 560 - (14 x 2) = 35 days*
- Mag 17 days*

TOTAL CLAIMS 14

If space insufficient, attach list

OFFICE USE ONLY



GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Mag -1,300 E.M. 500 Number of Readings E.M. 500, Mag 1,300  
Station interval Mag- 50' E.M. 100' Line spacing 400'  
Profile scale E.M. 1" = 20%  
Contour interval Mag 200 gammas

MAGNETIC

Instrument Exploranium G 816 proton magnetometer  
Accuracy - Scale constant 1 gamma  
Diurnal correction method proportional distribution  
Base Station check-in interval (hours) 2:00hrs  
Base Station location and value B.L. 0+00

ELECTROMAGNETIC

Instrument Geonics EM 16  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy 1%  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency V.L.F NSS 21.4 khz  
(specify V.L.F. station)  
Parameters measured In phase & quadrature

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 \_\_\_\_\_

Kelvin Twp. M.964

THE TOWNSHIP  
OF 2.3179  
**CHURCHILL**

DISTRICT OF  
SUDBURY

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

**DISPOSITION OF CROWN LANDS**

- PATENT, SURFACE AND MINING RIGHTS ●
- " , SURFACE RIGHTS ONLY ○
- " , MINING RIGHTS ONLY ⊙
- LEASE, SURFACE AND MINING RIGHTS ■
- " , SURFACE RIGHTS ONLY □
- " , MINING RIGHTS ONLY ▣
- LICENCE OF OCCUPATION ▼
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

**NOTES**

400' Surface Rights Reservation along the shores of all lakes & rivers.

**SAND & GRAVEL**

④ MTC PII No. 1487

**DATE OF ISSUE**

JAN - 9 1980

**SURVEYS AND MAPPING  
BRANCH**

PLAN NO. - **M.719**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

Connaught Twp. M.730

Macmurchy Twp. M.842

Asquith Twp. M.637



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Churchill Twp. - M.719

THE TOWNSHIP OF 2.3179

ASQUITH

DISTRICT OF SUDBURY

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND ● or ⊕
- 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.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED FOR S. R. O. ○

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

- |                          |                               |
|--------------------------|-------------------------------|
| SAND and GRAVEL          | RESERVES                      |
| ① MTC Pit 489            | ② MNR SRO Reserve File 163003 |
| ② MTC Gravel Pit No. 214 |                               |
| ③ Gravel Pit File 124425 |                               |

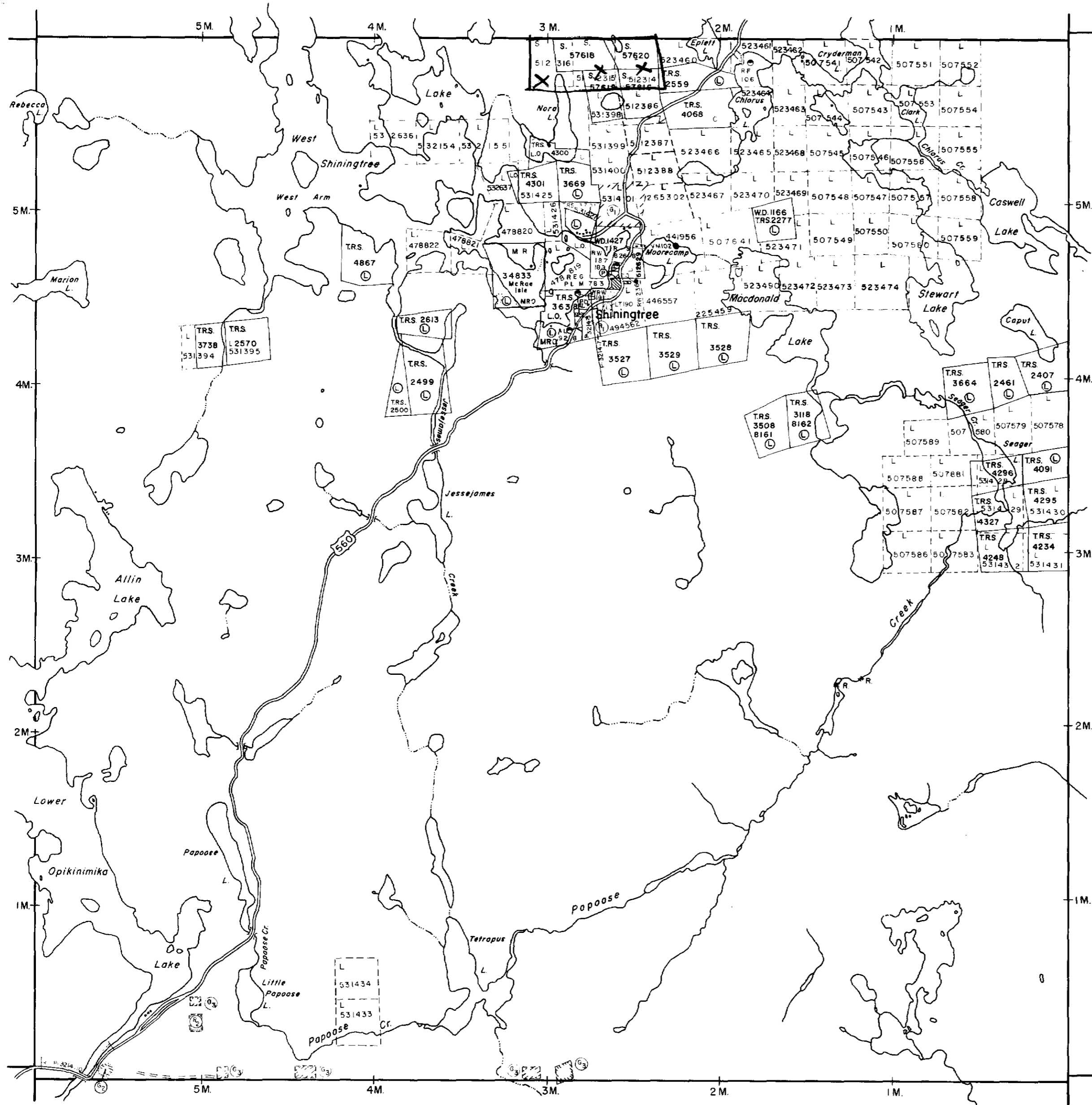
Areas withdrawn from staking under Section 3 of the Mining Act, R.S.O. 1970

Order No.	File	Date	Disposition
①	W.66/77	1967	S.R.O.

DATE OF ISSUE  
JAN - 9 1980  
SURVEYS AND MAPPING  
B...

PLAN NO.- M.637

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



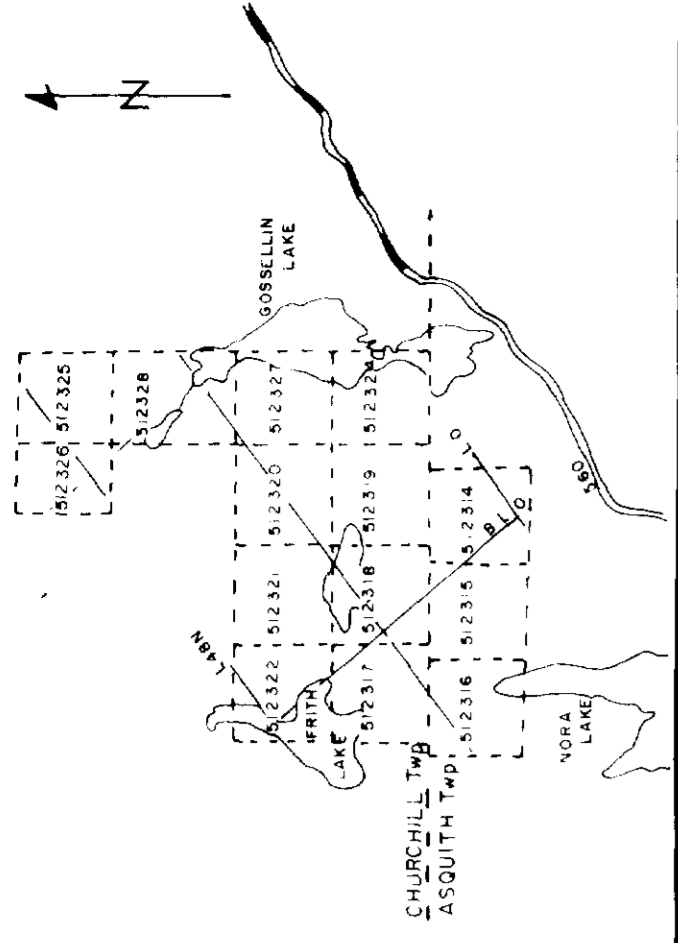
Miramichi Twp. - M.865

Fawcett Twp. - M.803

Sheard Twp. - M.1107



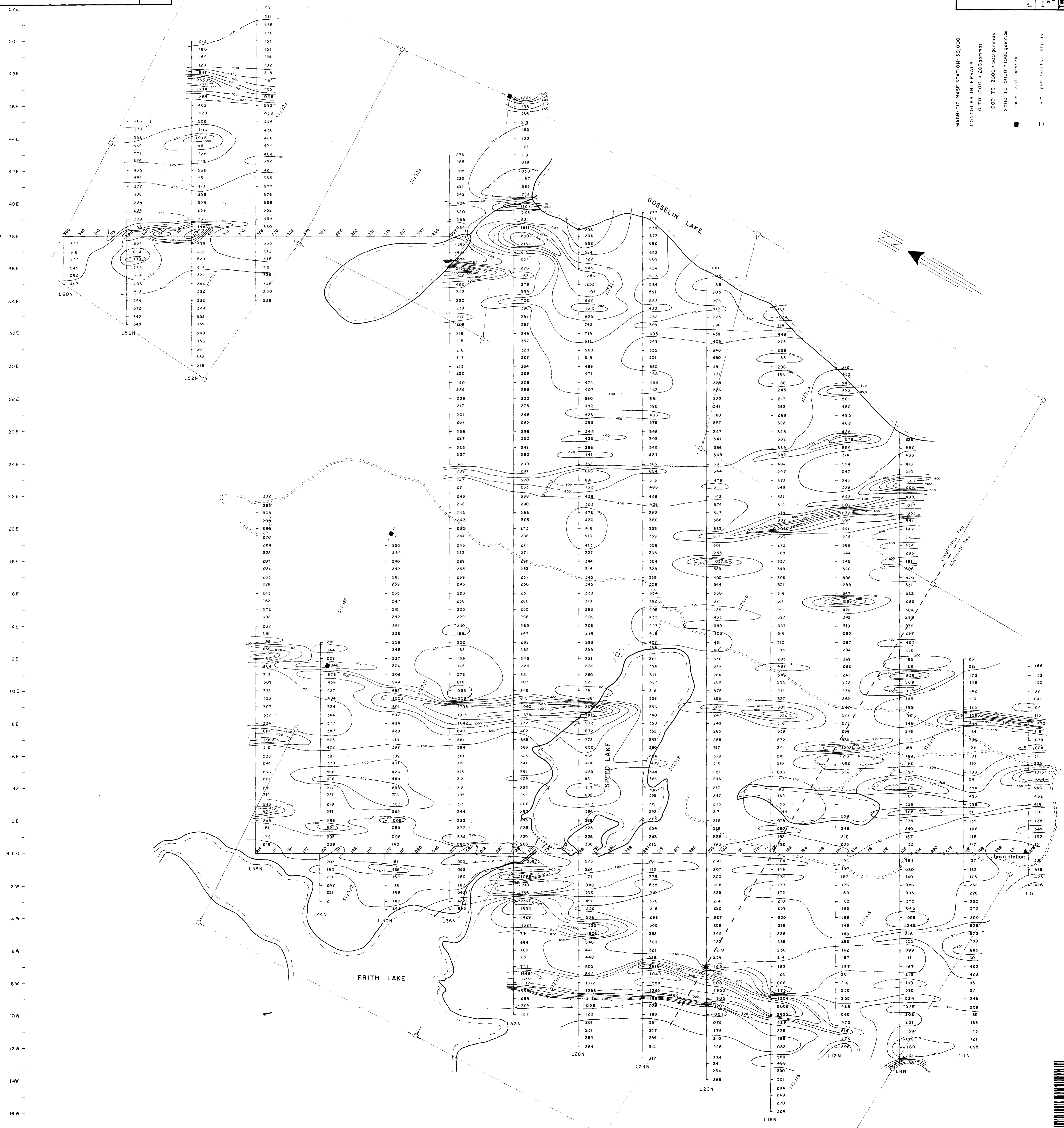
41P11SE052 2.3179 CHURCHILL



LOCATION PLAN  
OF  
SHINING TREE PROPERTY

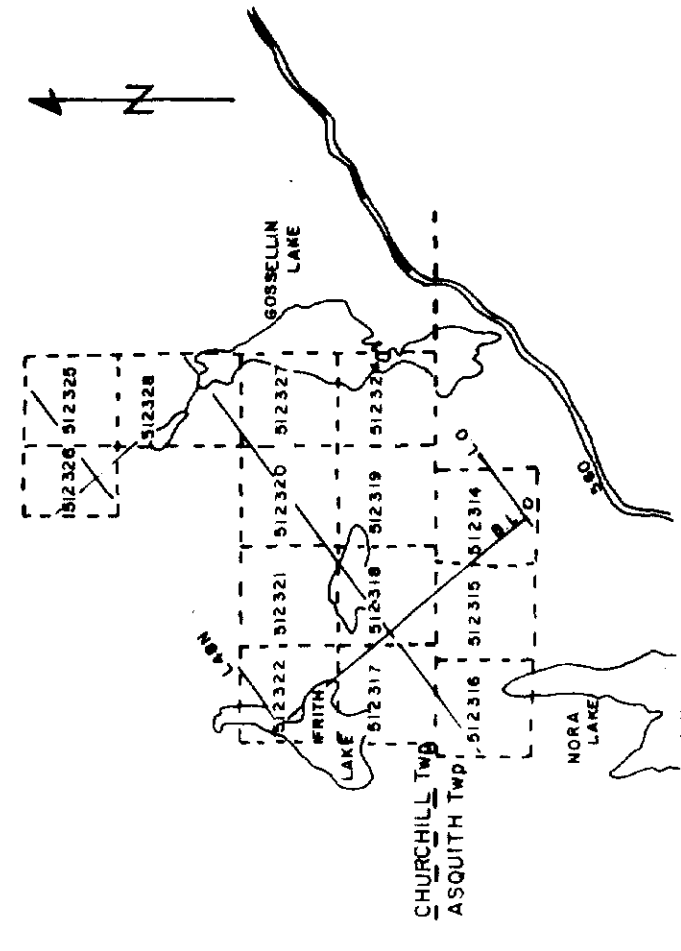
MAGNETOMETER SURVEY  
FOR  
MINES PATINO LTEE.

PROJECT: %  
SURVEYED BY: E.C. M.L.  
DRAWN BY: P.S.  
INSTRUMENTS: GEOMETRICS  
FRIDON & BIE  
DATE: DEC. 79  
SCALE: 1" = 2000'  
SERVICES: EXPLOSION SERVICES  
REGD.  
TWP. CHURCHILL



MAGNETIC BASE STATION: 59,000  
CONTOUR INTERVALS:  
0 TO 1000 = 200 gammas  
1000 TO 2000 = 500 gammas  
2000 TO 5000 = 1000 gammas  
100 m post location  
50 m post location

base station  
50 m post location  
100 m post location



LOCATION PLAN  
OF  
SHINING TREE PROPERTY

**ELECTROMAGNETIC SURVEY**  
FOR  
**MINES PATINO LTEE.**

PROJECT: \_\_\_\_\_  
SURVEYED BY: E.C. M.L. DATE: DEC. 79  
DRAWN BY: P.B. SCALE: 1:2000  
INSTRUMENT: EMIS Genies Limited  
SERVICES EXPLORATION SERVICES REG'D  
TWP. CHURCHILL

