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**MINING LANDS SECTION**

REPORT ON GEOPHYSICAL SURVEYS  
BLANCHETTE GROUP OF CLAIMS  
SHERATON AND TIMMINS TOWNSHIPS  
PORCUPINE MINING DIVISION  
PROVINCE OF ONTARIO

by

F.J. Evelegh

Johns-Manville Canada Inc.  
Exploration Department

November 17th, 1981  
Asbestos, Quebec



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List of Maps Accompanying this Report:

Electromagnetic Profile Plan - Scale:- 1" = 200'

Geo-Magnetic Profile Plan - Scale:- 1" = 200'

Legend Sheet

REPORT ON GEOPHYSICAL SURVEYS  
BLANCHETTE GROUP OF CLAIMS  
SHERATON AND TIMMINS TOWNSHIPS  
PORCUPINE MINING DIVISION  
PROVINCE OF ONTARIO

Introduction:

The following report describes the geophysical surveys completed during the latter part of 1981 on seven mining claims recorded in the name of Johns-Manville Canada Inc. and located in Sheraton and Timmins Townships, Porcupine Mining Division.

Cutting and chaining of picket lines were carried out by company employees working from the Matheson office.

Electromagnetic surveying was conducted by J. Goodger, Senior Geologist, assisted by M. Bruce. A McPhar vertical loop unit was used for this work.

Magnetometer surveying was carried out by K. Gray, Fieldman and geophysical operator with the company. A Fluxgate Model MF-1 unit was used for this survey.

Draughting, interpretation and compilation of the report were completed by personnel from both the Matheson and Asbestos offices.

Supervision of the field work was handled by R. Kaltwasser, Senior Fieldman. Interpretation of the data and compilation of the report were the responsibility of the writer, Exploration Manager with Johns-Manville Canada Inc., based at Asbestos, Quebec.

Property:

The claims surveyed are contiguous, are situated in Sheraton and Timmins Townships and are numbered P-579570-71, P-579581-82, P-579604-05 and P-618186. Acreage totals approximately 280.

Six of the claims were staked in early December of 1980 and recorded on the 12th. Claim P-618186 was staked on May 21st, 1981 and

Property: (Cont'd)

recorded on June 2nd. All claims have been transferred to Johns-Manville Canada Inc.

Location and Accessibility:

The Blanchette claims are situated along the east-west boundary between Sheraton and Timmins Townships with three located in the extreme south-east corner of the former and four claims in the north-east corner of the latter Township.

Access is provided by a gravel road (Gibson Lake) which branches off to the south from Highway No. 101 approximately eighteen miles west of Matheson (towards Timmins). This secondary road leads to Lipsett Lake, a distance of about seventeen miles from Highway No. 101. The property is located four miles north of Lipsett Lake and is reached by a sand road. This latter section is not passable during the winter months.

Topography:

The map area is generally low and swampy with several northwesterly trending sand and outcrop ridges reaching heights up to 50 feet above the creek elevation. Low-lying sections are timbered with alders, black spruce and balsam; the ridges with jackpine, birch and poplar.

Note that the extreme western part of the claims is sand-covered and forms a northerly-trending esker having occasional low outcrops.

Drainage is poor and sluggish with a few narrow run-off streams flowing eastwards towards Kasba Creek.

Previous Work:

In 1911, the Ontario Bureau of Mines published a report with accompanying maps, compiled by A.G. Burrows, entitled "The

Previous Work: (Cont'd)

Porcupine Gold Area". This was the Twentieth Annual Report, Part II.

The Twenty-third Annual Report, Part III, of the Ontario Department of Mines was published in 1924 and contained a section and map covering "The Night Hawk Lake Gold Area" as compiled by P.E. Hopkins.

In 1942 the Ontario Department of Mines published a report and map, compiled by L.G. Berry entitled "Geology of the Langmuir-Sheraton Area". This was the Forty-ninth Annual Report, Part IV.

More recently, 1971, Geological Report 96, entitled "Geology of the Night Hawk Lake Area, District of Cochrane", as compiled by E.J. Leahy was published by the O.D.M. Map No. 2222 accompanies this report.

Map No. 2205 - The Timmins-Kirkland Lake Sheet of the Geological Compilation Series on a scale of one inch equals four miles covers the property.

Sheraton Township is also shown on Ontario Geological Survey Preliminary Map P.2074 of the Timmins Data Series, issued in 1980.

Aeromagnetic Maps on scales of one inch equals four miles and one-half mile have been published jointly by the O.D.M.-G.S.C.

All of the previously-listed reports and maps are on file in the Company library and have been used extensively during our exploration work in the Night Hawk Lake Area.

The following data on the Blanchette claims was obtained from the Resident Geologist's office at the Ministry of Natural Resources in Timmins -

- 1) Geological Report and Map for Blanchette Porcupine Gold Mines Ltd. - undated.
- 2) Larouche and Morin Group - Magnetic, Electromagnetic and Geological Plans - dated 1977.

General Geology:

The following "Table of Formations" has been taken from Page 7 of the Report on the Geology of the Night Hawk Lake Area compiled by E.J. Leahy :

Table of Formations

Cenozoic:

Recent                    Lake, stream, and swamp deposits  
Pleistocene:            Till, sand and gravel, varved clay

Unconformity

PRECAMBRIAN:

Proterozoic:

Younger Mafic Intrusive Rocks (Keweenawan?)  
Diabase

Intrusive Contact

Mafic Intrusive Rocks (Matachewan?)  
Diabase, porphyritic diabase.

Intrusive Contact

Archean:

Extremely Altered Rocks  
Chlorite-carbonate schist, talc-chlorite-carbonate schist,  
chlorite-sericite-quartz schist, serpentine schist,  
carbonate rock.

Gradational and Fault Contacts

Felsic Intrusive Rocks  
Biotite granite, quartz-feldspar porphyry, feldspar  
porphyry, syenitic, aplitic, and felsitic dikes.

Intrusive Contact

Younger Sedimentary Rocks  
Greywacke, conglomerate, argillite, slate

Unconformable Contact

Mafic and Ultramafic Intrusive Rocks  
Serpentinized peridotite and dunite, diorite,  
carbonatized ultramafic rocks

General Geology: (Cont'd)

Intrusive Contact

Metasediments and Tuffaceous Metasediments

Graphitic metasediments, argillite, slate, greywacke, conglomerate, tuffaceous rocks.

Facies Change and Interfingering Contact

Intermediate to Felsic Metavolcanics

Rhyolite, rhyodacitic rocks, agglomerate, tuff, iron formation.

Conformable and Interfingering Contact

Mafic to Intermediate Metavolcanics

Massive and pillowed lava flows, spherulitic and amygdaloidal lavas, porphyritic lavas, volcanic breccia, tuffs and agglomerate, iron formation.

As part of the 1981 exploration program on the Blanchette claims, reconnaissance-type mapping of the topography and rock outcrops was conducted by R. Kaltwasser. A majority of the exposures were folded, sheared and highly altered-chloritic and talcose-intermediate volcanics. These have been intruded by narrow, hornblende syenite, quartz and quartz-feldspar porphyry dikes as well as several sizeable, northerly-trending diabase dikes.

Outcrops of an extremely magnetite-rich rock were mapped on claims P-579582 and 579571. This rock is comprised of coarse crystals of hornblende, large feldspars and contains blue quartz "eyes" having dimensions between 2 and 4 mm. - a basic porphyry ?

Line Cutting and Chaining:

Base line No. 1 was started from the steel pin at the No. 1 post of claim P-579582 on the Sheraton-Timmins Townships boundary and cut east and west to the outside claim corners. Right-angled offset lines, spaced at 400' intervals, were cut and chained to the north and south of this base line to cover the claims.

Line Cutting and Chaining: (Cont'd)

Base line No. 2 was started from the No. 1 post of claim P-618186 (being 1265' south of base line No. 1 on Line 0+00) and cut to the east for a length of 2,550 feet. Right-angled offset lines, spaced at 400' intervals were cut and chained to the south of this base line to the claim boundary.

Marked pickets were established every 100' along all offset and base lines by chainage.

Note that the ends of the picket lines were tied in by chaining along the north and south claim boundaries to increase the accuracy of the grid.

Total miles of base (1.2) and picket lines (6.1) cut and chained on the Blanchette claims was 7.3.

Electromagnetic Survey:

Electromagnetic surveying was conducted on the property by J. Goodger, assisted by M. Bruce. Both men are employed by Johns-Manville Canada Inc. and are based at Matheson.

Field work was carried out during the latter part of October 1981, using a McPhar vertical loop, reconnaissance electromagnetic unit operating on a frequency of 1,000 cycles per second.

The McPhar unit is suitable for use as both a reconnaissance and relatively detailed instrument. In this survey, the transmitter was held vertically at a distance of 200 feet from the receiver; the receiver was then tilted about the axis joining the two coils until a null was observed. Both transmitter and receiver were moved on the same picket line, 200 feet apart, and readings were recorded at 100' intervals. Under these operating conditions a depth penetration of 100 feet was attained. Note that the transmitter was stationed to the north of the receiver throughout the survey.



Electromagnetic Survey: (Cont'd)

Walkie-talkie units were used when required for proper communication between transmitter and receiver.

A total of 332 stations was recorded during the course of the survey.

The results of this work are shown on the accompanying Electromagnetic Profile Plan on a scale of one inch equals 200 feet. Profiles have been plotted on a scale of one inch equals 20°.

No crossovers of any significance were delineated by the electromagnetic survey. The weak (+1°, -1°) crossover on line 8+00W, claim P-618186 is due to a hill effect.

Magnetometer Survey:

A magnetometer survey was conducted on the property by K. Gray during the latter part of October 1981. Readings were recorded using a Fluxgate unit - Model MF-1, Serial No.409107 - having sensitivities of 20, 50, 200, 500 and 2,000 gammas as per division for the corresponding scales.

Prior to the survey the instrument had been checked and adjusted so that a gamma value of 1,220 corresponds closely with an absolute value of 57,599±15. Munro-Beatty sill base station No. 2 was used for this purpose.

Base control stations were established on the grid as follows:

B.C.S. No. 1 - on B/L No. 1 at 16+00E, Value - 2690g.

B.C.S. No. 2 - on B/L No. 1 at 0+00 , Value - 3300g.

B.C.S. No. 3 - on B/L No. 2 at 0+00 , Value - 1900g.

During the course of the survey the base control stations were observed at two-hour intervals as a check on the working condition of the instrument and to record the daily diurnal variation.

Magnetometer Survey: (Cont'd)

Stations were spaced at 50' intervals - 25' where additional detail was required - along the grid lines and a total of 799 was recorded during the course of the survey.

The results of the survey are shown on the accompanying Geomagnetic Profile Plan on a scale of one inch equals 200 feet. Profiles have been plotted on a scale of one inch equals 4,000 gammas.

All available geological and geophysical data (listed previously) had been reviewed and air photos studied prior to compiling this report. The results of the reconnaissance geological mapping and prospecting carried out by R. Kaltwasser on the Blanchette group have been of great value for the interpretation of the magnetometer survey.

The claims surveyed are underlain by intermediate meta-volcanics intruded by a sizeable porphyry body and several diabase dikes. Strike of the altered volcanics is in a general east-west direction, dips are moderately to steeply north and northeasterly. Magnetic readings range in value from 1,500 to 3,500 gammas, the average is 2,000 to 2,500. Variation in the intensity is due to the degree of alteration (talc, chlorite) of the volcanics and the proximity of the magnetite-rich porphyry intrusive.

Gamma values over the porphyry vary from 3,000 to over 8,000 with the average being in the order of 4,000 to 5,500. This intrusive strikes in a northwesterly direction, has a width of 1,800 feet in the western part of the property and appears to be fingering abruptly to the south-east. On the Government Aero-Magnetic maps this intrusive has a pronounced elliptical shape, trends northwest-southeast and has an approximate length and width of 5,500 and 2,500 feet, respectively.

Several northerly and northwesterly-trending diabase dikes have been mapped on the claims. These dikes range in width from 60 to

Magnetometer Survey: (Cont'd)

400 feet and may extend along strike for several thousands of feet. On the accompanying plan, all of the dikes shown were indicated by the out-crop mapping. Magnetic intensity of the diabase falls in the mid-2,000's with the exception of the large dike in the south-east corner of the property where values reach 8,750 gammas adjacent to the magnetite-rich porphyry.

No prominent structural features have been delineated by the magnetometer survey.

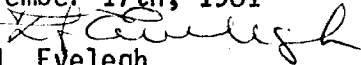
Conclusions and Recommendations:

No conducting zones have been delineated on the Blanchette claims by the electromagnetic survey.











The magnetometer work has outlined a sizeable, magnetite-rich porphyry intrusive trending in a northwesterly direction across the property.

Further work is recommended for this group and, initially, should comprise detailed geological mapping, prospecting - within and along the contacts of the intrusive - and diamond drilling of any significant discovery zones.






Submitted: November 17th, 1981

by:   
F.J. Evelegh  
Exploration Manager

## GEOLOGICAL LEGEND

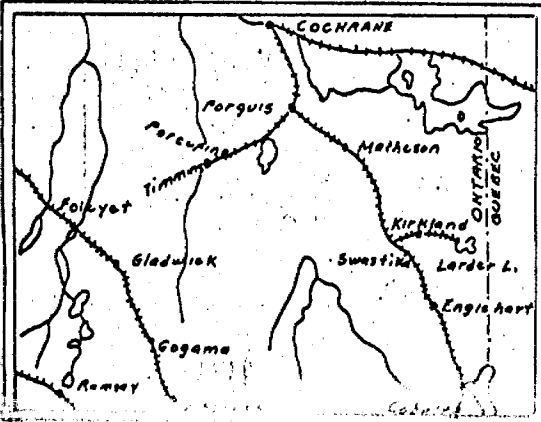
-  Quartz diabase, diabase.
-  Granite 5a, Syenite 5b, Feldspar porphyry 5c, Quartz feldspar 5d, Felsite 5e, Lamprophyre 5f.
-  Diorite 4a, Gabbro diabase 4b, Breccia 4c
-  Peridotite & Dunite (Serpentinized) (Asb. - Asbestos recognized)
-  Pyroxenite 4d.
-  Rhyolite fragmental lava
-  Andesite basalt pillow lava 2a, Diabasic lava 2b, Spherulitic lava 2c, Fragmental lava 2d, Tuff & chert 2e, Talc-chlorite schist 2f.
-  Greywacke 1a, Arkose 1b, Quartzite 1c, Argillite or shale 1d, Conglomerate 1e, Iron formation 1f, Chlorite schist 1g.
-  Carbonate rock
-  Quartz veins

## GEO-MAG SYMBOLS









-  Contour interval 500 gammas
  -  Magnetic Base Control Station
  -  Geological Contact
  -  Fault Zone
  -  Mag. Profile
- G- Geological  
 M- Magnetic  
 T- Topographic

JOHNS MANVILLE CANADA INC.

LOCATION SKETCH - 1" = 50 Miles






## TOPO-SYMBOLS


-  Outcrop
-  Higher ground
-  Scarp
-  Muskeg or Swamp
-  Creek
-  Drill hole
-  Bush road
-  Direction in which lava flows face, indicated by shape of pillows

## ELECTRO-MAG SYMBOLS



### GEONICS 15 UNIT

-  Conductive Zone (Red)
  -  Magnetic Conductor (Blue)
  -  Nil
- Scale - 20 units = 1 inch  
 West & South - Pos. (Red)  
 East & North - Neg. (Blue)


Scale - 40 units = 1 inch

-  Conducting Zone - S - Strong, M - Medium, W - Weak

### RONKA H.L. UNIT

-  In phase curve
  -  Out phase curve
- NPCS Not proper coil spacing  
 East - Positive. West - Negative

### M'PHAR V.L. UNIT

-  Dip angle profile
- North & East - Positive  
 South & West - Negative

Geol. Survey by -  
 Mag. Survey by -  
 E.M. Survey by -

CANADIAN JOHNS-MANVILLE CO. LTD.  
 MATHESON MUNRO MINE ONTARIO

LEGEND SHEET  
 PROVINCE OF ONTARIO

SCALE

DATE NOV 17 1981

DRAWN - MB.

TRACED

APPROVED - F.J.E. *[Signature]*



Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL  
TECHNICAL DATA



42A07NE0227 2.4500 SHERATON

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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 Sheraton and Timmins

Claim Holder(s) Johns-Manville Canada Inc.

Survey Company \_\_\_\_\_

Author of Report F.J. Eveleigh

Address of Author Box 1500, Asbestos, Quebec J1T 3N2

Covering Dates of Survey April 30 - November 17, 1981  
(linecutting to office)

Total Miles of Line Cut 7.3

**MINING CLAIMS TRAVERSED**  
List numerically

P	-	579581
(prefix)		(number)
P	-	579582
P	-	579570
P	-	579571
P	-	579604
P	-	579605
P	-	618186

If space insufficient, attach list

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	<u>20</u>
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

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

DATE: Jan. 20/82 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 63.1067

**Previous Surveys**

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 7

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Mag - 799; E.M. - 332 Number of Readings Mag.-831;E.M. -340
Station interval Mag - 25' & 50'; E.M. - 100' Line spacing 400'
Profile scale Mag - 1" = 4,000 g; E.M. - 20° = 1"
Contour interval

MAGNETIC

Instrument Fluxgate Magnetometer - Model MF-1, Serial #409107
Accuracy - Scale constant see attached photocopy
Diurnal correction method all readings corrected to value of Base Station #1.
Base Station check-in interval (hours) 2 hours
Base Station location and value #1 - 16+00E on B/L #1 - 2690g; #2 - 0+00 on B/L #1.-
3300g; #3 - 0+00 on B/L #2 - 1900g.

ELECTROMAGNETIC

Instrument McPhar Dual Frequency Electromagnetic Unit - Serial #30-6507
Coil configuration Vertical
Coil separation 200'
Accuracy
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1,000 cps (specify V.L.F. station)
Parameters measured Dip angle and width of null.

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method Time Domain Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

**SELF POTENTIAL**

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

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

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

**RADIOMETRIC**

Instrument \_\_\_\_\_

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

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

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

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

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

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

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

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

Additional information (for understanding results) \_\_\_\_\_

**AIRBORNE SURVEYS**

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

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

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

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

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

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

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

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SAMPLE PREPARATION**  
(Includes drying, screening, crushing, ashing)

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

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ANALYTICAL METHODS**

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

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

Others \_\_\_\_\_

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

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

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

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

Field Laboratory Analysis

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

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

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

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

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

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

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

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

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

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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2.4500

1983 09 07

2.4500

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

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer)  
Survey on Mining Claims P 579581 et al in the  
Townships of Sheraton and Timmins.

---

The Geophysical (Electromagnetic & Magnetometer) Survey assessment work credits as shown on the attached statement have been approved as of the above date.

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

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

D. Kinvig:sc

Encls:

cc: Johns-Manville Canada Inc  
Matheson, Ontario

cc: Resident Geologist  
Timmins, Ontario



Ontario

Ministry of Natural Resources

# Technical Assessment Work Credits

File  
2.4500

Date  
1983 08 31

Mining Recorder's Report of Work No.

Recorded Holder  
JOHNS-MANVILLE CANADA INCORPORATED

Township or Area  
SHERATON & TIMMINS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ 20 _____ days	P 579581-82
Magnetometer _____ 40 _____ days	579570-71
Radiometric _____ days	579604-05
Induced polarization _____ days	618186
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

Empty box for special credits under section 77 (16).

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

not sufficiently covered by the survey       Insufficient technical data filed

Empty box for no credits allowed.

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;



P-579570  
Q14500

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

**RECEIVED**

DEC 21 1981

**MINING LANDS SECTION**

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: December 7, 1981

Recorded holder: Johns-Manville Canada Inc.

Address: Box 1500,  
Asbestos, Quebec. J1T 3N2

Township or Area: Sheraton & Timmins Township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	P-579581 to 582 Incl. P-579570 to 571 incl. P-579604 to 605 incl. P-618186
Electromagnetic <u>20</u> days	
Magnetometer <u>40</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>?? 19</u> ( ) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	<i>See Revised work statement</i>
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.

*[Signature]*  
Regional Mining Recorder

c.c. Johns-Manville Canada Ltd.

Mining Lands Comments

*you wanted to see again*

To: Geophysics *Mr Barlow*

Comments

Approved  Wish to see again with corrections

Date *July 26/83* Signature *Douglas H. Patch*

To: Geology - Expenditures

Comments

Approved  Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

*C.D.*

Approved  Wish to see again with corrections

Date Signature

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

1982 12 24

2.4500

Johns-Manville Canada Incorporated  
Asbestos, Quebec.  
JIT 3N2  
Attention: Mr. F.J. Evelegh

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer) Survey  
submitted on Mining Claims P 579581 et al in the  
Townships of Sheraton and Timmins.

---

Enclosed is the EM map (in duplicate) for the above mentioned  
survey. Please plot the raw data at each station point and  
return the maps to this office.

Would you also provide a key map showing the location of the  
property with respect to township boundaries.

For further information please contact Mr. F.W. Matthews at  
416/965-1380.

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

Encls:

cc: Mining Recorder  
Timmins, Ontario



Mining Lands Comments

- EM map has no readings.

To: Geophysics

Mr Barlow.

Comments

- Key map needed  
- EM maps need raw readings plotted

Approved

Wish to see again with corrections

Date Dec 29/82

Signature Ryan Blw

To: Geology - Expenditures

Comments

Approved  Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

LD

Approved  Wish to see again with corrections

Date

Signature

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

February 9, 1982

2.4500

Office of the 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 and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P.579581 et al, in the Townships of Sheraton and Timmins.

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

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

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

J. Skura/bk

cc: Johns-Manville Canada Inc.  
Asbestos, Quebec  
Attention: F.J. Eveleigh



# Johns-Manville Canada Inc.

Division de la fibre d'amiante  
Asbestos Fibre Division

Asbestos, Québec J1T 3N2  
Canada  
Téléphone: 819-879-5431  
Telex: 05-836157

**RECEIVED**

JAN 21 1982

**MINING LANDS SECTION**

VIA REGISTERED MAIL

January 20, 1982

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617  
Whitney Block, Queen's Park  
Toronto, Ontario, K7A 1W3

Dear Sir:

Enclosed find "Report and Maps" in duplicate, covering geophysical surveys completed on mining claims held by this company in Sheraton and Timmins Townships.

Special Provision form is attached.

Note that "Report of Work" forms covering these surveys have been filed with the Mining Recorder in Timmins.

Yours very truly,

F.J. Eveleigh  
Exploration Manager

cc: Mr. W. Good, Mining Recorder, Timmins, Ontario  
J.M. Sharratt - Denver  
G. McDonald - Denver  
M. Bruce - Matheson

file

encls.



**SPECIFICATIONS OF  
FLUXGATE MAGNETOMETER  
MODEL MF-1**

<b>Ranges:</b>	Plus or minus — 1,000 gammas f. sc. 3,000     " 10,000   " 30,000   " 100,000   "
	Sensitivity 20 gammas/div. 50     " 200   " 500   " 2,000   "
<b>Meter:</b>	Taut-band suspension 1000 gammas scale 1 7/8" long — 50 div. 3000 gammas scale 1 11/16" long — 60 div.
<b>Accuracy:</b>	1000 to 10,000 gamma ranges ± 0.5% of full scale 30,000 and 100,000 gamma ranges ± 1% of full scale
<b>Operating Temperature:</b>	—40°C to +40°C —40°F to +100°F
<b>Temperature Stability:</b>	Less than 2 gammas per °C (1 gamma /°F)
<b>Noise Level:</b>	Total 1 gamma P-P
<b>Long Term Stability:</b>	± 1 gamma for 24 hours at constant temperature
<b>Bucking Adjustments: (Latitude)</b>	10,000 to 75,000 gammas by 9 steps of approximately 8,000 gammas and fine control by 10 turn potentiometer. Convertible for southern hemisphere or ± 30,000 gammas equatorial.
<b>Recording Output:</b>	1.7 ma per oersted for 1000 to 100,000 gamma ranges with maximum termination of 15,000 ohms.
<b>Response:</b>	DC to 5 cps (3db down)
<b>Connector:</b>	Amphenol 91-MC3F1
<b>Batteries:</b>	12 x 1.5V-flashlight batteries "C" cell type) (AC Power supply available)
<b>Consumption:</b>	50 milliamperes
<b>Dimensions:</b>	Instrument — 6 1/2" x 3 1/2" x 12 1/2" 165 x 90 x 320 mm Battery pack — 4" x 2" x 7" 100 x 50 x 180 mm Shipping Container — 10" dia x 16" 254 mm dia. x 410 mm
<b>Weights:</b>	Instrument — 5 lbs. 12 oz.     2.6 kg. Battery Pack — 2 lbs. 4 oz.   1.0 kg. Shipping — 13 lbs.           6.0 kg.



**SCINTREX LIMITED**  
79 Martin Ross Avenue, Downsview, Ontario, Canada

24500

	E.M.	Mag.
P- 579581	✓	✓
82	✓	✓
579570	✓	✓
71	✓	✓
579604	✓	✓
05	✓	✓
618186	✓	✓

D.K.

# SHERATON TOWNSHIP

ONTARIO

MINISTRY OF NATURAL RESOURCES PORCUPINE MINING DIVISION  
SURVEYS AND MAPPING BRANCH

DISTRICT OF COCHRANE

SCALE 40 CHAINS TO ONE INCH

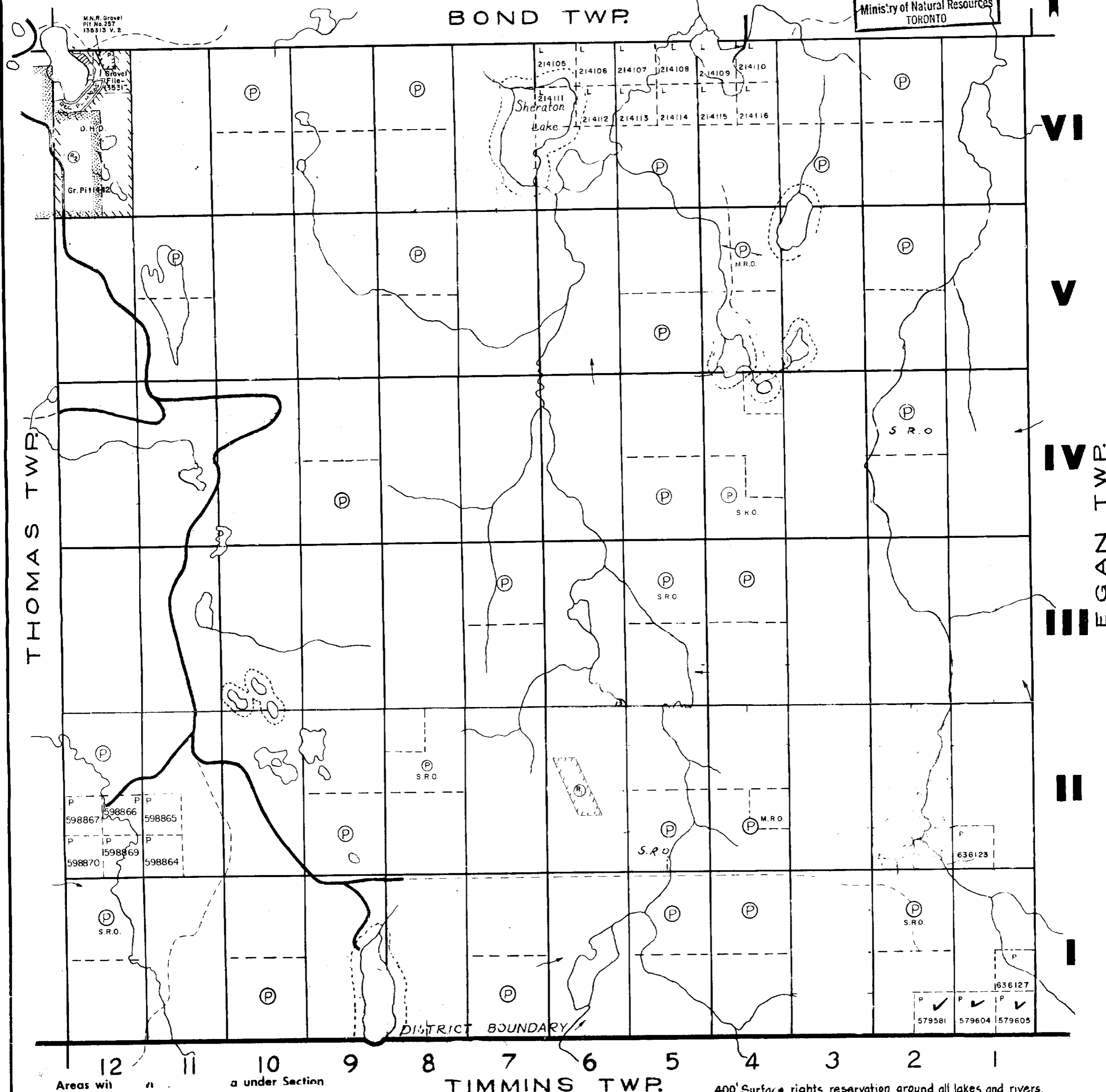
BOND TWP.

M 386

DATE OF ISSUE

NOV 29 1982

Ministry of Natural Resources  
TORONTO



THOMAS TWP.

VI

V

IV

III

II

I

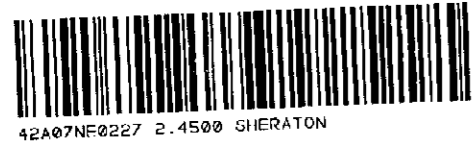
EGAN TWP.

DISTRICT BOUNDARY

TIMMINS TWP.

400' Surface rights reservation around all lakes and rivers.

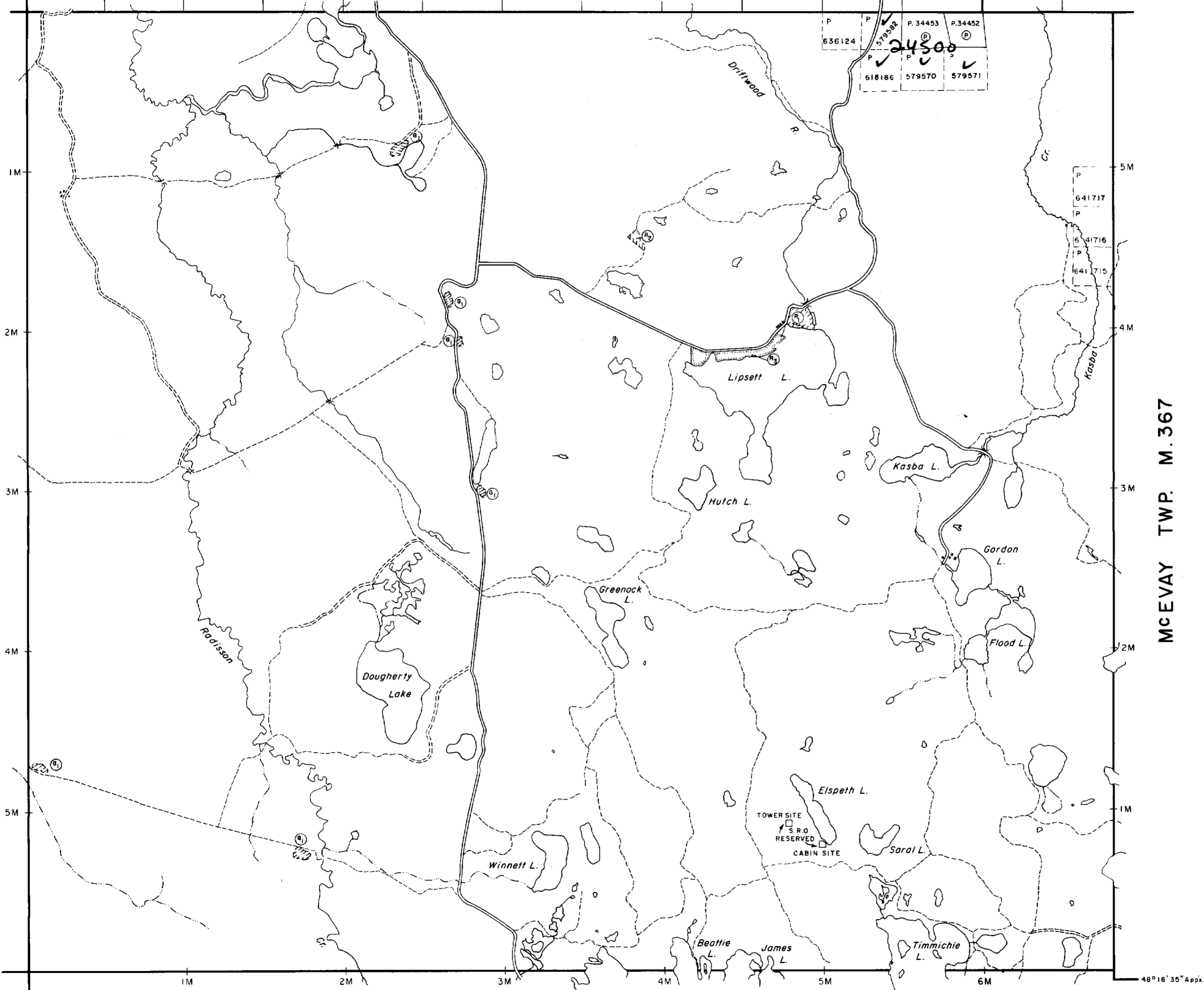
**LEGEND**  
PATENTED LANDS ..... (P)  
CROWN LAND SALES ..... (S)



SHERATON TWP. M. 386

EGAN TWP.  
M. 346

LOT 12 LOT 11 LOT 10 LOT 9 LOT 8 LOT 7 LOT 6 LOT 5 LOT 4 LOT 3 LOT 2 LOT 1 LOT 12



BLACKSTOCK TWP. M. 263

MCEVAY TWP. M. 367

MICHIE TWP. M. 301

NOTES

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

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970.

Order No.	File	Date	Disposition
① W. 67/77	192164	28/6/77	S.R.O.
② W. 86/77	188543	27/10/77	S.R.O.
③ W. 19/78	188543	10/10/78	S.R.O.

SAND and GRAVEL

④ Quarry Permit

DATE OF ISSUE  
NOV 29 1982  
Ministry of Natural Resources  
TORONTO

LEGEND

- PATENTED LAND (P) or ●\*
- PATENTED FOR SURFACE RIGHTS ONLY (P) or ●\*
- LEASE (L)
- LICENSE OF OCCUPATION (L.O.)
- CROWN LAND SALES (C.S.)
- LOCATED LAND (Loc.)
- CANCELLED (C.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- HIGHWAY & ROUTE NO. (17)
- ROADS (—)
- TRAILS (---)
- RAILWAYS (—+—)
- POWER LINES (—+—+—)
- MARSH OR MUSKEG (—+—+—)
- MINES (—+—+—)

\*used only with summer resort locations or when space is limited

TOWNSHIP OF  
**TIMMINS**

DISTRICT OF  
COCHRANE

PORCUPINE  
MINING DIVISION

SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

DR. C.V.T. PLAN NO. **M.314**  
DATE MARCH '71

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



42A07N6227 2.4500 SHERATON

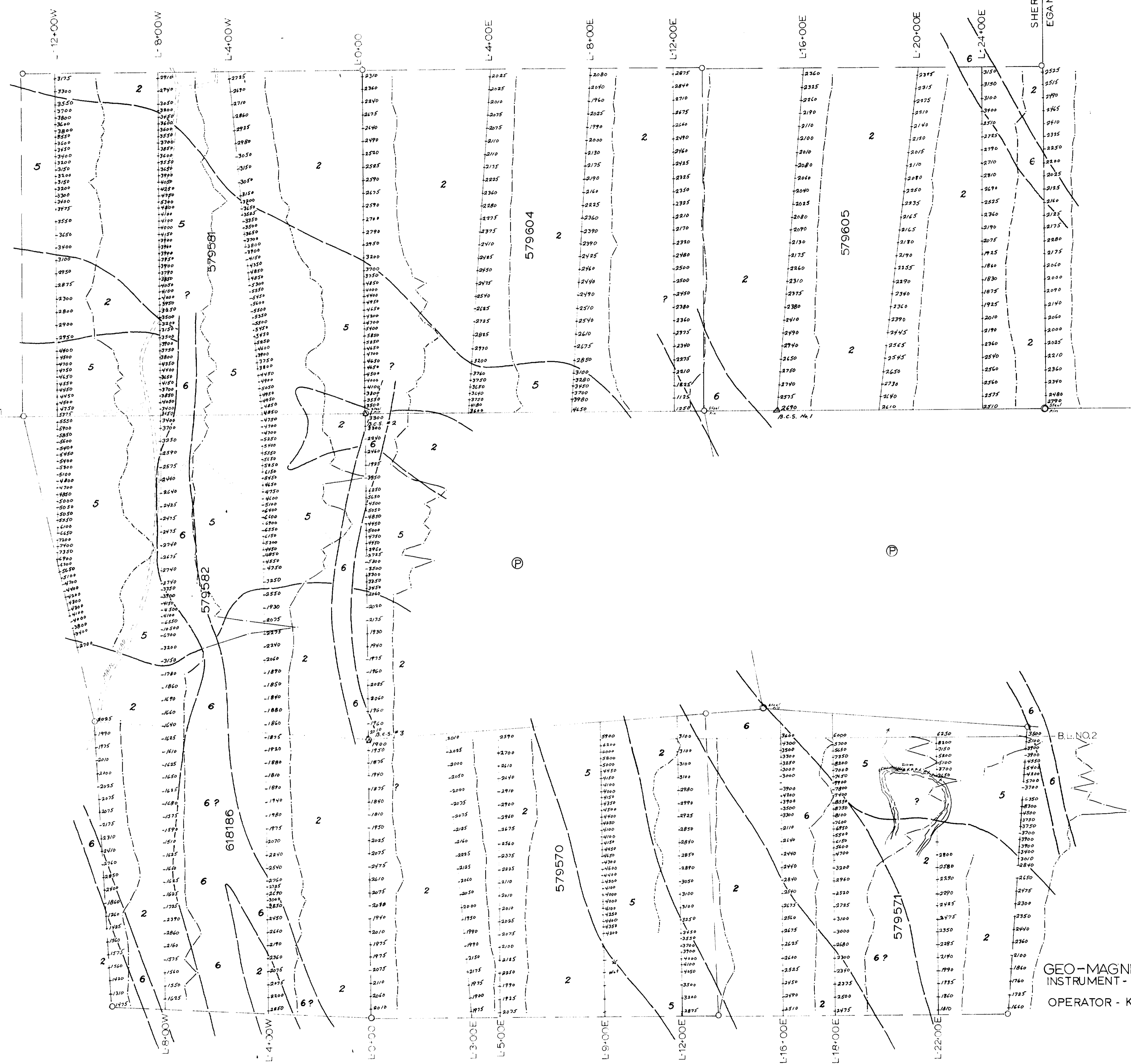
LOT 2

LOT 1

CON. 1

SHERATON TWP  
TIMMINS TWP

EGAN TWP



GEO-MAGNETIC PROFILE PLAN  
 INSTRUMENT - MF1 FLUXGATE MAGNETOMETER  
 SERIAL NO. 409107  
 OPERATOR - K. GRAY — PROFILE - 1"=4000g



CON. 1

SHERATON TWP  
TIMMINS TWP

LOT 2

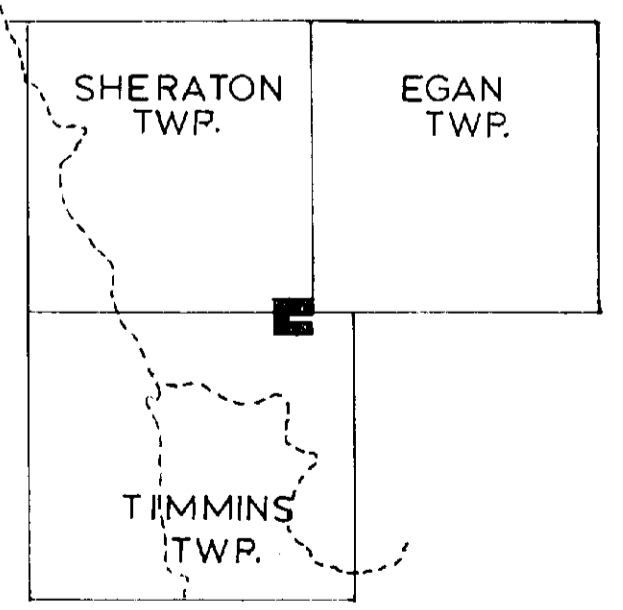
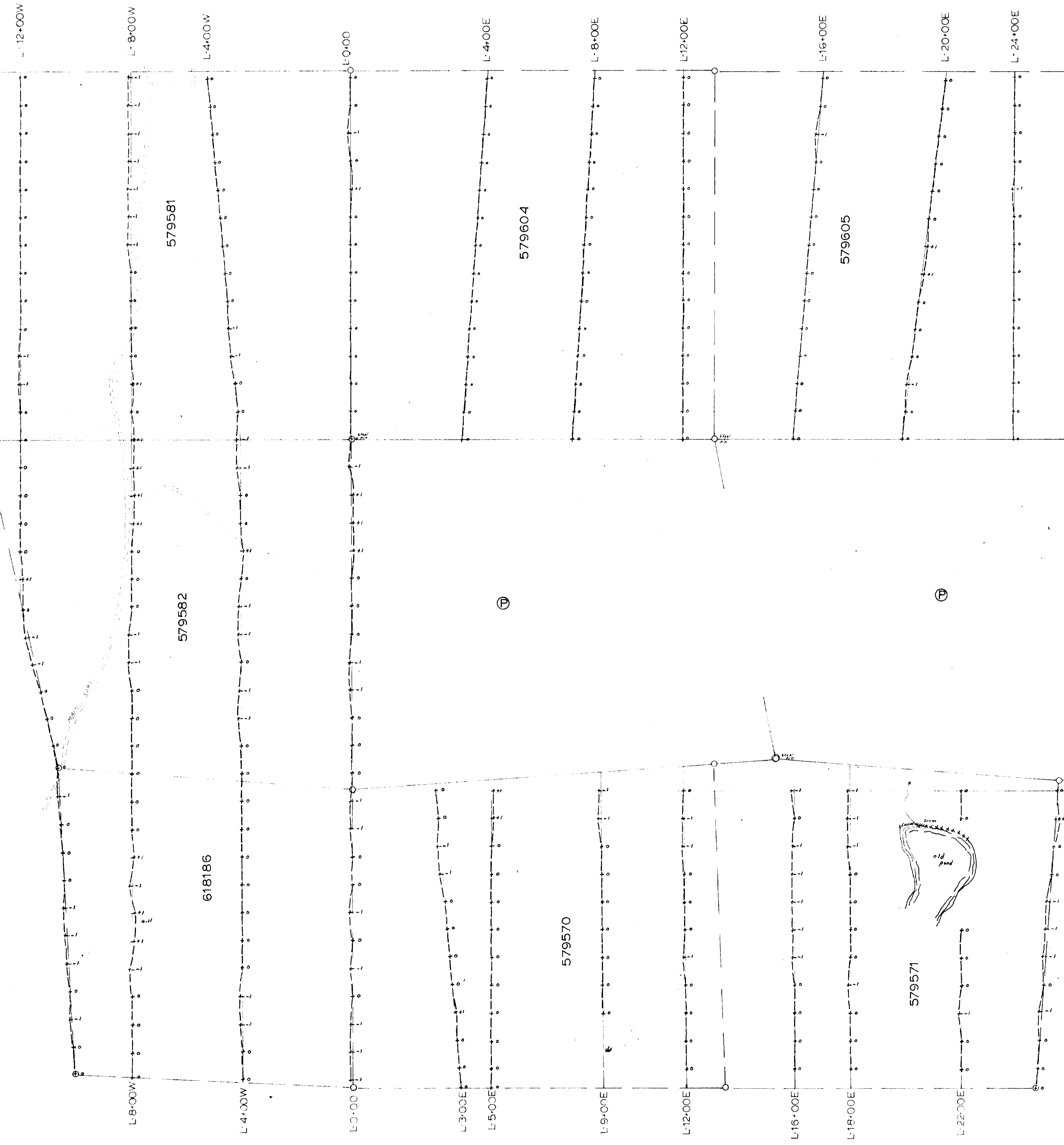
LOT 1

SHERATON TWP  
EGAN TWP

EGAN TWP

B.L. NO. 1

B.L. NO. 2



ELECTRO-MAGNETIC PROFILE PLAN  
 INSTRUMENT - McPHAR, RE.M. UNIT - SERIAL NO. 30-6507  
 INLINE METHOD - 200' SPACING - PROFILE 20" = 1"  
 OPERATOR - J. GOODGER

2.4500

REVISED

JAN 10 1983

NOV 17 1981 JOHNS MANVILLE CANADA INC.

ONT. 1:200

BLANCHETTE, GR., SHERATON & TIMMINS TWPS.

