

REPORT ON GEOPHYSICAL SURVEYS

DESTOR-PORCUPINE GROUP OF CLAIMS

HOLLOWAY TOWNSHIP

LARDER LAKE MINING DIVISION

PROVINCE OF ONTARIO

RECEIVED

DEC 1 4 1981

MINING LANDS SECTION

by

F.J. Evelegh

Johns-Manville Canada Inc. Exploration Department

November 2nd, 1981 Asbestos, Quebec

REPORT ON GEOPHYSICAL SURVEYS DESTOR-PORCUPINE GROUP OF CLAIMS HOLLOWAY TOWNSHIP LARDER LAKE MINING DIVISION PROVINCE OF ONTARIO

Introduction:

The following report describes the geophysical surveys completed during the fall of 1981 on four mining claims recorded in the name of Johns-Manville Canada Inc. and located in Holloway Township, Larder Lake Mining Division.

Cutting and chaining of picket lines were carried out by Company personnel based at the Matheson exploration office.

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

Magnetometer surveying was started by K. Gray, fieldman and geophysical operator with the Company. R. Kaltwasser completed the work. A Fluxgate model MF-1 unit was used for the survey.

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

Supervision of the field work was handled by R. Kaltwasser. 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 situated in Holloway Township and form part of a twelve claim group. Numbers are L-579588 to L-579591 inclusive.

These claims were staked in mid-November, recorded on the 20th of November 1980 and transferred to Johns-Manville Canada Inc. in May 1981.

Total acreage is approximately 160.

Location and Accessibility:

The Destor-Porcupine property is located in the northeastern part of Holloway Township at a distance of about forty miles east of the Town of Matheson.

ocation and Accessibility: (Cont'd)

Ready access is provided by Highway No. 101 - Matheson to the Quebec border - which crosses the southerly two claims of the group. Tractor roads extend to the north and south from the highway to the claim boundaries.

Topography:

The area is generally flat and swampy with a low-lying clay ridge trending in an easterly direction across the central part of the property. Second growth poplar, jack pine and blasam grow on this ridge. The lower sections, to the north and south, are covered with alders and scattered spruce.

Drainage is by several small streams which flow south into the Mattawasaga (Teddy Bear) River.

Power stripping on the poplar ridge uncovered two outcrops of carbonate rock - the only bedrock exposures on the claims.

Previous Work:

Geological mapping by Government Geologists in the Lake Abitibi Area dates back to 1907 (Miller) with further work being carried out in 1919 (Knight et al) in 1925 (Gledhill) and in the period 1949 to 1953 (Satterly).

More recently - 1972-73 - L.S. Jensen, Geological Branch, Ontario Division of Mines, Timmins, mapped a block extending from Milligan, McCool, Michaud Townships on the west to the Quebec border. The north part of Holloway Township is included in this section.

High Resolution Aeromagnetic Maps (0.D.M. & G.S.C.) covering the area were issued in 1975.

Map No. 2205 - The Timmins-Kirkland Lake Sheet of the Geological Compilation Series, on a scale of one inch to four miles, covers the area in considerable detail.

In late 1979 the Ontario Geological Survey issued Preliminary Map P. 797 Holloway Township (Rev.) of the Kirkland Lake Data Series.

Previous Work: (Cont'd)

The chart on this map showed that Revere Mining Corporation had conducted a diamond drilling program on the Destor-Porcupine claims in 1960. These logs were obtained from the Resident Geologist's files in Kirkland Lake and have proved of great value in assessing the economic potential of the property.

Since acquisition of the claims group, by staking, in 1980, Johns-Manville has carried out power stripping, plugger work, drilling, blasting and hand mucking along the ridge of higher ground on claims L-579588 and 579589. This work was filed with the Mining Recorder in Kirkland Lake on November 16th, for assessment purposes. The geophysical programs described in this report were completed during the fall of 1981.

General Geology:

The geology of the north half of Holloway Township is described in the Sixty-Second Annual Report of the Ontario Department of Mines being Vol. LXII, Part 7, compiled by J. Satterly and published in 1954. The following "Table of Formations" has been taken from page 9 of this report.

Table of Formations

Cenozoic

Recent Peat: stream deposits.

Sand, gravel boulders; Pleistocene: varved clay.

Great unconformity

Precambrian

Quartz diabase. Keweenawan:

Intrusive contact

Quartz diabase, diabase. Matachewan:

Intrusive contact

Algoman Feldspar porphyry; felsite; lamprophyre

Intrusive contact

Pre-Algoman: Diabase, gabbro; peridotite and dunite (serpentinized);

pyroxenite.

Ceneral Geology: (Cont'd)

Intrusive Contact

Keewatin

Volcanics: Rhyolite; rhyolite agglomerate and tuff.
Andesite, basalt; pillow lava; diabasic lava; spherulitic lava; fragmental lava (flow breccia or agglomerate); tuff and chert; talc-chlorite schist; carbonate-chlorite schist.

Faulted contact

Sediments: Greywacke; slate; conglomerate; iron formation.

The Destor-Porcupine fault zone strikes in a general easterly direction across the central part of the property. This structure has been indicated by sheared and altered sediments-volcanics intersected in diamond drill holes. On the Johns-Manville claims the fault zone is marked by the highly carbonatized sediments? exposed by power stripping on claims L579588 and 579589.

As part of the 1981 exploration program on the Destor-Porcupine group a Geologic-Topographic Plan on a scale of one inch equals 200 feet was prepared. Both the field and office work were carried out by R. Kaltwasser. A copy of this map is enclosed with the Geophysical Report.

Line Cutting and Chaining:

A base line, striking S86°W, was started from the east boundary of claim L-579589 and was established along the right-of-way on the north side of Highway No. 101 to the western limit of the block.

Right-angled offset lines, spaced at 200' intervals, were cut and chained north and south to the claim boundaries. Marked pickets were established every 100' along these offset lines by chainage.

Total miles of base (0.51) and picket lines (7.16) cut and chained by Company personnel during March and April 1981 was 7.67.

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.

lectromagnetic Survey: (Cont'd)

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 foot 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.

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

A total of 380 stations was recorded during the course of the survey.

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

No crossovers and consequently no conducting zones were delineated by this work.

<u>Magnetometer Survey:</u>

A magnetometer survey was conducted on the property by R. Kaltwasser and K. Gray on October 20th, 21st and 22nd, 1981. Readings were recorded using a Fluxgate Magnetometer - 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 $^{\pm}$ 15. Munro-Beatty sill base control station No. 2 was used for this purpose.

Magnetometer Survey: (Cont'd)

Base control stations were established on the Destor-Porcupine grid as follows: -

B.C.S. No. 1 - on the base line at picket line 0+00 - value of 1490 gammas.

B.C.S. No. 2 - on the base line at picket line 16+00W - value of 1035 gammas.

During the course of the survey 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.

Stations were spaced at 50' invervals along the grid lines and a total of 749 were recorded during the course of the survey.

The results of the survey are shown on the accompanying Magnetometer 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) has been reviewed and air photos studied prior to compiling this report.

Magnetic readings over all but the extreme southeasterly part of the property are low and uniform. In general, these range in value from slightly over 1,000 to 1,250 gammas. This would be typical of the weakly magnetic, highly carbonatized sedimentary and volcanic formations occurring along the Destor-Porcupine fault zone.

The higher magnetic values, ranging from 1,300 to 2,900 gammas, which have been recorded along the grid lines in the southeast corner of claim L-579589 have been interpreted as being caused by an east-northeasterly trending basaltic or diabasic flow situated along the southerly contact of the Destor-Porcupine fault zone. Conclusions and Recommendations:

No conducting zones or magnetic anomalies have been delineated by the geophysical surveys completed on the Johns-Manville block. Further, no mineralization of economic significance was observed in the bedrock exposures on the claims or in the

onclusions and Recommendations: (Cont'd)

logs of holes drilled previously on the claims by Revere Mining Corporation.

It is therefore recommended that no further work be carried out on this group. However, gridding and a deep-penetration electromagnetic survey should be conducted over the remaining (overburden-covered) eight claims of the Destor-Porcupine group.

Submitted:

November 2nd, 1981

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by:

F.J. Evelegh

Exploration Manager





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Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE:

Geophysical (Electromagnetic and Magnetometer) Survey on Mining Claims L 579588 et al in the Township of Holloway.

The Geophysical (Electromagnetic and 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

A. Barrisc

cc: Johns-Mansville Canada Inc Asbestos, Quebec Attn: F.J. Evelegh

cc: Resident Geologist Kirkland Lake, Ontario



Technical Assessment Work Credits

File			
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Recorded Holder JOHNS MANVILLE CANA	DA LIMITED
Township or Area HOLLOWAY TOWNSHIP	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	L 579588 to 91 inclusive
Magnetometer days	•
Radiometric days	
Induced polarization days	
Section 86 (18) days	
Geological days	
Geochemical days	
Man days ☐ Airborne ☐	·
Special provision	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 86 (15a) for the following	mining claims
No credits have been allowed for the following mining o	laims
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:



Ministry of Natural Resources

Recording Office 4 Gov't Road East Kirkland Lake, Ontario P2N 1A2

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

of assessment work credits

RECEIVED

NOV 2 4 1981

MINING LANDS SECTION

Date of recording of work:	NOVEMBER 16, 1981							
Recorded holder:	JOHNS-MANVILLE CANADA INC.							
Address:	Box 1500, ADBESTOS, Quebec J1T 3N2							
Township or Area:	HOLLOWAY TOWNSHIP							
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	s credit per claim	Mining claims						
Geophysical Electromagnetic Magnetometer Radiometric Induced polarization	,	L 579588 to L 579591 inclusive						
Section 86 (18)	days							
Geological	days	t e e e e e e e e e e e e e e e e e e e						
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Notice to recorded holder:

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

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

Acting Mining recorder /bs

c.c. Johns-Manville Canada Inc. c.c. F. J. Evelegh, c/o Johns-Manville



1593 (81/10)

Ministry of Natural Resources

Geotechnical Report Approval

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To: Mini	ing Lands Section,	Room 6462, Whitney Block.	(Tel: 5-1	380)	\mathbf{O}	

1982 08 16 2.4413

Johns-Manville Canada Incorporated Asbestos Fibre Division Box 1500 Asbestos, Quebec J1T 3N2

Attn: F.J. Evelegh

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims L 579588 et al in the Township of Holloway

Enclosed is the E.M. map (in duplicate) for the abovementioned survey. In order to complete your submission we require the following information on these maps:

- a key map showing the location of the property with respect to township boundaries.
- the values of the readings taken at each station point must be shown, i.e. raw data.

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. Barrisc

Encle:

cc: Mining Recorder Kirkland Lake, Ontario received any 36/82

Geotechnical Report Approval





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٦.	Fo: Mining Lands !	Section, Room 6462, Whitney Block.	(Tel: 5-1380))/	

December 30, 1981

Office of the Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

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 L.579588 et al, in the Township of Holloway.

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

Whitney 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. Evelegh



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

December 7th, 1981

REGISTERED MAIL

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 Holloway Township:

Special Provision form is attached.

Note that "Report of Work" forms covering these surveys were filed with the Mining Recorder in Kirkland Lake on November 16th, 1981.

Yours very truly,

F.J. Evelegh

Exploration Manager

Haw logk

cc:

Mr. G. Koleszar - Mining Recorder - Kirkland Lake, Ontario

J.M. Sharratt - Denver

G. McDonald - "

M. Bruce - Matheson

File

Encls.

RECEIVED

DEC 1 4 1981

MINING LANDS SECTION

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Type of Survey(s)____

Township or Area__

Claim Holder(s)___

Survey Company_

Total Miles of Line Cut___

SPECIAL PROVISIONS

CREDITS REQUESTED

ENTER 40 days (includes

OFFICE USE ONLY

Author of Report F.J. Evelegh

Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

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

DAYS

per claim

40

REPORT EPORT NCLUSIONS ETC.	CEIVED EC 141981	LANDS SECTION
MINING CLAIMS List num		N N N N N N N N N N N N N N N N N N N
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TOTAL CLAIMS_	4	

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Magnetomet	er	Electromag	neticRadiometric			
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Geophysical

Johns-Manville Canada Inc.

7.7

Geophysical

-Electromagnetic-

Holloway

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

Covering Dates of Survey March 23 - November 2, 1981 (linecutting to office)

GEOPHYSICAL TECHNICAL DATA

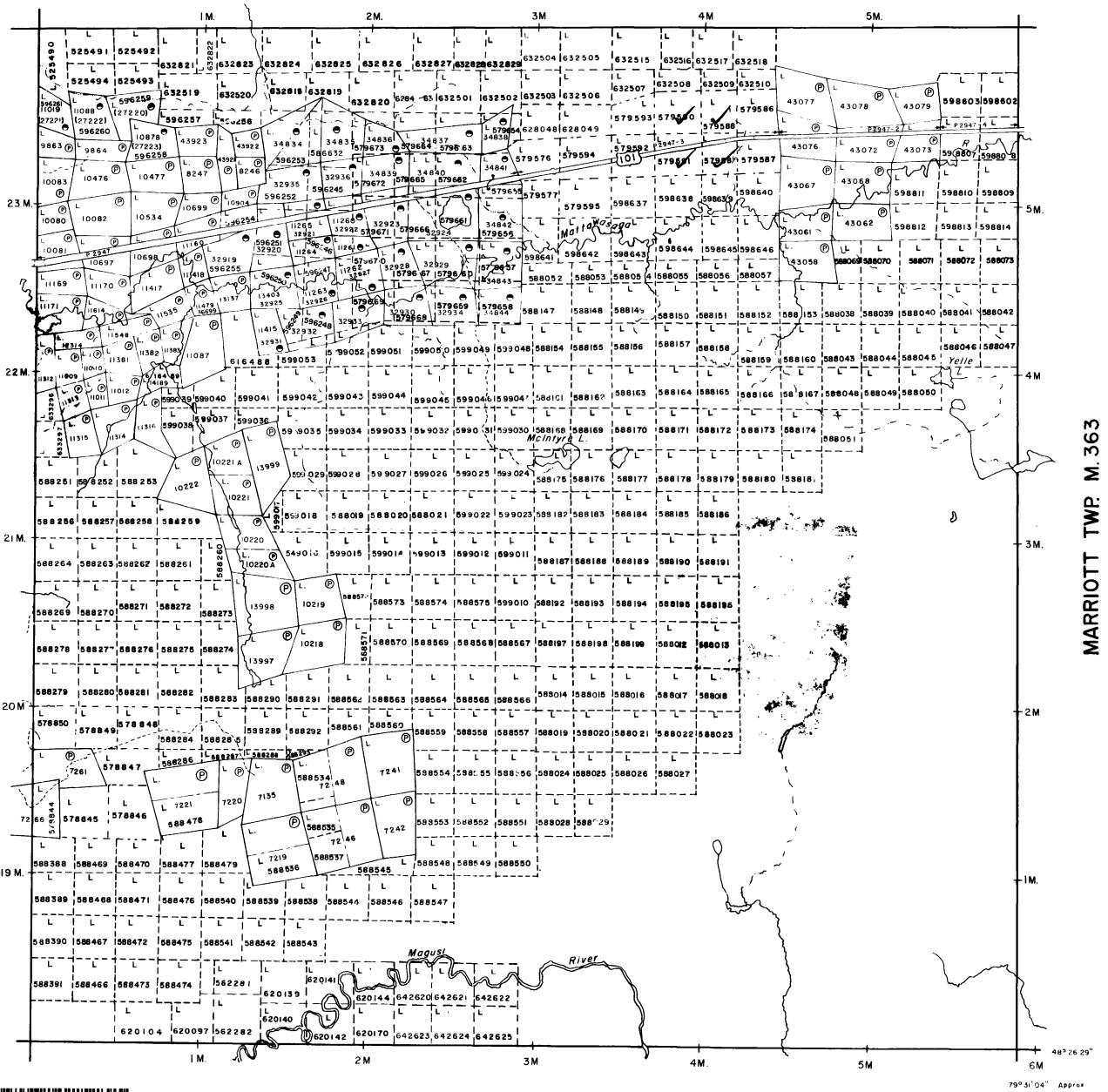
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INDUCED POLARIZATION

TOPO-SYMBOLS GEOL .. LEGEND (:::) Quartz diabase, diabase. Outcrop 55 Grante 5a, Syenite 5b, Feldspar porphyry 5c, 4114, 4114 Higher ground Quartz feldspar 5d, Felsite 5e, Lamprophyre 5f. ن ب Scarp Diorite 4a, Gabbro diabase 4b, Breccia 4e Muskeg or Swamp Peridotite & Dunite (Serpentinized) (Asb. - Asbestos recognized Creek Pyroxenite 4d. Drill hole Rhyolite fragmental lava Bush road Andesite basalt pillow lava 2a, Direction in which lava flows Diabasic lava 2b, Spherulitic lava 2c, face, indicated by shape of Fragmental lava 2d, Tuff & chert 2e, pillows Talc-chlorite schist 2f. Greywacke la, Arkose lb, Quartzite lc, 27 Argillite or shale ld, Conglomerate le, ELECTRO-MAG SYMBOLS Iron formation If, Chlorite schist lg. SEONICS 15 UNIT Carbonate rock △-- A Conductive Zone (Red) D--D Magnetic Conductor (Blue) Ouartz veins O-O Nil Scale - 20 units - 1 inch West & South - Pos. (Red) GEO-MAG SYMBOLS East & North - Neg. (Blue) Scale - 40 units = 1 inch @ 500 Contour interval 500 gammas Conducting Zone - N = Strong Medium 8cs*1 Magnetic Base Control Station RONKA H.L. UNIT --- Geological Contact In phase curve G- Geological o---o Out phase curve Fault Zone M- Magnetic NPCS | Not proper coil spacing T- Topographic ._._. Mag. Profile East - Positive. West - Negative MEPHAR V.L. UNIT +--+ Dip angle profile North & East - Positive South & West - Negative Geol. Survey by-Mag. Survey by COCATION SKETCH E.M. Survey by -CANADIAN JOHNS-MANVILLE CO. LTD. MATHESON MUNRO MINE ONTARIO LEGEND' SHEET PROVINCE OF ONTARIO SCALE DRAWN - MB. TRACED

NOV 0 2 1981

FRECHEVILLE TWP. M.348



HARKER TWP M.

TANNAHILL TWP. M. 390

NOTES

400 surface rights reservation along the shores of all

DATE OF ISSUE
OCT 25.1982
Ministry of Natural Resources TORONTO

LEGEND

PATENTED LAND	(P) or ●*
PATENTED FOR SURFACE RIGHTS ONLY	lacktriangle
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	
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	

*used only with summer resort1 cations or when space is !imited

TOWNSHIP OF

HOLLOWAY

2. 4413 COCHRANE

LARDER LAKE MINING DIVISION

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

DATE MARCH 72 PLAN NO

M. 356

ONTAKIO

MINISTRY OF MATURAL RESOURCES

STEVE SAME AND STORE BRANCE

200

579586 F 1.51.4 **5**79587 **5**79592

ELECTRO - MAGNETIC PROFILE PLAN
INSTRUMENT - Mc PHAR R.E.M. UNIT - SERIAL NO. 30-6507
INLINE METHOD - 200' SPACING - PROFILE 20"=1"
OPERATOR - J. GOODGER

7.

FRECHEVILLE

LOCATION PLAN 1"=4 MILES

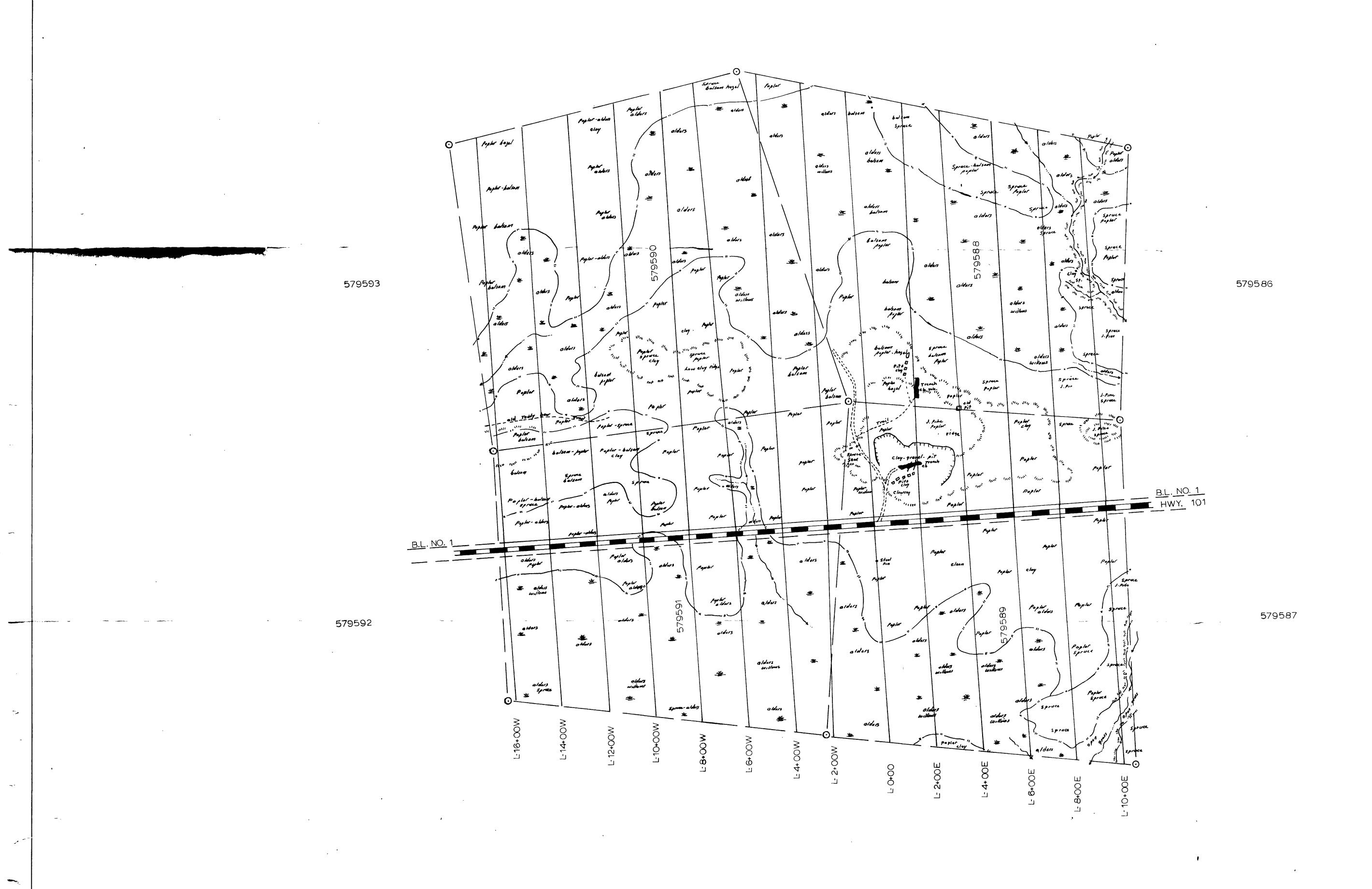
HOLLOWAY | MARRIOTT

NOV 0 2 1981 DESTOR-PORCUPINE GR. - HOLLOWAY TWP.

579586 579593 579587 579592

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

2.4413



32D12SE0042 2.4413 HOLLOWAY

GEOLOGY BY - R. KALTWASSER

2.4413

GEOLOGY & TOPOGRAPHIC PLAN JOE

JOHNS MANVILLE CANADA IN

DESTOR-PORCUPINE GR. - HOLLOWAY