



32D12SE0033 2.5343 HOLLOWAY

010

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

by

F.J. Evelegh

RECEIVED
JAN 12 1983
MINING LANDS SECTION

Johns-Manville Canada Inc.
Exploration Department

November 10th, 1982
Matheson, Ontario



32D12SE0033 2.5343 HOLLOWAY

010C

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List of Maps Accompanying this Report:

- Electromagnetic Profile Plan - Sheets 1 and 2 - Scale 1" - 200'
- Magnetometer Profile Plan - Sheets 1 and 2 - Scale 1" - 200'
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REPORT ON GEOPHYSICAL SURVEYS
DESTOR-PORCUPINE GROUP II CLAIMS
HOLLOWAY TOWNSHIP
LARDER LAKE MINING DIVISION
PROVINCE OF ONTARIO

Introduction:

The following report describes the geophysical surveys completed during April, 1982, on eight mining claims recorded in the name of Johns-Manville Canada Inc. and located in Holloway Township, Larder Lake Mining Division.

Note that two of the claims (L-579586 & 87) adjoin to the east of the four claims of the Destor-Porcupine Group while six of the claims (L-579592 to 95 incl. and L-579576-77) adjoin to the west. Geophysical surveys on the central four claims were submitted for assessment work and were described in a report dated November 2nd, 1981. Results of these previous surveys have been shown on the accompanying plans.

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

Electromagnetic surveying was conducted by K. Gray, fieldman and geophysical operator with the Company, assisted by R. Kaltwasser. A McPhar R.E.M. vertical loop unit was used for this work.

Magnetometer surveying was carried out by K. Gray, assisted by R. Kaltwasser, senior fieldman with Johns-Manville. A fluxgate model MF-1 unit was used for the survey.

Draughting, interpretation and compilation of the report were carried out by personnel from the Matheson office.

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 Matheson, Ontario.

Property:

The claims surveyed are situated in Holloway Township and form part of a twelve claim group. Numbers of the claims described in this report are L-579576-77 and L-579586-87-92-93-94-95.

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

Property: (cont'd)

Total acreage is approximately 320 acres.

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.

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, swampy and extensively clay-covered. Alders and scattered, stunted spruce were noted throughout the claims. No bedrock exposures were encountered on the property.

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

Previous Work:

Geological mapping by Government Geologists in the Lake Abitibi Area dates back to 1907 (Miller) with further work 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 (O.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. 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.

Previous Work: (cont'd)

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.

A picket line grid was established on claims L-579588 to L-579591 inclusive and magnetic and electromagnetic surveys were carried out during 1981. This work was filed for assessment purposes during the fall of 1981.

The geophysical programs described in the current report were completed during the early spring of 1982 and are a continuation - to both the east and west - of the 1981 program.

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.
Pleistocene: Sand, gravel boulders; varved clay.

Great unconformity

Precambrian

Keweenawan: Quartz diabase.

Intrusive contact

Matachewan: Quartz diabase, diabase.

Intrusive contact

Algoman : Feldspar porphyry; felsite; lamprophyre

Intrusive contact

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

Intrusive contact

General Geology: (cont'd)

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 L-579588 and 579589.

Line Cutting and Chaining:

The base line, which strikes S86°W, was extended to both the east and west of the outer boundaries of the four claims of the Destor-Porcupine Group to cover the adjoining claims of Group II. Note that this base line was established along the right-of-way on the north side of Highway No. 101.

Totals of 0.3 miles were cleared and chained on the east block and 1.3 miles on the west.

On the east block, right-angled offset lines were spaced at 400' intervals and were cut to the north and south to the property boundaries. The claim line along the east side of the block was cleared out, chained and used for survey purposes. A total of 2.0 miles of picket lines was cut and chained on the two easterly claims.

On the west block, the offset lines were established at 400' intervals up to line 56W. To the west of line 56W old lines, previously established by other surveyors, were brushed out and rechained and used for recording geophysical readings. A total of 5.8 miles of picket lines was cut and chained on the six westerly claims.

Total miles of base (1.6) and picket lines (7.8) cut and chained by Company personnel on the six claims of the east and west blocks were 9.4.

Electromagnetic Survey:

Electromagnetic surveying was conducted on the property by K. Gray assisted by R. Kaltwasser. Both men are employed by Johns-Manville Canada Inc. and are based at Matheson.

Field work was carried out during March and April, 1982 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 424 stations - 110 on the east and 314 on the west block - was recorded during the course of the survey.

The results of this work are shown on the accompanying Electro-Magnetic Profile Plans - Sheets 1 and 2 - on a scale of one inch equals 200 feet. Profiles have been plotted on a scale of one inch equals 20 degrees.

No crossovers were delineated by this work on the east block - Sheet No. 1. Two extremely weak crossovers - both in the order of (-1° plus 1°) - have been recorded in the western part of claim L-579577 on the west block - Sheet No. 2. This conducting zone strikes slightly south of west, and, if continuous, extends over a length of approximately 700 feet. However, due to the heavy overburden in the area this zone may be due to a conductive layer in the thick clay cover.

Magnetometer Survey:

A magnetometer survey was conducted on the property by K. Gray, assisted by R. Kaltwasser, during mid-March and early April, 1982. 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.

Magnetometer Survey: (cont'd)

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.

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 1490 gammas

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

Note that these two base stations were established for the 1981 survey and were used again for the 1982 program.

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. A truck was made available for this purpose.

Stations were spaced at 50' intervals along the grid lines and totals of 219 and 617 were recorded on the east and west blocks, respectively.

The results of the survey are shown on the accompanying Magnetometer Profile Plans - Sheets 1 and 2 - 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 southeasterly (Sheet 1) and southwesterly (Sheet 2) parts of the property are low and relatively uniform. In general these range in value from 900 to 1,400 gammas and are typical of the weakly magnetic, highly carbonatized sedimentary and volcanic formations occurring along the Destor-Porcupine fault zone.

The higher magnetic values, which range from 1400 to 2700 gammas, and occur in the southeastern and southwestern sections of the claims have been interpreted as being caused by a basaltic or diabasic flow situated along the southerly contact of the Destor-Porcupine fault zone.

Conclusions and Recommendations:

No conducting zones or magnetic anomalies of economic significance have been delineated by the geophysical surveys completed on the Johns-Manville holdings.

However, it is recommended that seismic tests be carried out to determine depth to bedrock at several sites on the claims, and, if the depth is beyond the limits of the R.E.M. unit a deep-penetration survey should be conducted.

Submitted: November 10th, 1982

F.J. Evelegh
by: F.J. Evelegh
Exploration Manager

SPECIFICATIONS OF
 FLUXGATE MAGNETOMETER
 MODEL MF-1

Ranges:	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 "
Meter:	Taut-band suspension 1000 gammas scale 1 7/8" long — 50 div. 3000 gammas scale 1 11/16" long — 60 div.
Accuracy:	1000 to 10,000 gamma ranges ± 0.5% of full scale 30,000 and 100,000 gamma ranges ± 1% of full scale
Operating Temperature:	—40°C to +40°C —40°F to +100°F
Temperature Stability:	Less than 2 gammas per °C (1 gamma /°F)
Noise Level:	Total 1 gamma P-P
Long Term Stability:	± 1 gamma for 24 hours at constant temperature
Bucking Adjustments: (Latitude)	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.
Recording Output:	1.7 ma per oersted for 1000 to 100,000 gamma ranges with maximum termination of 15,000 ohms.
Response:	DC to 5 cps (3db down)
Connector:	Amphenol 91-MC3F1
Batteries:	12 x 1.5V-flashlight batteries "C" cell type) (AC Power supply available)
Consumption:	50 milliamperes
Dimensions:	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
Weights:	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



SCINTREX



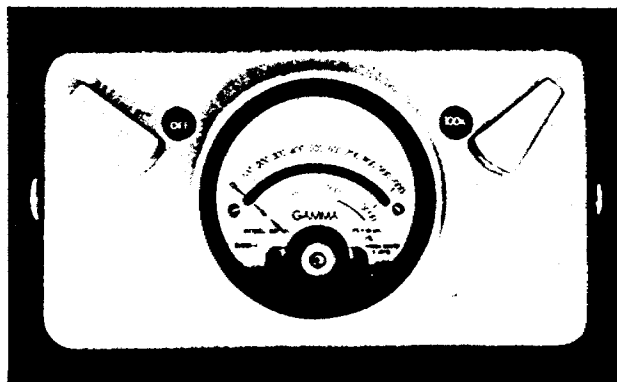
MF-1 FLUXGATE MAGNETOMETER

The MF-1 Fluxgate Magnetometers and their extended sensitivity series, the MF-1-100's are designed primarily for the oil and mineral exploration industries. They incorporate advanced transistorized circuitry and extensive temperature compensation with light weight and a self-levelling mechanism. Although the basic MF-1 and MF-1-100 are intended primarily for accurate ground surveys in the mining industry, modifications are available for base station recording, for vertical gradient measurements, for measuring susceptibilities, determining remanence of rock samples and for storm monitoring on aeromagnetic surveys.

MF-1 SERIES

(a) MF-1

The MF-1 Fluxgate Magnetometer is a vertical component magnetometer designed for accurate ground surveys in



the mining industry. Advanced transistorized circuitry and extensive temperature compensation is the core of its accuracy, comparable to precision tripod mounted Schmidt type magnetometers. It is a hand held instrument and needs only coarse levelling and no orientation. Features such as direct reading of gamma values and the possibility of accurate zero settings at base stations ensure simplicity of operation and high field economy. The readability is 5 gammas on the 1000 gamma range.

(b) MF-1-G

The MF-1-G Fluxgate Magnetometer has the same electronics and specifications as the MF-1. The difference lies in that the sensor is detached and enclosed in a small cylindrical tube thus permitting the sensor (geoprobe) to be oriented and tilted in any desired direction. Since a 25 foot connecting cable joins the sensor to the instrument housing, the geoprobe may be placed away from local spurious magnetic disturbances in the vicinity of the electronics housing. Thus this magnetometer may be used for the study of the magnetic properties of rocks, remanence etc.

(c) MF-1-GS

The MF-1-GS Magnetometer again has the same electronics and specifications as the MF-1 but has two sensors, the attached self-levelling sensor of the MF-1 as well as the detached geoprobe of the MF-1-G. Thus this magnetometer may be employed on rapid ground magnetometer surveys and also used for vertical gradient measurements and to measure the magnetic properties of rocks.

GEOL. LEGEND

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

GEO-MAG SYMBOLS

- 500 Contour interval 500 gammas
- BCS#1 Magnetic Base Control Station
- Geological Contact
 - G- Geological
 - M- Magnetic
 - T- Topographic
- Fault Zone
- Mag. Profile

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

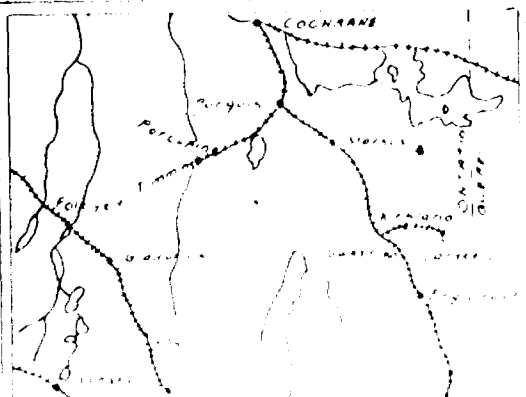
- x---x In phase curve
- o---o Out phase curve
- NPCS Not proper coil spacing
- East - Positive. West - Negative

M'PHAR V.L. UNIT

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

Geol. Survey by -
 Mag. Survey by - K. GRAY
 E.M. Survey by - ✓

LOCATION SKETCH - 1" = 50 Miles



LEGEND SHEET
 PROVINCE OF ONTARIO



32012SE0033 2.5343 HOLLOWAY

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1983 08 09

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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 579576 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

R. Pichette:mc

Encl.

cc: Johns-Manville Canada Inc
P.O. Box 610
Matheson, Ontario
POK 1N0

cc: Resident Geologist
Kirkland Lake, Ontario



Recorded Holder JOHNS-MANVILLE CANADA INC
Township or Area HOLLOWAY TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 40 Electromagnetic _____ days Magnetometer _____ days 20 Radiometric _____ days Induced polarization _____ days 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.	L 579576-77 579586-87 579592 to 95 inclusive

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

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:



Ministry of
Natural
Resources

Notification of recording
of assessment work credits

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

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NOV 23 1982

MINING LANDS SECTION

Date of recording of work: NOVEMBER 16, 1982

Recorded holder: JOHNS-MANVILLE CANADA INC.

Address: Box 610, MATHESON, Ontario P0K 1N0

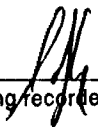
Township or Area: HOLLOWAY TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic } 60 days	L 579576-77
Magnetometer } days	L 579586-87
	L 579592-93-94-95
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input 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.


Mining recorder

George Koleszar

c.c.

Statement of First Year's Rental
and Extra Work Requirements

Township or Area

McFADDEN TOWNSHIP

Claim No.	Acreage	Acres at \$1.00	Acres at \$2.00	Total Amount	Extra Work Requirements (No. of days)
L447165	57.44	40.0	17.44	\$74.88	87
<p>Lease to include land under the waters of part of Larder Lake.</p> <p>Lease to issue for mining rights only.</p>					
<p>RECEIVED NOV 23 1982 MINING LANDS SECTION</p>					

The applicant may apply for a lease including the surface rights where available or he may apply for the mining rights only. The annual rentals subject to penalties are as follows:

First Year - \$1.00 per acre (minimum \$5.00)

Subsequent Years - (incl. surface) 25¢ per acre (minimum \$5.00)

Sand and gravel are reserved to the Crown.

- (excl. surface) 10¢ per acre (minimum \$4.00)

Lands Administration Branch

File Number

Dated

Nov. 19/82

and signed for the Regional Director by

May 24/83

File
25343

Mining Lands Comments

To: Geophysics *Mr. Barlow.*

Comments

Approved Wish to see again with corrections Date *July 26/83* Signature *Douglas H. Patcher*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

WA

Approved Wish to see again with corrections Date Signature

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

1983 02 04

2.5343

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 579576 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

DW:sc

cc: Johns-Manville Canada Inc
Matheson, Ontario
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

Present address:

P.O. Box 610
Matheson, Ontario
POK 1N0

January 10th, 1983

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

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JAN 12 1983

MINING LANDS SECTION

Dear Sir:

Enclosed find "Report and Maps", in duplicate, covering geo-physical surveys completed on mining claims L-579576-77-86-87-92 to 95 incl. held by this Company in Holloway Township.

Special Provision form is attached.

Note that "Report of Work" form covering these surveys was filed with the Mining Recorder in Kirkland Lake on November 15th, 1982.

Yours very truly,

F.J. Eveleigh
Exploration Manager

cc:
G. Koleszar - Mining Recorder - Kirkland Lake, Ontario
J.M. Sharratt - Denver 2-13
G. McDonald - " "
file

Encls

REGISTERED MAIL

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.

Type of Survey Geophysical
Township or Area Holloway
Claim holder(s) Johns-Manville Canada Inc.
Author of Report F.J. Evelegh
Address Box 610, Matheson, Ontario P0K 1N0
Covering Dates of Survey Feb 16th - Nov 10th, 1982
(linecutting to office)
Total Miles of Line cut 9.4

MINING CLAIMS TRAVERSED
List numerically

L	579576
(prefix)	(number)
L	579577
L	579586
L	579587
L	579592
L	579593
L	579594
L	579595

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical --Electromagnetic	40
ENTER 20 days for each additional survey using same grid.	--Magnetometer	20
	--Radiometric	
	--Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: January 10/83 SIGNATURE: F.J. Evelegh
Author of Report or Agent

PROJECTS SECTION
Res. Geol. _____ Qualifications 63-1067
Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

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MINING LANDS SECTION

TOTAL CLAIMS 8

If space insufficient, attach list

OFFICE USE ONLY

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations Mag. - 846 E.M. - 424 Number of Readings Mag. 888 E.M. 447
Station interval Mag. 50' E.M. 100'
Line spacing 400'
Profile scale or Contour intervals Mag 1" = 4,000g E.M. 1" = 20°
(specify for each type of survey)

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 No. 1
Base station location B.C.S. No. 1 - L 0400 on B/L - value 1490g
B.C.S. No. 2 - L16400W on B/L - value 1035g

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 c.p.s.
Parameters measured Dip angle & width of null
(specify V.L.F. station)

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION - RESISTIVITY

Instrument _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
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 _____

Mag

Em

File no. 25343

L 579576

✓

✓

77

✓

✓

579586

✓

✓

87

✓

✓

579592

✓

✓

93

✓

✓

94

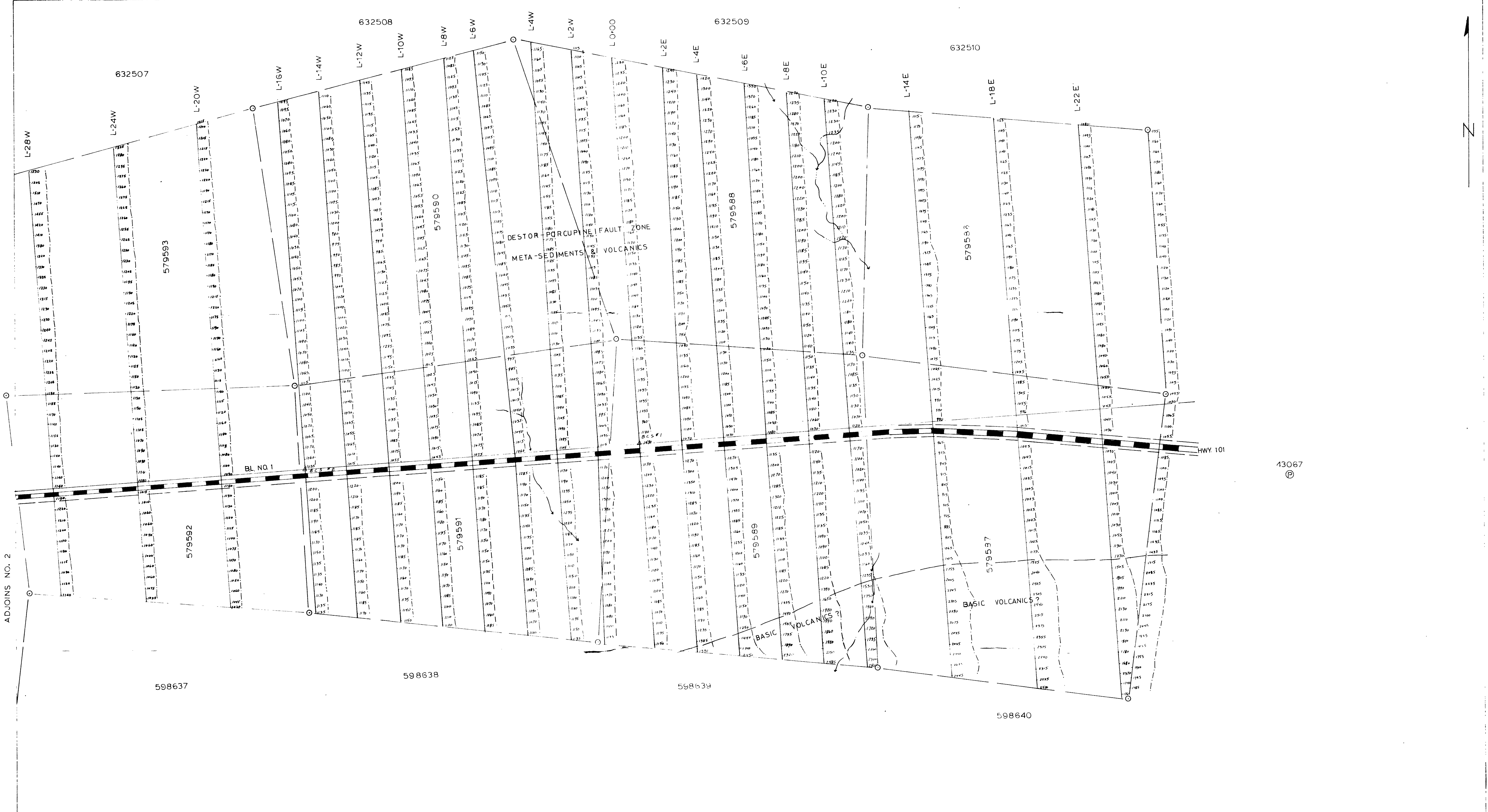
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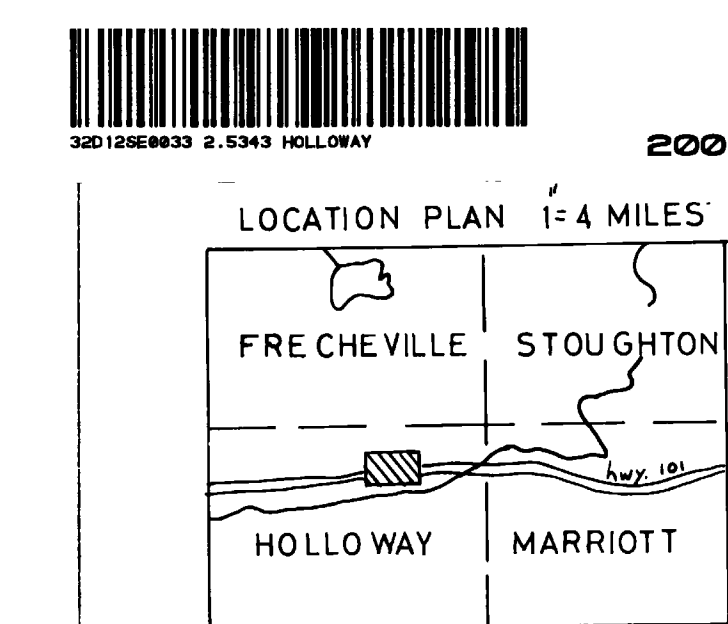
95

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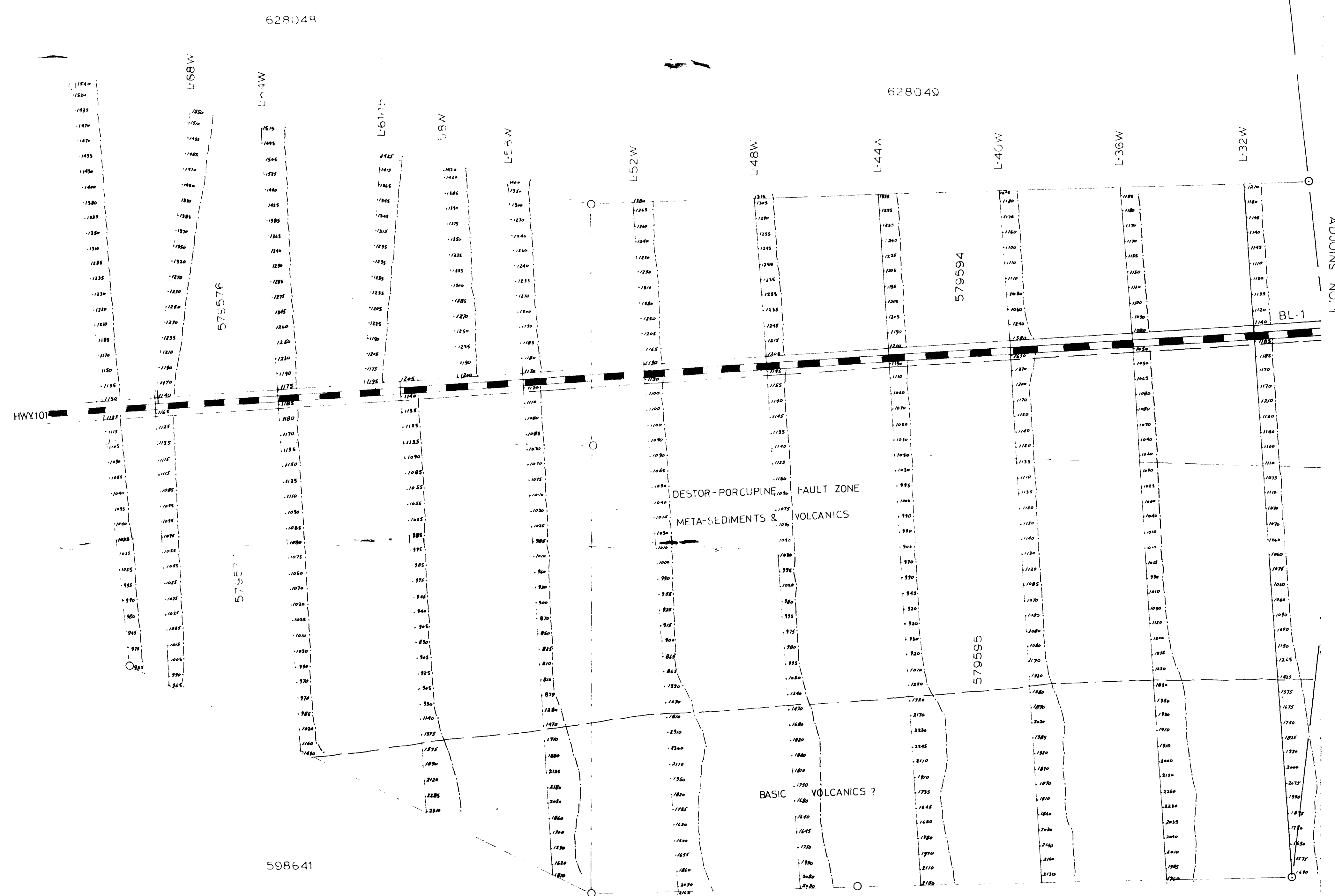
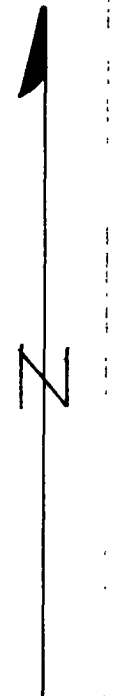
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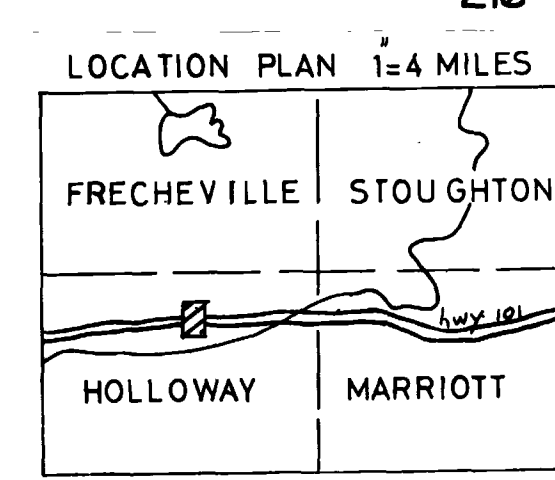
ADJOINS NO. 2



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

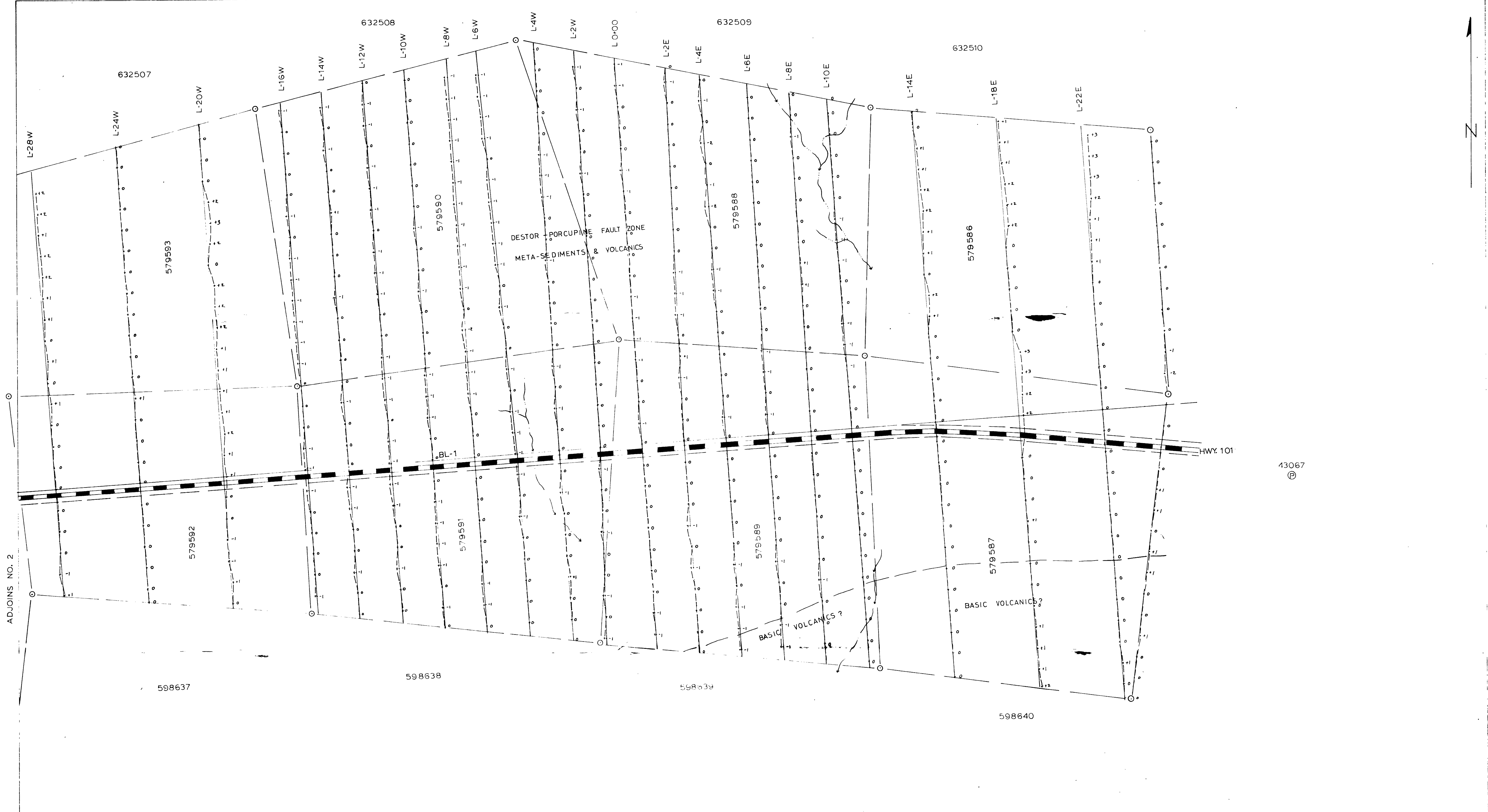


210



598642
 MAGNETOMETER PROFILE PLAN
 INSTRUMENT - MF1 FLUXGATE MAGNETOMETER
 SERIAL NO. 409107
 OPERATOR - K. GRAY - PROFILE 1 1/2 4000g

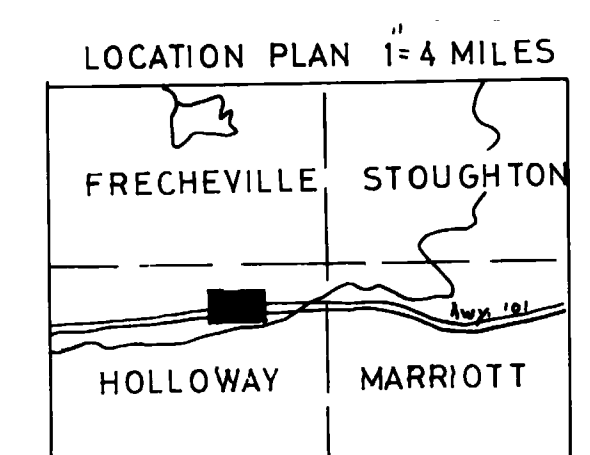
Handwritten signature
 JOHNS MANVILLE CANADA INC.



ADJOINS NO. 2

13067
Ⓟ

3201206433 2.5343 HOLLOWAY 220



ELECTRO-MAGNETIC PROFILE PLAN
 INSTRUMENT - McPHAR R.E.M. UNIT - SERIAL NO. 30.6507
 INLINE METHOD - 200' SPACING - PROFILE 20"x1"
 OPERATOR - J. GOODGER

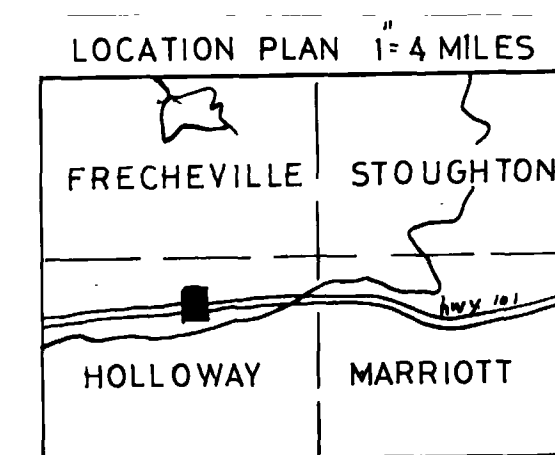
JOHNS MANVILLE CANADA INC.

ONT. 1"=200' NOV 10 1982 DESTOR-PORCUPINE GR. - HOLLOWAY TWP. #1

2.5343



230



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

JOHNS MANVILLE CANADA INC.