REPORT ON GEOPHYSICAL SURVEYS
HARKER LAKE WEST GROUP OF CLAIMS
HARKER TOWNSHIP
LARDER LAKE MINING DIVISION
PROVINCE OF ONTARIO

by

F.J. Evelegh

Johns-Manville Canada Inc.
Exploration Manager

December 14th, 1981
Asbestos, Quebec

TABLE OF CONTENTS

- - - - - - - - - - - - - - - - - - - -

List of Maps Accompanying Report

Electromagnetic Profile Plan - scale : 1" = 200'

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

Legend Sheet

REPORT ON GEOPHYSICAL SURVEYS
HARKER LAKE WEST GROUP OF CLAIMS
HARKER TOWNSHIP
LARDER LAKE MINING DIVISION
PROVINCE OF ONTARIO

Introduction:

The following report describes the geophysical surveys completed during mid-November 1981, on eight mining claims recorded in the name of Johns-Manville Canada Inc. and located in Harker Township, Larder Lake 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 K. Gray. 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. Final interpretation and report compilation 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 Harker Township and are numbered L-579572-73, L-598854-55-56 and L-579583-84-85. Acreage totals approximately 320.

Property: (Cont'd)

Staking was carried out during mid-January 1981, and the claims were recorded on January 19th and 21st. All eight claims have been transferred to Johns-Manville Canada Inc.

Location and Accessibility:

The property is located in the central part of Harker Township, immediately to the north and west of Harker Lake.

Ready access is provided by a sand and gravel road which branches off to the south from Highway No. 101 approximately twenty-five miles east of Matheson (just east of the Ghost River bridge). This secondary road leads to the property, a distance of about five miles southeast of the Highway, and passes through the claims from west to east.

Topography:

With the exception of the extreme southwestern part of the group, which is mainly spruce swamp, the claims are covered with sand and gravel till. Rock outcrops form a low hill in the northwestern section of the property.

A reforestation program has been carried out during recent years and the area is now covered with young jackpines.

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 and 1973 - L.S. Jensen, Geological Branch, Ontario Division of Mines, mapped a block extending from Milligan, McCool, Michaud Townships on the west to the Quebec border on the east. The north part of Harker Township is included in this section.

Previous Work: (Cont'd)

High Resolution Aeromagnetic Maps (O.D.M & G.S.C.) covering the area were issued in the mid-1970's.

Map No. 2205 - The Timmins-Kirkland Lake Sheet of the Geological Compilation Series - on a scale of one inch to four miles includes Harker Township.

In the late 1970's the Ontario Geological Survey issued a Preliminary Map of the Kirkland Lake Data Series covering Harker Township.

Since acquisition of the Harker Lake West property, by staking, in early 1981, Johns-Manville has carried out power stripping, plugger work, drilling, blasting and hand mucking in the outcrop area on claim L-579583. This work has been filed with the Mining Recorder in Kirkland Lake for assessment purposes. The geophysical programs described in this report were completed during the late fall of 1981.

Note that no records of previous work on the Johns-Manville property were on file in the Resident Geologist's office in Timmins.

General Geology:

The geology of Harker Township is described in the Sixtieth Annual Report of the Ontario Department of Mines, being Vol. LX, Part III, compiled by J. Satterly and published in 1952. The following "Table of Formations" has been taken from Page 7 of this report:

Table of Formations

CENOZOIC:		
Recent	:	Peat
Pleistocene	:	Sand, gravel, boulders; boulder clay; varved clay.
		Great unconformity.
PRECAMBRIAN:		
Keweenawan(?):		Olivine diabase
		Intrusive contact

General Geology: (Cont'd)

Matachewan(?):		Quartz diabase, diabase.
		Intrusive contact
Algoman(?)	:	Syenite, feldspar porphyry, lamprophyre.
		Intrusive contact
Haileyburian(?):		Diabase, gabbro, peridotite and dunite (serpentinized) pyroxenite.
		Intrusive contact
Volcanics	:	Rhyolite: fragmental lava, porphyritic rhyolite. Andesite, basalt: pillow lava, diabasic lava, spherulitic lava, fragmental lava, tuff and chert; talc-chlorite schist, carbonate-chlorite schist.
		Faulted (?) contact.
Sediments	:	Greywacke, arkose, iron formation.

As part of the 1981 exploration program on the Harker Lake West claims, reconnaissance-type mapping of the topography and rock outcrops was conducted by R. Kaltwasser. This work showed that the property is underlain by a series of volcanic flows striking in a northeasterly direction and dipping steeply to the southeast. These formations are comprised of andesites, basalts, pillow lavas, spherulitic lavas, diabasic flows and a narrow band of highly carbonated volcanics. Scattered, narrow quartz-feldspar porphyry dikes, mineralized with disseminated pyrite and pyrrhotite, cut across the strike of the formations.

Several northwesterly trending cross structures were noted in the western part of the group.

Line Cutting and Chaining:

The base line was started from the No. 3 post of claim L-598854 and cut east and west to the property boundaries. Right-angled offset lines, spaced at 400' intervals, were cut and chained to the north and south of this line to cover the claims.

Line Cutting and Chaining: (Cont'd)

Marked pickets were established every 100' along the base and picket lines by chainage. Note that claim lines along the east side and the north part of the west side of the group were brushed out, chained and used for survey purposes.

The ends of several of the longer lines were chained in along the south boundary of the claims to increase the accuracy of the grid.

Total miles of base (0.99) and picket lines (6.1) cut and chained on the Harker Lake West group was 7.09.

Electromagnetic Survey:

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

Field work was carried out during mid-November 1981, using a McPhar vertical loop, reconnaissance electromagnetic unit operating on a frequency of 1000 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.

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

Electromagnetic Survey: (Cont'd)

A total of 387 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°.

Several crossovers, indicative of weak to moderate conducting zones, have been delineated by the survey. Two moderate crossovers (+3°-4°) and (+2°-3°) have been recorded along line 34+25W on claim L-579854. A weak crossover (+1°-1°) occurs to the west on the same claim. A weak to moderate crossover (+3°-1°) has been recorded along line 24+00W on claim L-579583.

Note that limited detailed surveying, with stations spaced at 50' intervals, was carried out to check a series of irregular readings (in the order of -2°to -3°) on lines 4+00E, 8+00E and 12+00E.

All of these conductors are located in an area of higher ground with numerous outcrops and shallow overburden cover which will greatly facilitate further exploration programs.

Magnetometer Survey:

A magnetometer survey was conducted on the property by K. Gray during the mid-part of November 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.

One base control station was established on the base line at picket line 8+00W with a fixed value of 3,100 gammas.

Magnetometer Survey: (Cont'd)

During the course of the survey the base control station was 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' intervals - 25' where additional detail was required - along the grid lines and a total of 857 was recorded during the course of the survey.

The results of the survey are shown on the accompanying Geo-Magnetic 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 conducted by R. Kaltwasser have aided greatly in the interpretation of the magnetic data.

The claims surveyed are underlain by intermediate to basic volcanics which strike in a northeasterly direction and dip steeply to moderately to the southeast. Magnetic readings over the intermediate volcanics - comprised of andesites, basalts, pillow and spherulitic lavas - range in value from 1,300 to 2,500 gammas. In general, the intensity is less than 2,000; however, along the down-dip (south-easterly) side of the diabasic flow a broader band which ranges from 2,000 to 2,500 gammas has been outlined.

The broad zone of moderate magnetic "highs", having gamma values ranging from 2,500 to 4,480, appears to be due to a diabasic flow - several outcrops were mapped during the geological traversing. This anomalous band reaches a width of 1,200 feet in the south-central part of the property. Average magnetic values range from 3,200 to 3,800 gammas.

Magnetometer Survey: (Cont'd)

Two northwesterly-trending cross faults have been indicated by the magnetometer survey and have been shown on the accompanying plan. Note that several minor structures (not shown) were mapped during the geological program.

Conclusions and Recommendations:

Several weak to moderate conductors have been delineated by the electromagnetic survey.

Magnetically, anomalous values have been recorded over a sizeable diabasic flow which strikes in a northeasterly direction across the property.

Recommendations for the 1982 exploration program on the Harker Lake West claims include geological mapping, prospecting, detailed geophysical work over the conductors to be followed by trenching, and, if warranted limited diamond drilling.

Submitted : December 14th, 1981

by : F.J. Evelegh
Exploration Manager

GEOL. LEGEND

Quartz diabase, diabase.

5 — Granite 5a, Syenite 5b, Feldspar porphyry 5c, Quartz feldspar 5d, Felsite 5e, Lamprophyre 5f.

Diorite 4a, Gabbro diabase 4b, Breccia 4e

4c — Peridotite & Dunite (Serpentinized) (Asb. - Asbestos recognized

Pyroxenite 4d.

3 — Rhyolite fragmental lava

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.

Carbonate rock

Quartz veins

GEO-MAG SYMBOLS

500/1000 — Contour interval 500 gammas

BCS#1 — Magnetic Base Control Station

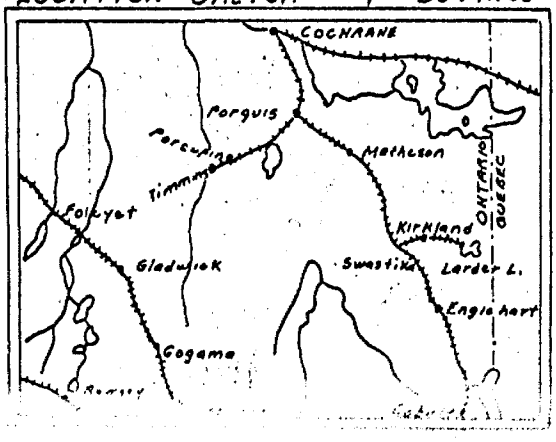
Geological Contact

Fault Zone — G- Geological, M- Magnetic, T- Topographic

Mag. Profile

JOHNS MANVILLE CANADA INC.

LOCATION SKETCH - 1" = 50 Miles



TOPO-SYMBOLS

Outcrop

Higher ground

Scarp

Muskeg or Swamp

Creek

Drill hole

Bush road

Direction fn which lava flows face, indicated by shape of pillows

ELECTRO-MAG SYMBOLS

SEONICS 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

McPHAR 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 DEC 14 1981

DRAWN - MB.

TRACED

APPROVED - F.J.E.

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 1⅞" 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 100,0000 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 — 6½" x 3½" x 12½" 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

Ontario

Ministry of Natur

GEOPHYSICAL – GEOLOGI(
TECHNICAL DATA

32D05NW0424 2.4502 HARKER

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 Harker

Claim Holder(s) Johns-Manville Canada Inc.

Survey Company

Author of Report F.J. Evelegh

Address of Author Box 1500, Asbestos, Que., J1T 3N2

Covering Dates of Survey June 10 to December 14, 1981
(linecutting to office)

Total Miles of Line Cut 7.1

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	40
–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: Jan. 22, 1982 SIGNATURE: F.J. Evelegh
Author of Report or Agent

Res. Geol. _____ Qualifications 63,1067

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	579572
L	579573
L	598854
L	598855
L	598856
L	579583
L	579584
L	579585

If space insufficient, attach list

TOTAL CLAIMS 8

OFFICE USE ONLY

837 (6/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Mag-857; E.M.-387 Number of Readings Mag-879; E.M.-392

Station interval Mag-50' and 25'; E.M.-100'& 50' Line spacing 400'

Profile scale Mag - 1" = 4,000g E.M. - 1" = 20°

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 on the base line at picket line 8+00W - Value - 3,100 gammas

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 1000 c.p.s. (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 _____

2.4502

1983 06 13 2.4502

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

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey
on Mining Claims L 579572 et al in the Township of Harker

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:mc

Attach:

cc: Johns-Manville Canada Inc.
P.O. Box 610
Matheson, Ontario
P0K 1N0

cc: Resident Geologist
Kirkland Lake, Ontario

Ministry of Natural Resources
Ontario

Technical Assessment
Work Credits

File
2.4502

1983 06 13

Recorded Holder
JOHNS-MANVILLE CANADA INC

Township or Area
HARKER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 40 days	L 579572 - 73
Magnetometer 20 days	579583 to 85 inclusive
Radiometric ____ days	598854 to 598856 inclusive
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ 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 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 86(18)-60:

Ontario

2.4502

Ministry of
Natural
Resources

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

Notification of recording of assessment work credits

RECEIVED
JAN 25 1982
MINING LANDS SECTION

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 6450 Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: January 13, 1982

Recorded holder: Johns-Manville Canada Inc.

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

Township or Area: Harker

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic ____ days (60)	L 579572, 579573 L 598854 to 598856 inclusive L 579583 to 579585 inclusive
Magnetometer ____ days (60)	
Radiometric ____ days	
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	

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

c.c. Johns-Manville Canada Inc.

102 (6/77)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.4502

Mining Lands Comments

- Ugen was not to see again

☑ To: Geophysics Mr Barlow

Comments

☐ Approved ☐ Wish to see again with corrections | Date Aug 29/83 | Signature R Barlow

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

L.D.

☐ Approved ☐ Wish to see again with corrections | Date | Signature

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

1593 (81/10)

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 1NO

January 13, 1983

Mr. E.F. Anderson
Director
Land Management Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Re electromagnetic survey plans for claims groups (4) in Sheraton - Thomas - Timmins - Harker Townships which were recently returned for correction, these are herewith enclosed, in duplicate, and now show the dip angle values for each station recorded and a key map showing the location of the property with respect to the Township boundaries.

Please note the change of address - this office was moved from Quebec to Ontario on May 3rd, 1982.

Yours very truly,

F.J. Evelegh
Exploration Manager

cc:
J.M. Sharratt - Denver 2-13
file

Encls

REGISTERED MAIL

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.4502

Mining Lands Comments

- E.M. map has no readings.

☑ To: Geophysics Mr Barlow.

Comments

- Key map needed
- Em maps need new readings plotted

☐ Approved ☑ Wish to see again with corrections | Date Oct 29/82 | Signature

☐ 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)

1593 (81/10)

1982 12 24 2.4502

Johns-Manville Canada Incorporated
Asbestos, Quebec
J1T 3N2
Attention: F.J. Evelegh

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer) Survey submitted on Mining Claims L 579572 et al in the Township of Harker

---

Enclosed is the EM map in duplicate for the above mentioned survey. In order to complete your submission, we require:

(a) the raw data plotted in each station,

(b) a key map showing the location of the property with respect to the 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
Kirkland Lake, Ontario

February 9, 1982 2.4502

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.579572 et al, in the Township of Harker.

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

VIA REGISTERED MAIL

January 22, 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 Harker Township.

Special Provision form is attached.

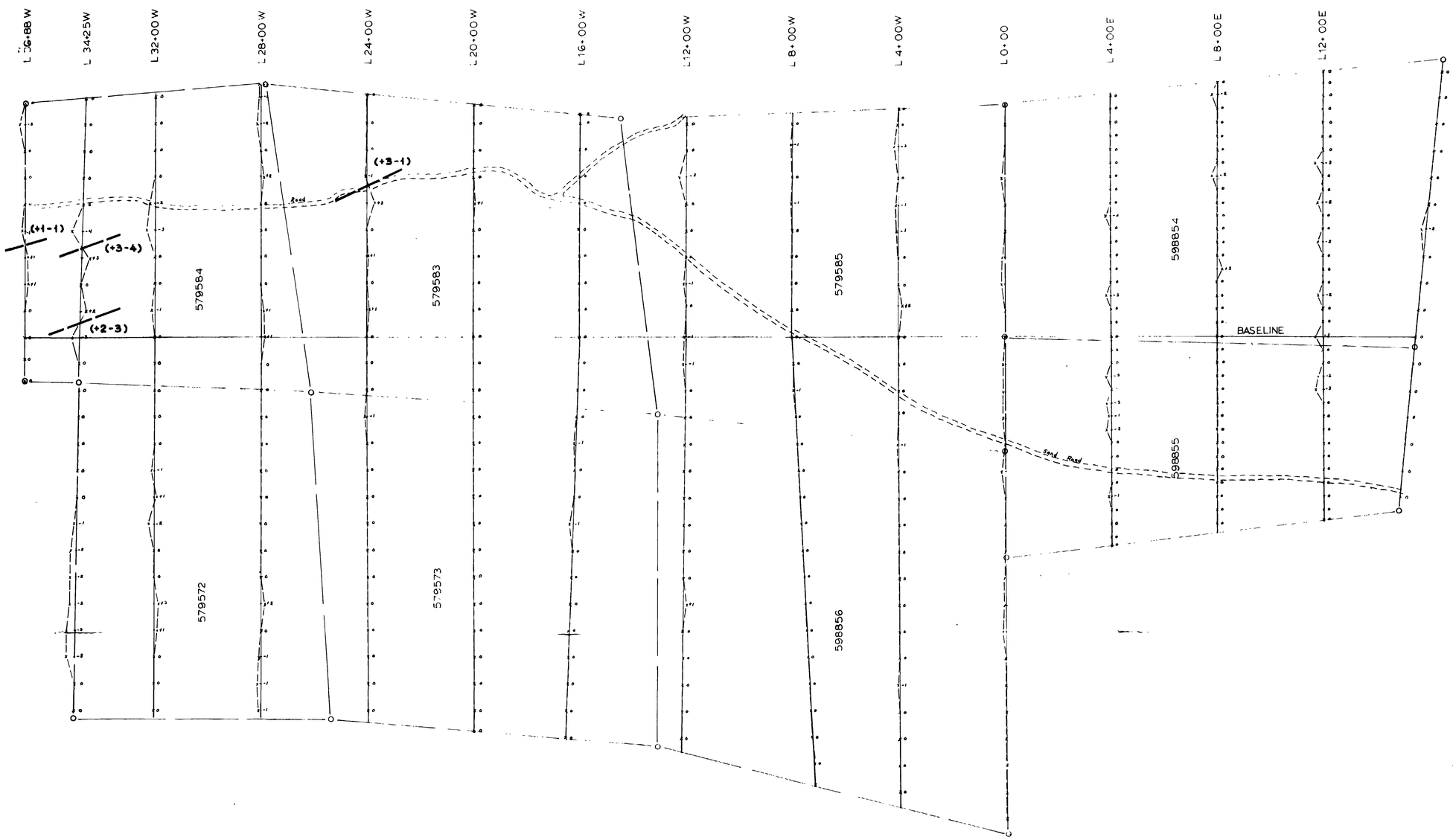
Note that "Report of Work" form covering these surveys has been filed with the Mining Recorder in Kirkland Lake.

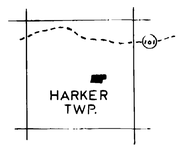
Yours very truly,

F.J. Evelegh
Exploration Manager

cc: G. Koleszar, Mining Recorder, Kirkland Lake
J.M. Sharratt - Denver
G. McDonald - Denver
M. Bruce - Matheson
file

encls.





ELECTRO - MAGNETIC PROFILE PLAN

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

24502

REVISED
JAN 10 1983

JOHNS MANVILLE CANADA INC.

200

ONT. 1"=200

DEC 14 1981

WEST GR.- HARKER TWP.

GEO-MAGNETIC PROFILE PLAN

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

ONT. 1" = 200

DEC 14 1981

JOHNS MANVILLE CANADA INC.

WEST GR.- HARKER TWP.