42A13SE0006 2.12837 GEARY

010

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON
GEARY TOWNSHIP PROPERTY
PORCUPINE MINING DIVISION
DISTRICT OF COCHRANE

Prepared By:
J. C. Grant
F.G.A.C., C.E.T.
August 24, 1989.

GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

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INTRODUCTION

The Geary Property consists of 14 staked mining claims located in the west central section of Geary Township approximately 55 kilometers northwest of the City of Timmins. (Figure 1)

The property was staked for its potential for base metal mineralization.

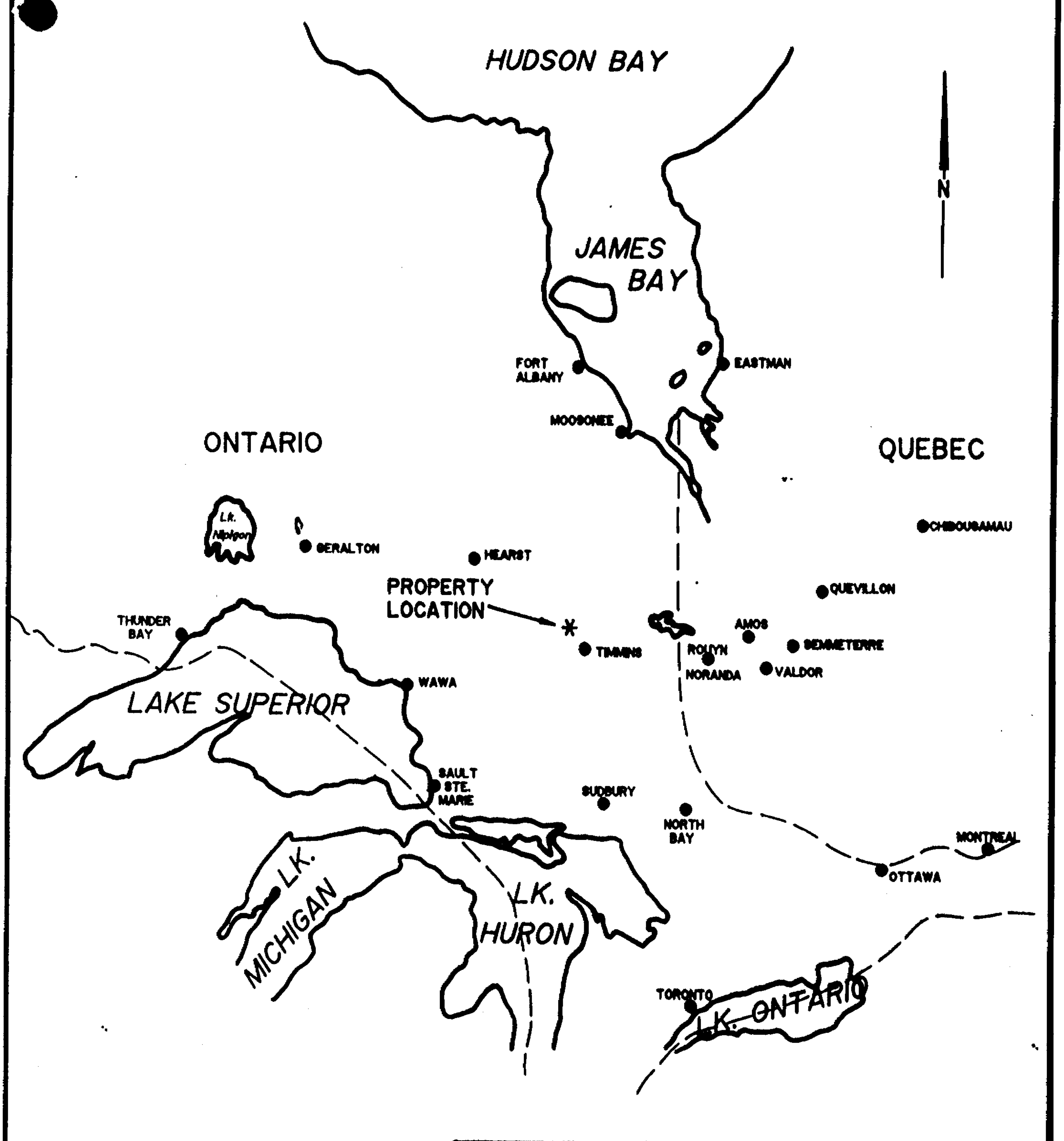
Exsics Exploration was contracted to perform a geophysical program to test the property for this potential. This program was carried out during the month of June, 1989.

PERSONNEL

The people directly involved with the surveys and in the collection of the data were all employed by Exsics Exploration Ltd., and are as follows:

Wayne Pearson	Geophysical Operator	Timmins, Ontario
Dan Collin	Assistant	Timmins, Ontario
Ed Brunet	Magnetometer Operator	Timmins, Ontario

All of the work was supervised by J.C. Grant.



EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg. Timmins Ont.
Telephone: 705-267-6151

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: GEARY TOWNSHIP PROPERTY

TITLE:

LOCATION MAP

Fig. I

Date: Aug. 1989	Scale: 1"=125miles	NTS:
Drawn:	Interp: J. Grant	Job No. EE-252

CLAIM GROUP

The claim numbers which make up the Geary Property are as follows:

1030606	1033331
1030607	1033332
1030608	1033333
1030609	1033334
1030610	1033335
1030611	
1030614	
1030615	
1030616	

Refer to Figure 4, Geary Township, M.N.D.M. Plan Map G-3503.

GEOPHYSICAL PROGRAM

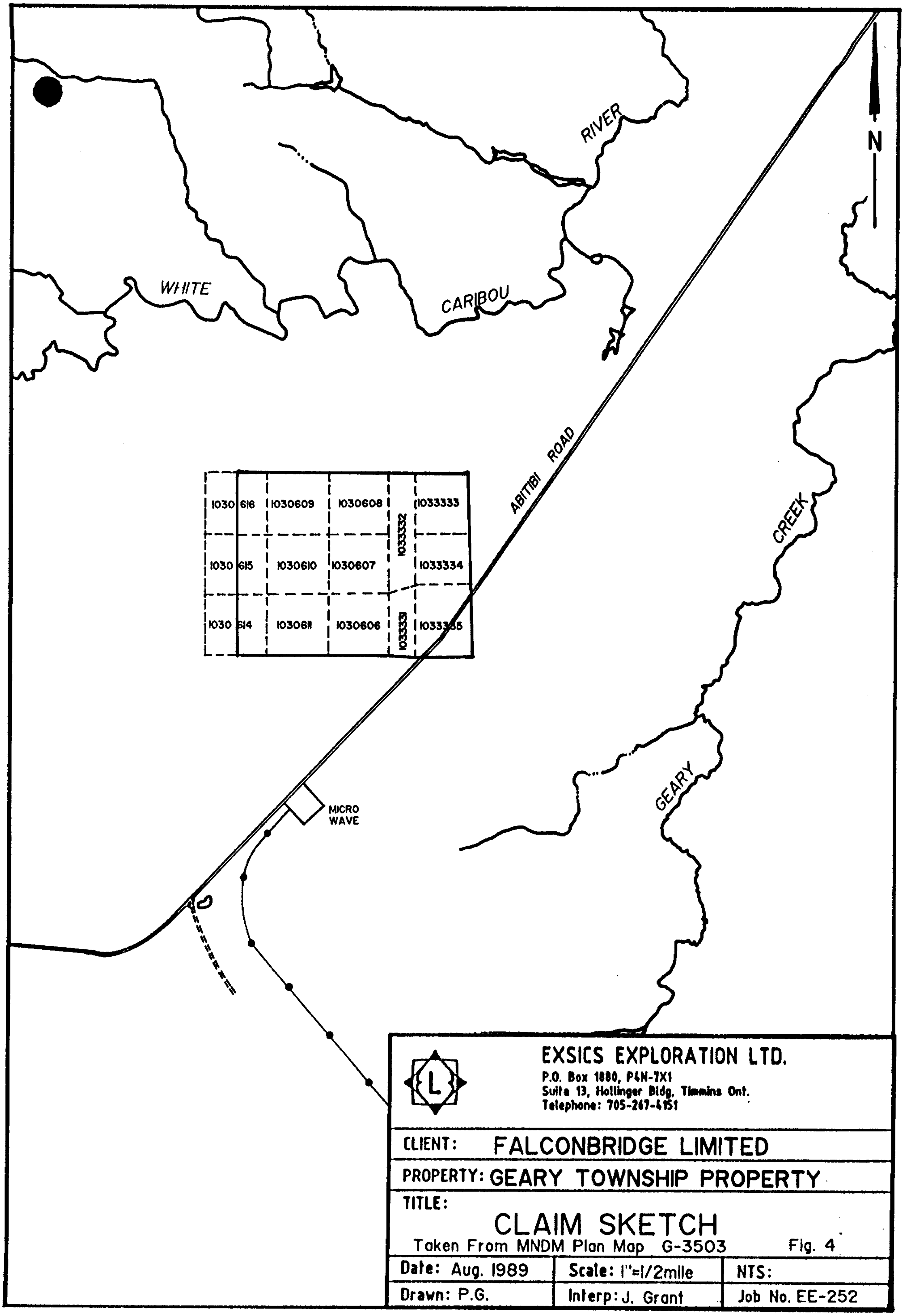
This program consisted of a total field magnetic survey and a horizontal loop, electromagnetic survey. Both of these surveys were completed over the entire property.

The purpose of these surveys was to locate an airborne electromagnetic structure situated in an east-west magnetic structure. This target had been identified on the Government Airborne and Total Intensity Survey, Timmins Area, Geary Township, flown by Geoterrex Limited, for the Ontario Geological Society. (Figure 3)

LOCATION AND ACCESS

The Geary Township property is situated in the west central section of Geary Township, approximately 55 kilometers northwest of the City of Timmins. (Figure 2)

Access to the property is relatively easy since a gravel road has been constructed into the township. This road was constructed by lumber companies which are no longer active in the area.



EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

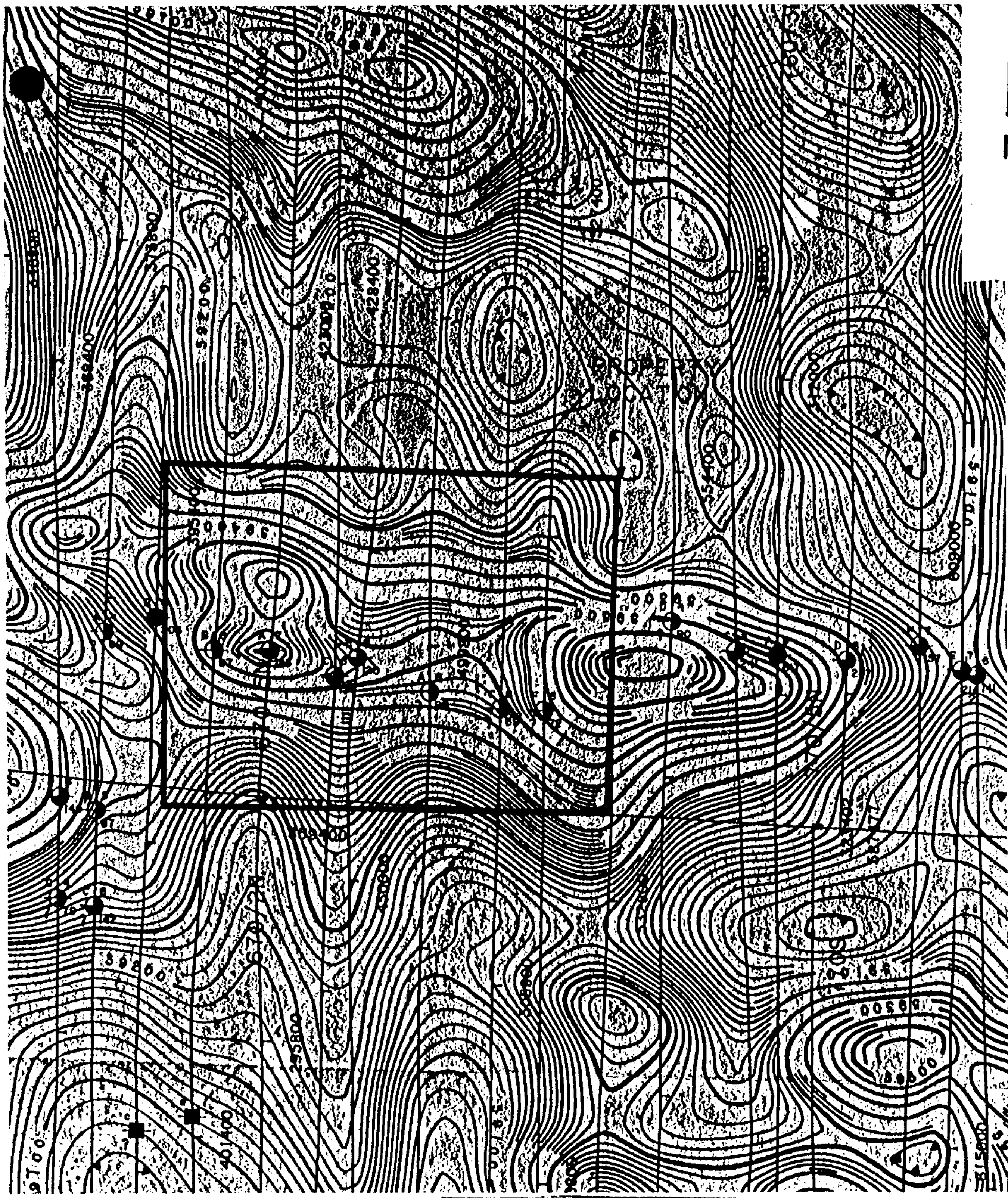
CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	GEARY TOWNSHIP PROPERTY

TITLE:

CLAIM SKETCH

Taken From MNDM Plan Map G-3503 — Fig. 4

Date: Aug. 1989	Scale: 1"=1/2mile	NTS:
Drawn: P.G.	Interp: J. Grant	Job No. EE-252



AIRBORNE ANOMALY — DECAY INTERVAL CLASSIFICATION

- 1-2 Channel (350, 450 microseconds)
- 3-4 Channel (550, 670 microseconds)
- 5-6 Channel (790, 910 microseconds)
- 7-8 Channel (1050, 1190 microseconds)
- 9-10 Channel (1350, 1510 microseconds)
- 11-12 Channel (1680, 1870 microseconds)

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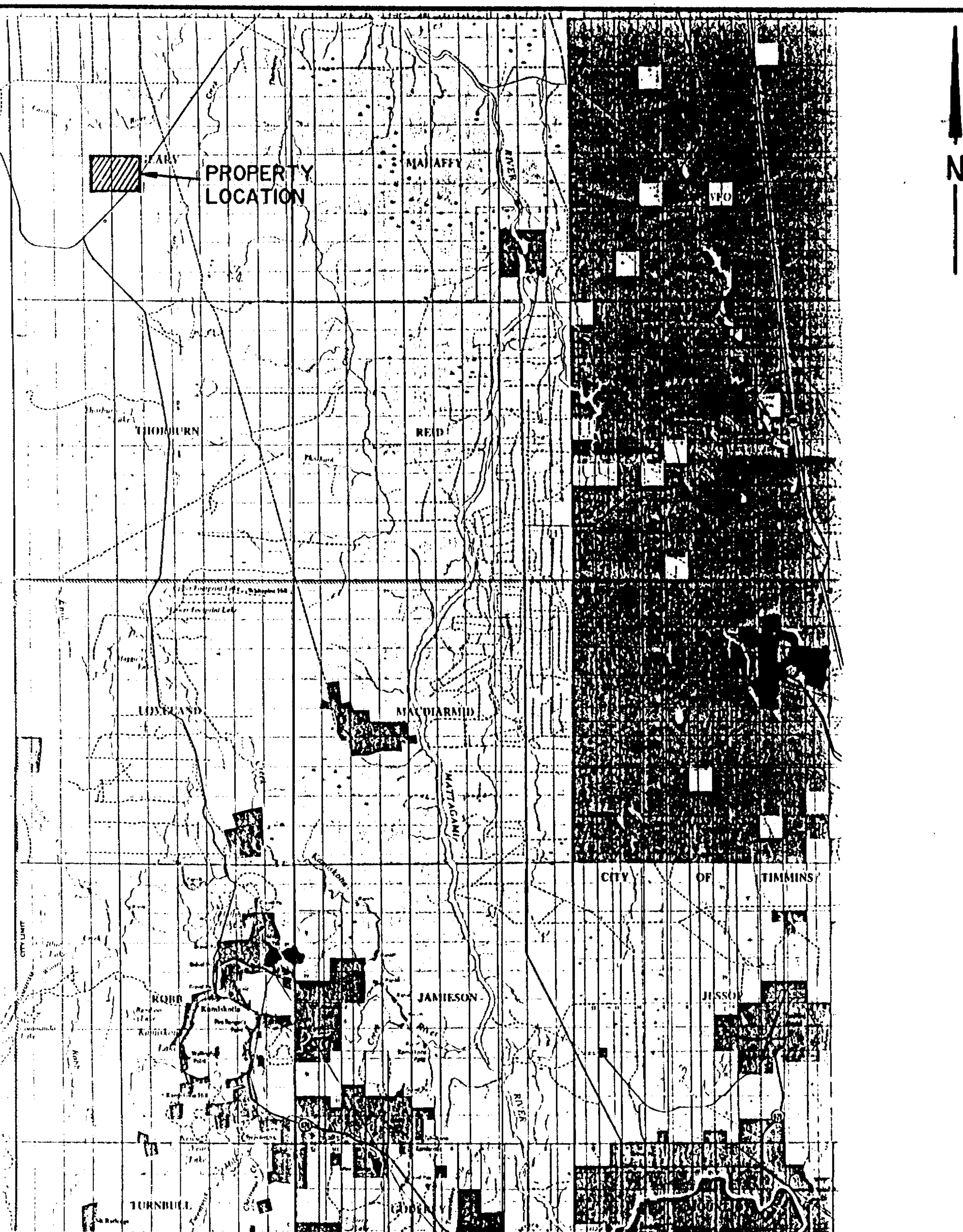
CLIENT: FALCONBRIDGE LIMITED

PROPERTY: GEARY TOWNSHIP PROPERTY

TITLE: AIRBORNE EM & TOTAL INTENSITY SURVEY

Fig. 3

Date: Aug. 1989	Scale: 1:20,000	NTS:
Drawn:	Interp: J. Grant	Job No. EE-252



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Telephone: 705-267-4151

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: GEARY TOWNSHIP PROPERTY

TITLE:

PROPERTY LOCATION

Fig. 2

Date: Aug. 1989	Scale: 1:200,000	NTS:
Drawn:	Interp: J. Grant	Job No. EE-252

Highway 101 west from the city will take one to the junction of 101 and Hwy 576 which travels north to the old Kamiskotia Mine. The gravel road was constructed approximately 2 kilometers west of the minesite and travels north through Loveland and Thorburn Townships, and through the southwest and northeast section of Geary Township.

The gravel road, although not maintained, is still driveable with two wheel vehicles. One should be aware of several washout areas when travelling to the property. (Figure 2)

MAGNETIC SURVEY

This survey was completed using the EDA Omni IV System and specifications for this unit can be found as Appendix A of this report.

The unit is capable of recording and storing magnetic values accurate to the decimal point, thus greatly improving the accuracy as well as the quality of the collected data.

A base station was established on the survey grid at a fixed point and this unit was tuned to a reference field of 58826 gammas. The field unit was also tuned at the same fixed point and set to the same reference field. The base station unit was set to record and store readings at 30 second intervals throughout the day to monitor any spiking or change in the earth's diurnal.

At the end of each day, the field unit and base station unit were coupled together and raw field data was dumped to the base station mag where it was merged.

The internal microprocesser then computes the dirunal variation in the earth's magnetic field for each survey grid coordinate by comparing the times at which readings were taken and computing any mid-internal values.

This correction is done during the data dump of the unit. The retrieved data is the correct data ready for plotting. This corrected data has had a background of 58000 gammas removed from each reading for ease in plotting.

A contoured base map of the magnetic data is included in the back pocket of this report.

HORIZONTAL LOOP SURVEY

This survey was completed using the MaxMin II System, manufactured by Apex Parametrics of Toronto. Specifications for this unit can be found as Appendix B of this report.

This survey is a two man continuously portable EM System which is designed to measure both the vertical and horizontal in-phase (IP) and quadrature phase (QP) components of the anomolous field from electrically conductive zones.

For this survey, a coil seperation between the receiver and transmitter operator was set at 150 meters, which would give a theoretical search depth ranging from 70 - 80 meters. The two frequencies chosen were the 1777 hz & 444 hz channels which in the past has proven to be quite successful in the surrounding areas.

The data was collected at the mid-point of the operators over the entire grid. One in-phase and quadrature value was recorded at each station.

This data was then directly plotted onto base maps. A seperate base map was done for each frequency.

The maps were set up at a scale of 1:5000 and all data was put on. The plot point is the mid-point between the operators which accounts for the 75 meter blanks at the end of each line. The data was then profiled at 1 cm to 20%.

These profile maps are included in the back pocket of this report.

SURVEY RESULTS

The geophysical surveys were successful in outlining several EM targets on the grid.

Each of these zones will be discussed seperately and in detail below. The results will concentrate on the main feature with consideration given to the two minor zones. Each feature will be interpreted along with any magnetic signatures.

CONDUCTIVE ZONES:

Certainly the most prevelant feature on the grid is the EM response striking at 280 degrees from line 1400ME/250MN up to line 1200MN/400MN and continues off of the grid to the west. This feature appears to be dipping slightly north to near vertical with a good conductivity range of 24 mhos to 60 mhos at a depth of 50 to 65 meters.

The conductor has good magnetic signature along its entire strike length. Although it is a somewhat spotty correlation, it does appear to be consistent.

The zone appears to be shallower across lines 500MW and 300MW and share a stronger conductivity. This may suggest an undulating overburden thickness or heavier concentrations of sulphide mineralization.

It should also be noted that the zone is strengthening to the west as it strikes off of the survey grid.

There may also be evidence of slight faulting or shearing along strike between lines 800MW and 900MW however, there is no indication of this in the magnetic contours. The strong elongated bullseye mag feature striking along the zone between lines 1100MW to 950MW may in fact relate to a sulphide occurrence which has been mapped in the vicinity. Refer to Figure 5 - Timmins, Kirkland Lake, Geological Compilation Series Map 2205.

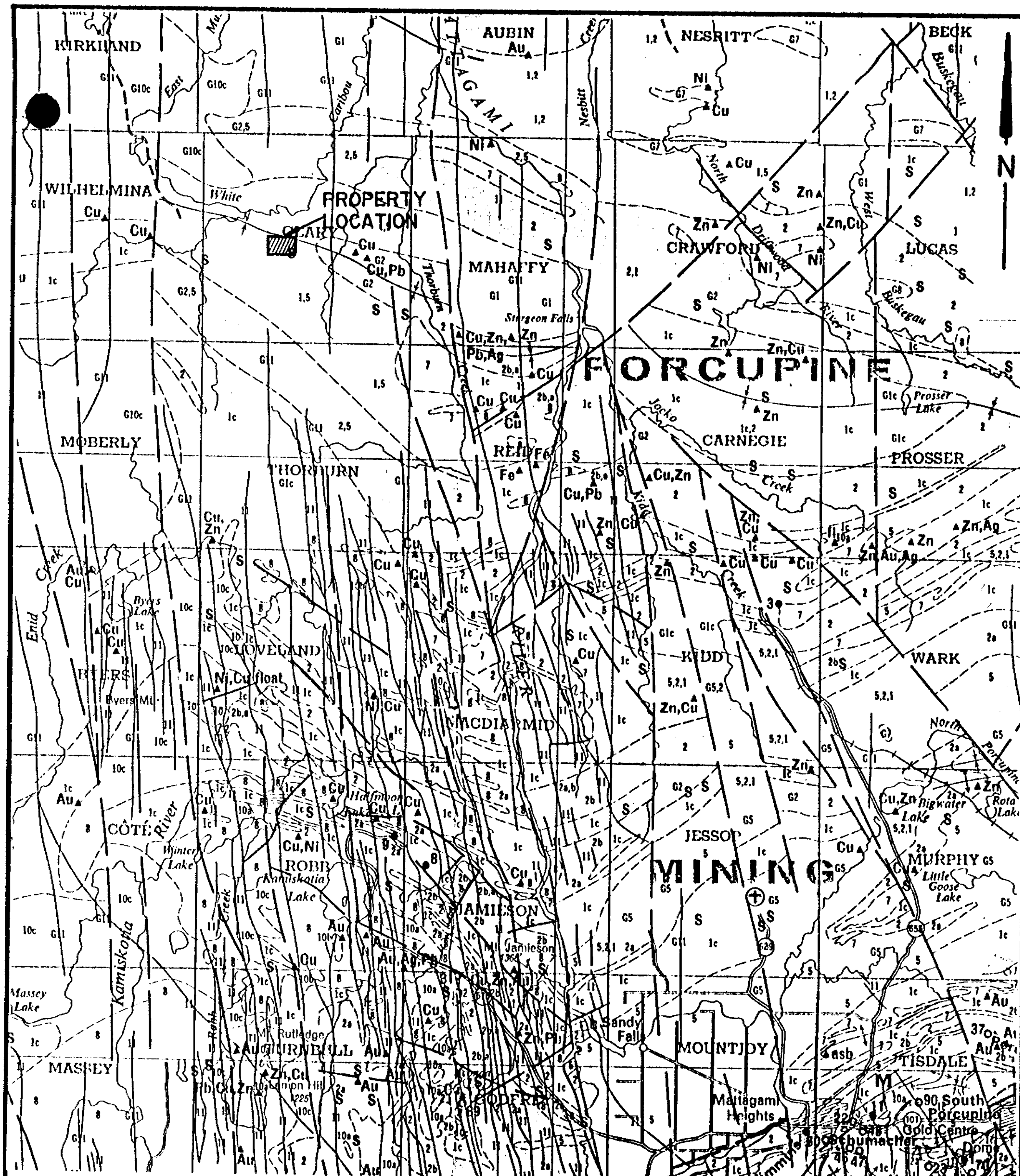
A second weaker EM zone was located striking east across lines 300ME to 400ME and off of the grid.

This feature is flanked by an extreme magnetic high structure immediately to the south.

This zone is most probably the west extension of an airborne target which is just east of grid.

There is evidence of a diabase dike running north-south which parallels line 100ME. This dike has been well defined by the ground magnetics survey.

A third zone was noted striking at 255 degrees across lines 200MW to 400MW. This feature is a questionable response which may relate to conductive overburden. There does not appear to be any definite magnetic correlation with this zone.



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CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	GEARY TOWNSHIP PROPERTY

TITLE:

AREA GEOLOGY

Timmins - Kirkland Lake O.G.S. map 2205 Fig. 5

Date: Aug. 1989	Scale: 1"=4miles	NTS:
Drawn: P.G.	Interp: J. Grant	Job No. EE-252

CONDUCTOR CHARACTERISTICS IN TABLE FORM

ZONE A:

Line/ Station	Dip	Depth	Conductivity	Width	Mag Correlation
0100/222MN	North	47-63M	6-24 mhos	Normal	Direct
100MW/212MN	Vertical	46-60M	3- 8 mhos	Normal	Direct
200MW/250MN	North	36-51M	9-42 mhos	20-25M	Direct
400MW/270MN	Vertical	41-63M	6-32 mhos	Normal	Direct
500MW/287MN	North to Vertical	40-50M	5-12 mhos	12-15M	Direct
600MW/300MN	Vertical	63M	18 mhos	12-15M	Direct to North Flanking
1100MW/375MN	Vertical	45-50M	15-60 mhos	15-20M	Direct
1200MW/400MN	Vertical	65M	58 mhos	15-20M	Direct

ZONE B:

400ME/545MN	South	10M	2 mhos	Normal	South Flanking

ZONE C: No Definite Response Achieved.

Note: Widths of conductors are estimates at best. The conductor has normal width as would be expected using a 150M coil seperation.

CONCLUSIONS

The ground surveys were successful in locating and outlining the airborne target. They were also successful in locating a second airborne feature striking into the grid from the east. Both of these features have good magnetic signature as well as similar depths and mho values.

The magnetic survey proved the existence of a north-south striking dike along L100ME which may have caused some shifting or faulting. Taking this into account, the EM zone striking into the grid from the east and the main EM feature may relate to the same source.

The third response, at this writing, should be considered as a low priority as it may relate to conductive overburden layering.

<u>RECOMMENDATIONS</u>

Certainly the main feature should be considered in any drill program. Line 400MW is a good representative of the zone and would make an ideal test line for drilling. Line 1100MW should also be considered, however, the eastern extension of the zone is somewhat weak and the western extension is unknown as it is off of the grid. There may be a sulphide occurrence in the area which should be prospected before a drill site is established.

The second feature should be considered for drilling, should the initial drilling prove encouraging.

The third feature need not be considered at this time unless the geology is favourable or initial drilling is proven successful.

Stripping and trenching may be considered if the sulphide occurrence is located. This type of program may explain the conductors and save drilling time and costs.

Respectfully Submitted,

J.C. Grant
F.G.A.C., C.E.T.

GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
· FELLOW ·

CERTIFICATE OF QUALIFICATIONS

I, John Charles Grant do hereby certify:

1. that I am a geophysicist and reside at Lot 2 Martineau Avenue, Kamiskotia Lake, Timmins, Ontario.

2. that I am a Fellow of the Geological Association of Canada.

3. that I am a member of the Certified Engineering Technologist Association.

4. that I graduated from Cambrian College of Applied Arts and Technology, Sudbury Campus in 1975 with an Honour's diploma in Geology Technology.

5. that I have practised my profession continuously for 13 years.

6. that my report on GEARY TOWNSHIP PROPERTY,for FALCONBRIDGE LTD, PORCUPINE MINING DIVISION, is based on work carried out under my supervision.

4\. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

Dated this 25th day of August, 1989 at Timmins, Ontario

John C. Grant, C.E.T., F.G.A.C.

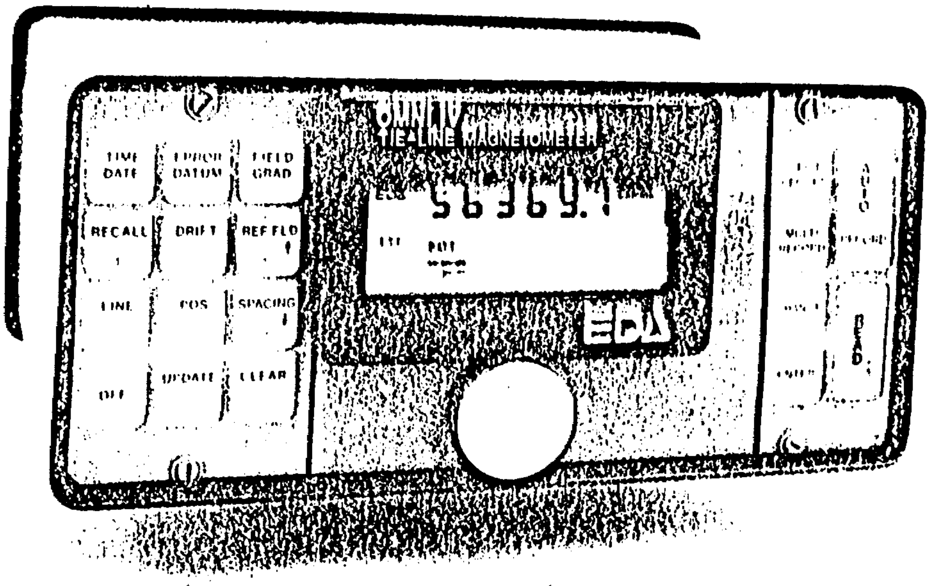
GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

APPENDICES

APPENDIX A

OMNI IV "Tie-Line" Magnetometer

EDA



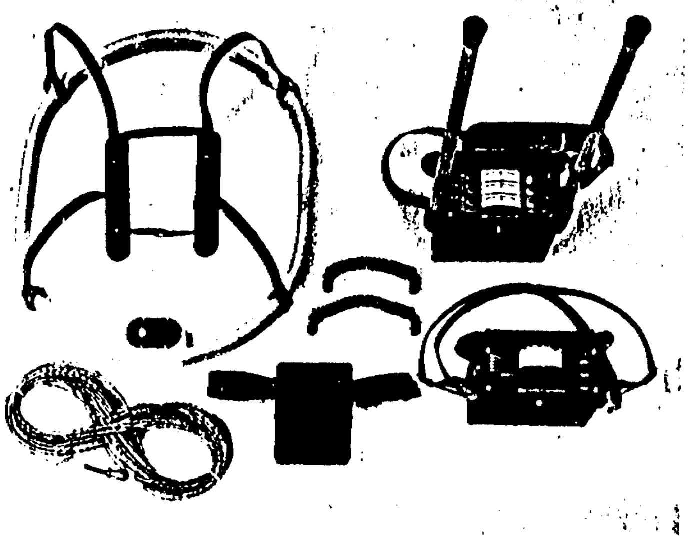
OMNI IV's Major Benefits

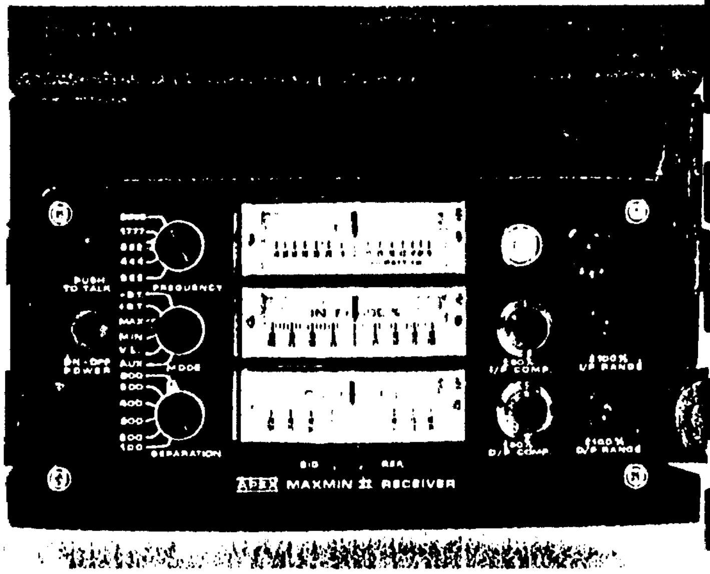
- Four Magnetometers In One
- Self Correcting for Diurnal Variations
- Reduced Instrumentation Requirements
- 25% Weight Reduction
- User Friendly Keypad Operation
- Universal Computer Interface
- Comprehensive Software Packages

APPENDIX B

APEX MAXMIN II PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.





SPECIFICATIONS:

Frequencies: 222, 444, 888, 1777 and 3555 Hz.

Modes of Operation:
MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer.cable.
MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
V.L.: Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25, 50, 100, 150, 200 & 250m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF). Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90mm edgewise meters in V.L. mode.

Scale Ranges:
In-Phase: ±20%, ±100% by pushbutton switch.
Quadrature: ±20%, ±100% by pushbutton switch.
Tilt: ±75% slope.
Null (V.L.): Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.25 % to 0.5 %; Tilt: 1%.

Repeatability: ±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.

Transmitter Output:
- 222Hz : 220 Atm²
- 444Hz : 200 Atm²
- 888Hz : 120 Atm²
- 1777Hz : 60 Atm²
- 3555Hz : 30 Atm²

Receiver Batteries: 9V trans. radio type batteries (4). Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

Transmitter Batteries: 12V 6Ah Gel-type rechargeable battery. (Charger supplied).

Reference Cable: Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Voice Link: Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

Indicator Lights: Built-in signal and reference warning lights to indicate erroneous readings.

Temperature Range: -40°C to +60°C (-40°F to +140°F).

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification

APEX PARAMETRICS LIMITED
200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

Phone: (416) 495-1612 Cables: APEXPARA TORONTO Telex: 06-966773 NORDVIK TOR

APPENDIX C

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File 2.12837

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) MAXMIN; MAGNETIC SURVEYS

Township or Area GEARY TOWNSHIP

Claim Holder(s) FALCONBRIDGE LTD.

Timmins, Ont.

Survey Company Exsics Exp. Ltd.

Author of Report John C. Grant

Address of Author P.O. Box 1880, Timmins, Ont.

Covering Dates of Survey June 23/89 - Aug 22/89 (linecutting to office)

Total Miles of Line Cut 26.8 Km (16.6 miles)

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P-	1030606
	1030607
	1030608
	1030609
	1030610
	1030611
	1030614
	1030615
	1030616
	1033331
	1033332
	1033333
	1033334
	1033335

If space insufficient, attach list

TOTAL CLAIMS 14

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	20
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

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

Magnetometer ______ Electromagnetic ______ Radiometric ______
(enter days per claim)

DATE: Aug 22/89 SIGNATURE: [signature] JOHN GRANT Author of Report or Agent

GEOLOGICAL ASSOCIATION OF CANADA · FELLOW ·

Res. Geol. ______ Qualifications 2.5347

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1072 Number of Readings 5360

Station interval 25m Line spacing 100M

Profile scale 1cm to 20%.

Contour interval 100 GAMMAS

MAGNETIC

Instrument EDA OMNI IV SYSTEM

Accuracy – Scale constant ± .5 GAMMA.

Diurnal correction method BASE STATION.

Base Station check-in interval (hours) 30 SEC RECORDING TIME.

Base Station location and value L0/BL 58826 GAMMAS

ELECTROMAGNETIC

Instrument APEX MAX-MIN II HORIZONTAL LOOP SYSTEM

Coil configuration CO-PLANER

Coil separation 150 M.

Accuracy ± 1%.

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 1777 HZ & 444 HZ (specify V.L.F. station)

Parameters measured ONE INPHASE & ONE QUADRATURE.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

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 __________

W 890600508

Ministry of Northern Development and Mines

Ontario

2.128

Mining Act

Report of Work
(Geophysical, Geological and Geochemical

42A13SE0006 2.12837 GEARY

900

Type of Survey(s)	Mining Division	Township or Area
MAXMIN; MAGNETIC SURVEYS	PORCUPINE	GEARY TOWNSHIP

Recorded Holder(s): FALCONBRIDGE LIMITED

Prospector's Licence No.: A21647

Address: 571 MONETA AVE., P.O. BOX 1140, TIMMINS, ONT., P4N 7H9

Telephone No.: (705) 267-1188

Survey Company: EXSICS EXPLORATION LIMITED

Name and Address of Author (of Geo-Technical Report): JOHN GRANT P.O. BOX 1880, TIMMINS, ONT., P4N 7X1

Date of Survey (from & to): 23 06 89 22 08 89

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days		**Days per Claim**
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		**Days per Claim**
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date: Oct.12,1989

Recorded Holder or Agent (Signature): P. Roos

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Prefix	Number	Prefix	Number
P	1030606				
	1030607				
	1030608				
	1030609				
	1030610				
	1030611				
	1030614				
	1030615				
	1030616				
	1033331				
	1033332				
	1033333				
	1033334				
	1033335				

Total number of mining claims covered by this report of work. 14

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: PAUL ROOS c/o FALCONBRIDGE LIMITED P.O.BOX 1140, TIMMINS, ONT., P4N 7H9

Telephone No.: (705) 267-1188

Date: Oct.12, 1989

Certified By (Signature): P. Roos

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

Received Stamp

PORCUPINE MINING DIVISION
RECEIVED
OCT 26 1989

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

February 26, 1990

Your File: W8906-508
Our File: 2.12837

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR - 5 1990
RECEIVED

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Re: Notice of Intent dated January 24, 1990 for Geophysical (Electromagnetic & Magnetometer) Surveys submitted on Mining Claims P 1030606-611 et al Township of Geary.

The assessment work credits, as listed with the above-mentioned Notice of Intent have been approved as of the above date.

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

Yours sincerely,

Blair Kite

for W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

DM
DM:pt
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

John Grant
Timmins, Ontario

Falconbridge Limited
Timmins, Ontario

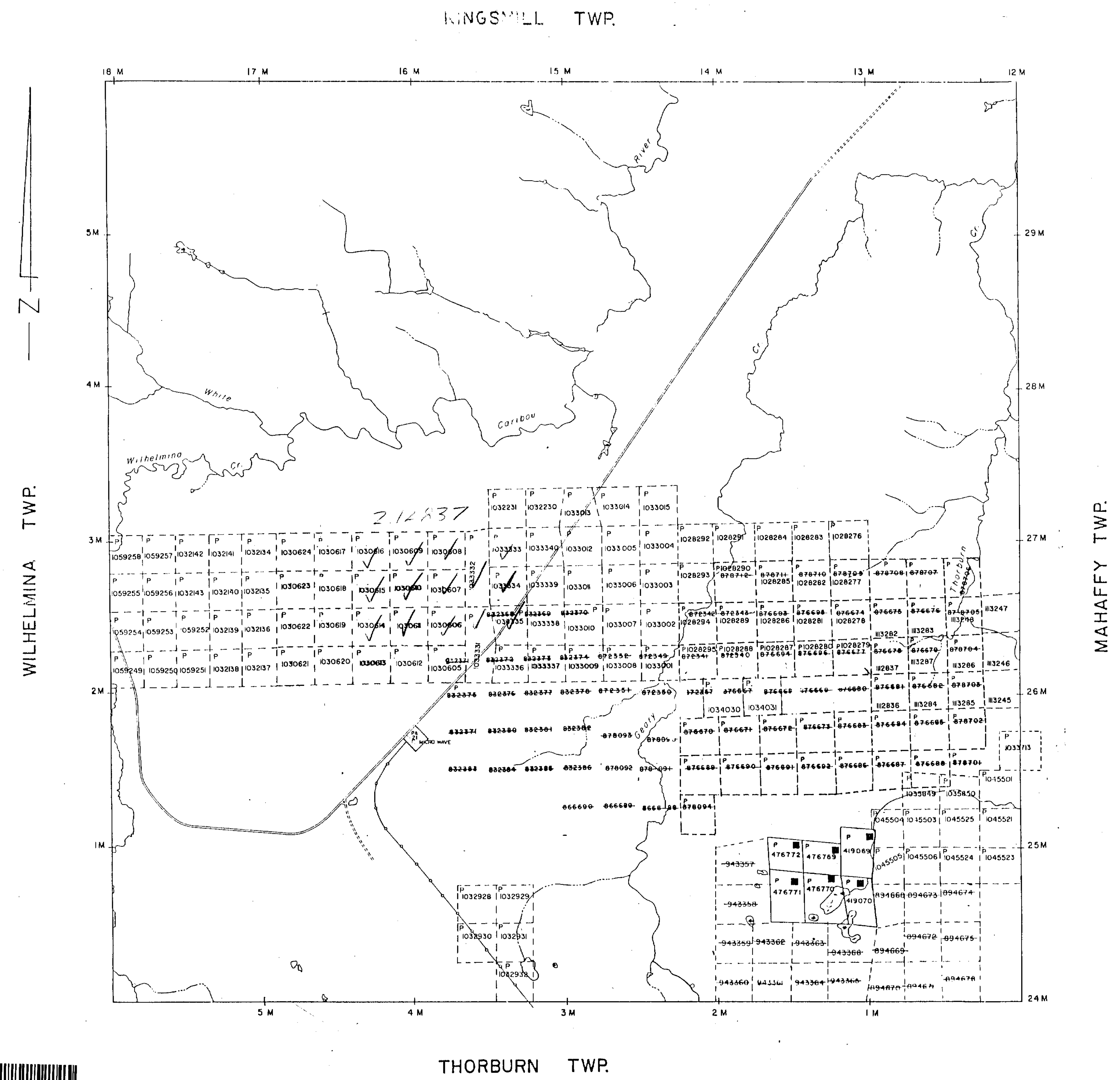
Resident Geologist
Timmins, Ontario

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES:
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

PATENT, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCIL
RESERVATION
CANCELLED
SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000 (2 KM)

TOWNSHIP

GEARY

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

MAY 26 1987

Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario

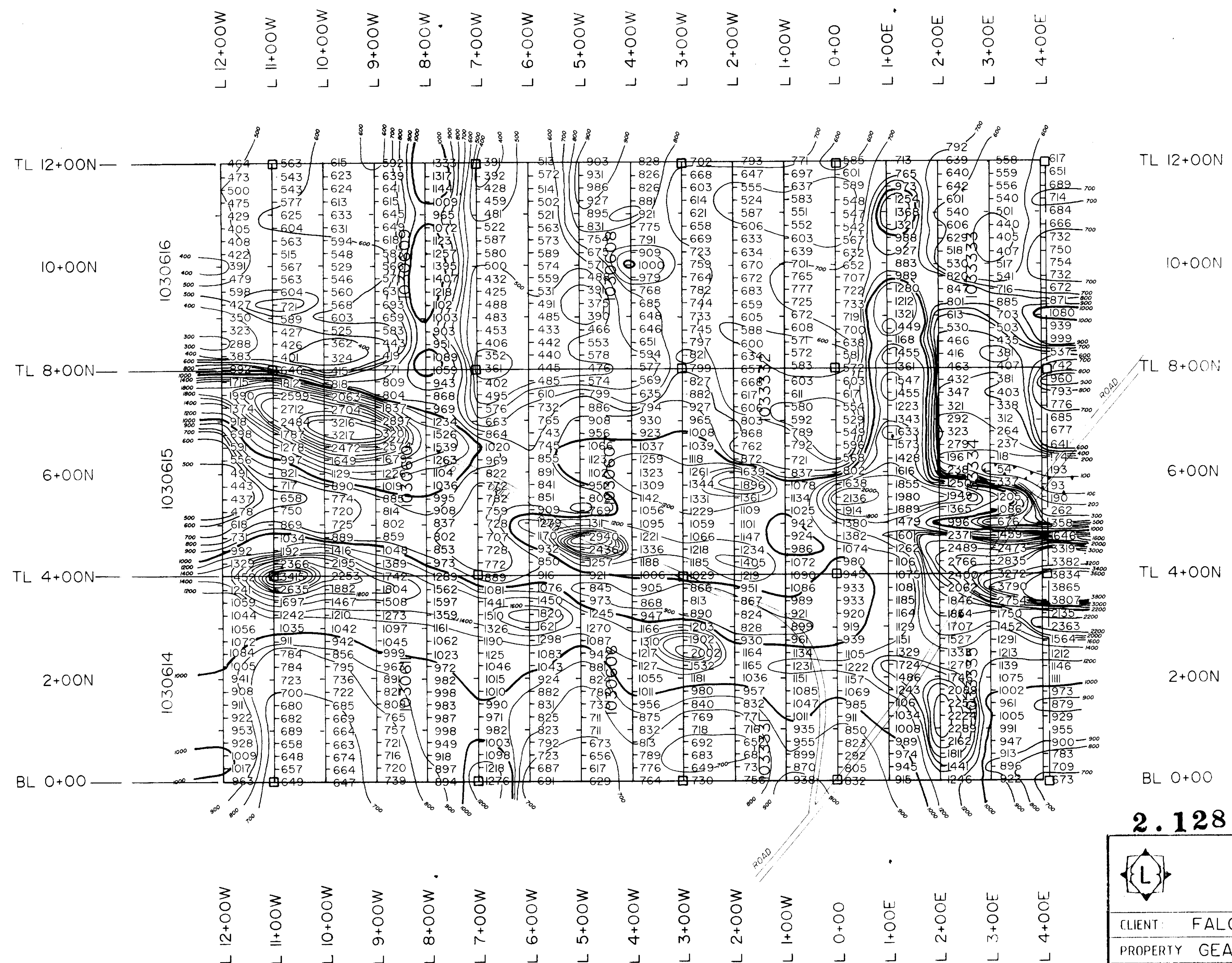
Date NOVEMBER 1986

Checked Feb 23/87 LP

Number G-3503

42A13SE0006 2.12837 GEARY

200



2.12837

LEGEND

Instrument: EDA OMNI-IV
Parametres Measured: Earth's total magnetic field
Accuracy: +/- 1 nano-teslas
Diurnals: Corrected by base station recorder
Contour Interval: 0,100,200,300,400,.......
Reference Field: 58,826
Datum Subtracted: 58,000

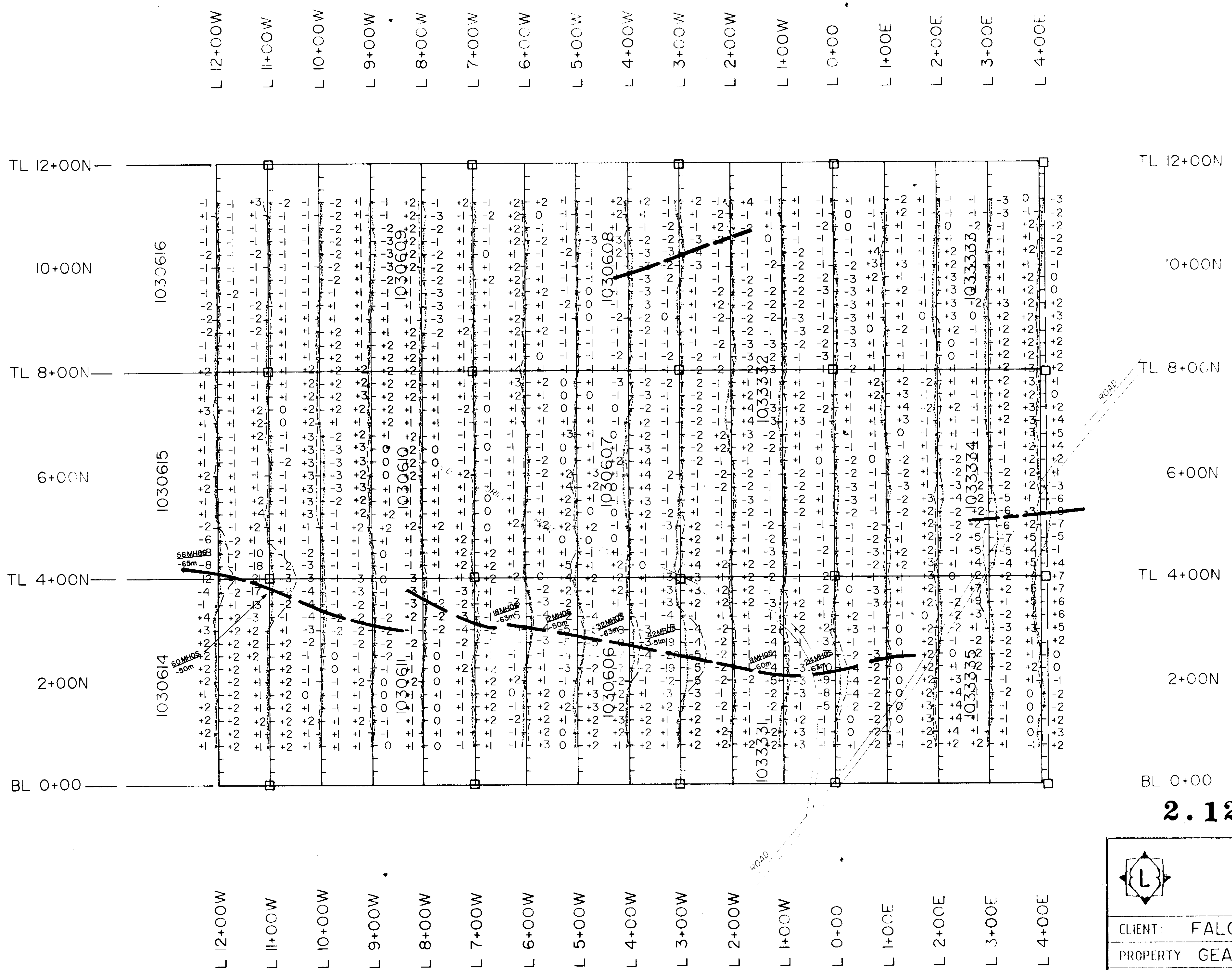
EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont
Telephone: 705-267-4151

GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY	GEARY TOWNSHIP PROPERTY
TITLE	CONTOURED MAGNETOMETER SURVEY

Date: June 1989	Scale: 1:5000	NTS
Drawn: P.G.	Interp	Job No EE-252

42A13SE0006 2.12837 GEARY



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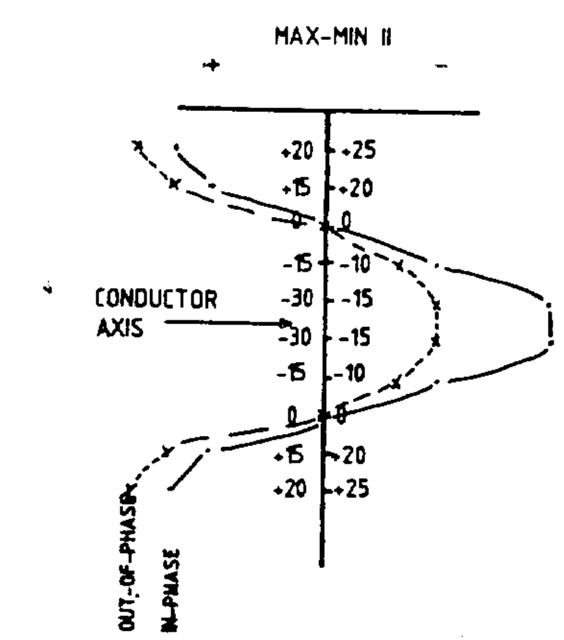

LEGEND

INSTRUMENT: Apex Parametrics Max-Min 11
MODE: Maximum Coupled, Horizontal Loop Survey
PARAMETRES MEASURED: Inphase (%)
Out of phase (%)
FREQUENCY: 444 HZ
COIL SEPARATION: 150m
OPERATOR: EXSICS
PROFILE SCALE: 1cm=20%

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Telephone 705-267-4151

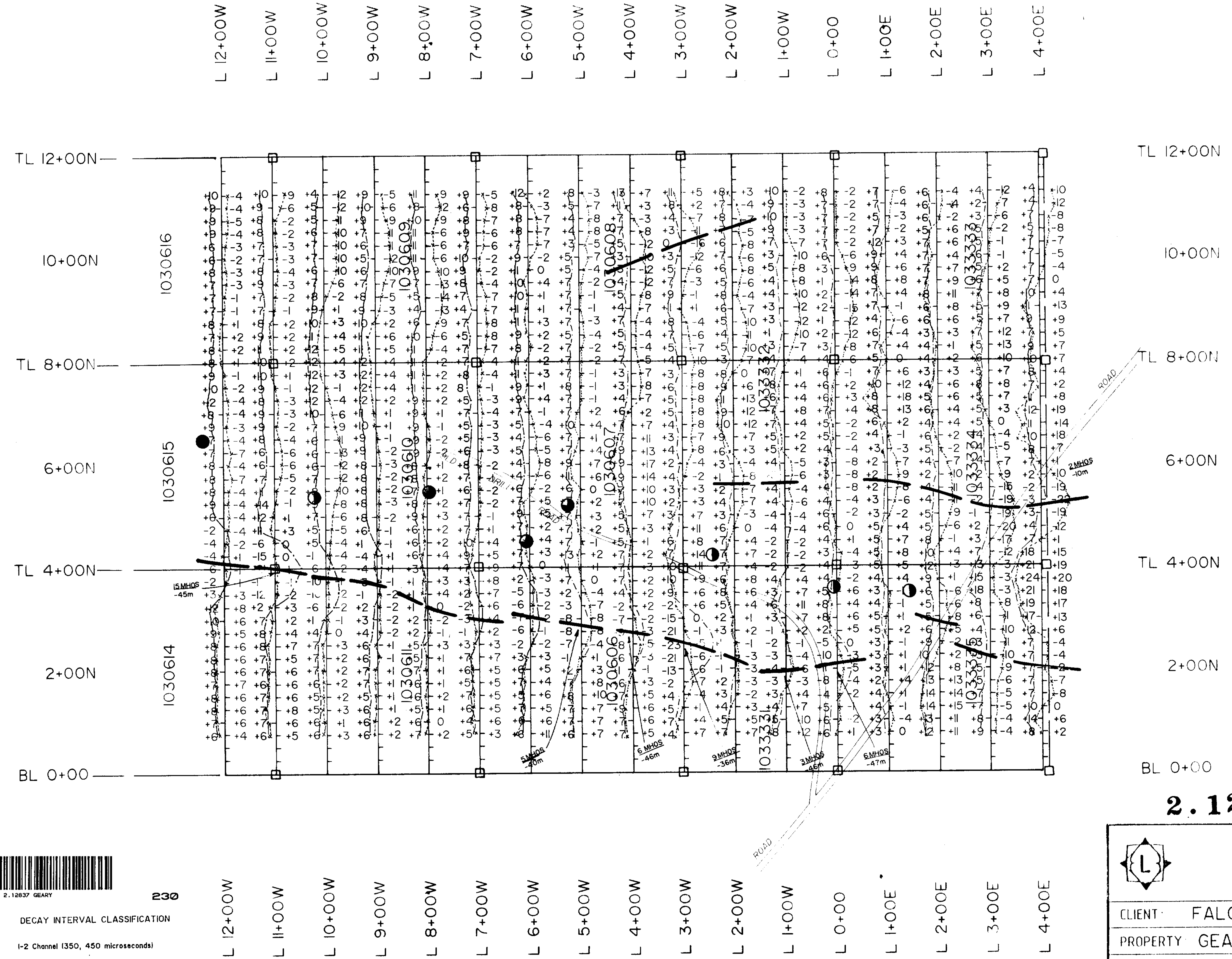
GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

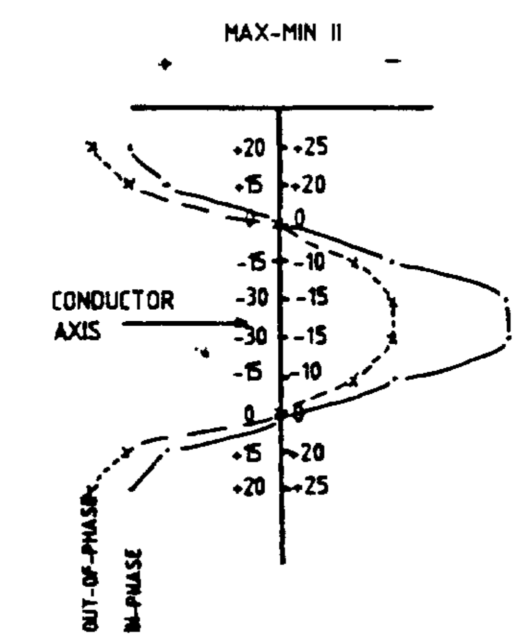
CLIENT: FALCONBRIDGE LIMITED
PROPERTY: GEARY TOWNSHIP PROPERTY
TITLE:

MAX-MIN II 444 Hz

Date June 1989	Scale 1:5000	NTS
Drawn. P.G.	Interp	Job No EE-252

220





LEGEND

INSTRUMENT: Apex Parametrics Max-Min 11
MODE: Maximum Coupled, Horizontal Loop Survey
PARAMETRES MEASURED: Inphase (%)
Out of phase (%)
FREQUENCY: 1777 Hz
COIL SEPARATION: 150m
OPERATOR: EXSICS
PROFILE SCALE: 1cm=20%

2.12837

EXSICS EXPLORATION LTD
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

GEOLOGICAL ASSOCIATION OF CANADA · FELLOW · JOHN GRANT

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: GEARY TOWNSHIP PROPERTY
TITLE: MAX-MIN II 1777 Hz

Date: June 1989	Scale: 1:5000	NTS
Drawn: P.G.	Interp	Job No EE-252

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AIRBORNE ANOMALY — DECAY INTERVAL CLASSIFICATION

- 1-2 Channel (350, 450 microseconds)
- 3-4 Channel (550, 670 microseconds)
- 5-6 Channel (790, 910 microseconds)
- 7-8 Channel (1050, 1190 microseconds)
- 9-10 Channel (1350, 1510 microseconds)
- 11-12 Channel (1680, 1870 microseconds)