010

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
MANN BELT
GRID #MAN96-07
MANN TOWNSHIP, PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO

2.16646

Qual. # 2.3943

PREPARED BY: J.C.Grant, CET, FGAC
March, 1996

TABLE OF CONTENTS

INTRODUCTION

The services of Exsics Exploration Limited were retained by Falconbridge Limited to complete a line cutting and geophysical program on a group of claims located in Mann Township, Grid #Man96-07, of the Porcupine Mining Division in Norteastern Ontario. Figure 1 and 2.

The purpose of this program was to locate and outline airborne targets in an area which was considered favourable for base metal deposition.

The linecutting of the grid began on January24th,1996 and was completed on February 16, 1996. The geophysics was started on the 14th of February and was completed on the 22nd of February,1996. In all, a total of 39.5 kilometers of grid lines were established on the claim group.

PROPERTY LOCATION AND ACCESS

Grid, Man96-07, is located in the central-east section of Mann Township and the central west section of Newmarket Township. The grid generally covers portions of Lots 1 and 2, in Concession II and III of Mann Township and portions of Lot12, Concession II and III of Newmarket Township.. The entire grid is located approximately 25 kilometers northwest of the Town of Iroquois Falls. Figure 2.

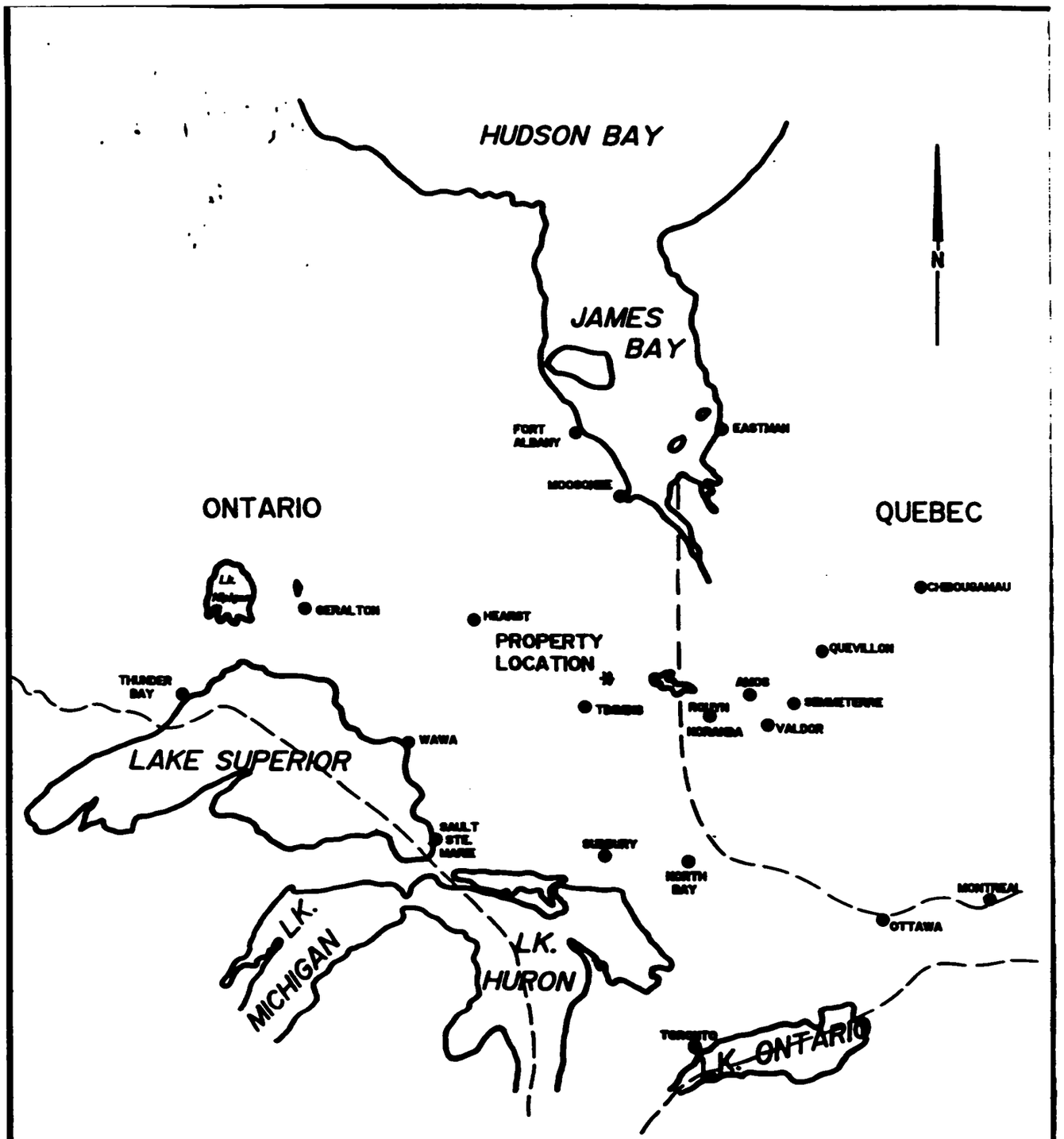
Access to the grid during the survey period was ideal. Falconbridge Limited has plowed open a drivable road which commences on Highway 11 North at the junction of Concession V and VI. This plowed road runs west along the concession line to an old bridge across the Fredrick House River. A second plowed road was then pushed to the southeast to access the southeast section of the grid. Travelling time from Timmins to the grid is approximately 2.2 hours.

CLAIM GROUP

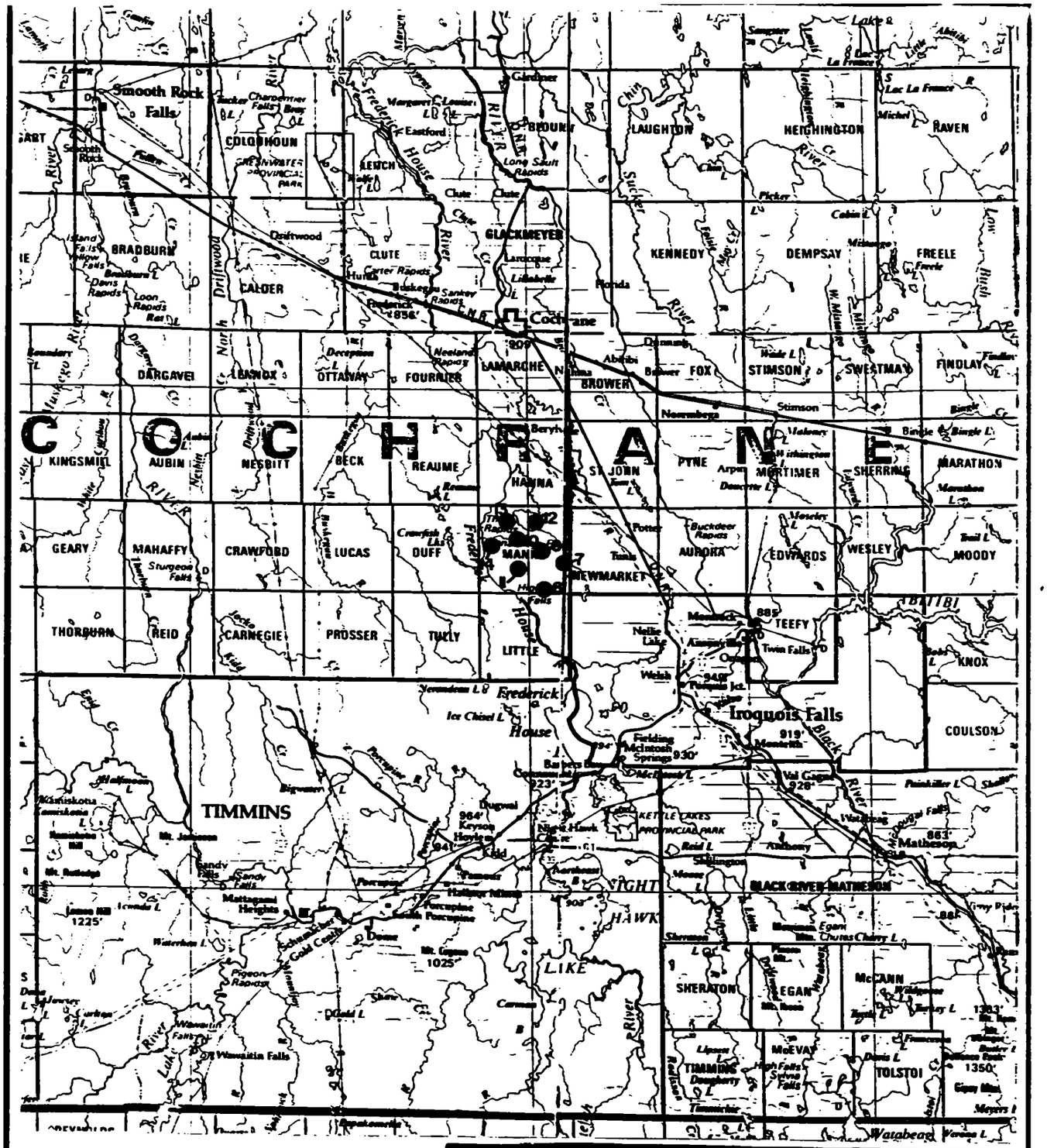
The claim numbers which were partially covered by the grid are as follows.

P-1200922	16 units,Mann Twp.
P-1200923	16 units,Mann Twp.
P-1200917	8 units,Newmarket Twp.
P-1200945	6 units,Newmarket Twp.

Refer to figure 3, copied from the MNDM Plan map #G-3537, of Mann Township and MNDM Plan map of Newmarket Township, scale 1:20,000.



EXSICS EXPLORATION LTD.		
CLIENT:	FALCONBRIDGE LIMITED	
PROPERTY:	MANN BELT PN 8269	
TITLE:	MANN TWP LOCATION MAP	Fig. 1
Date: Feb. 1996	Scale: 1"=125miles	MNDM Plan#:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-145



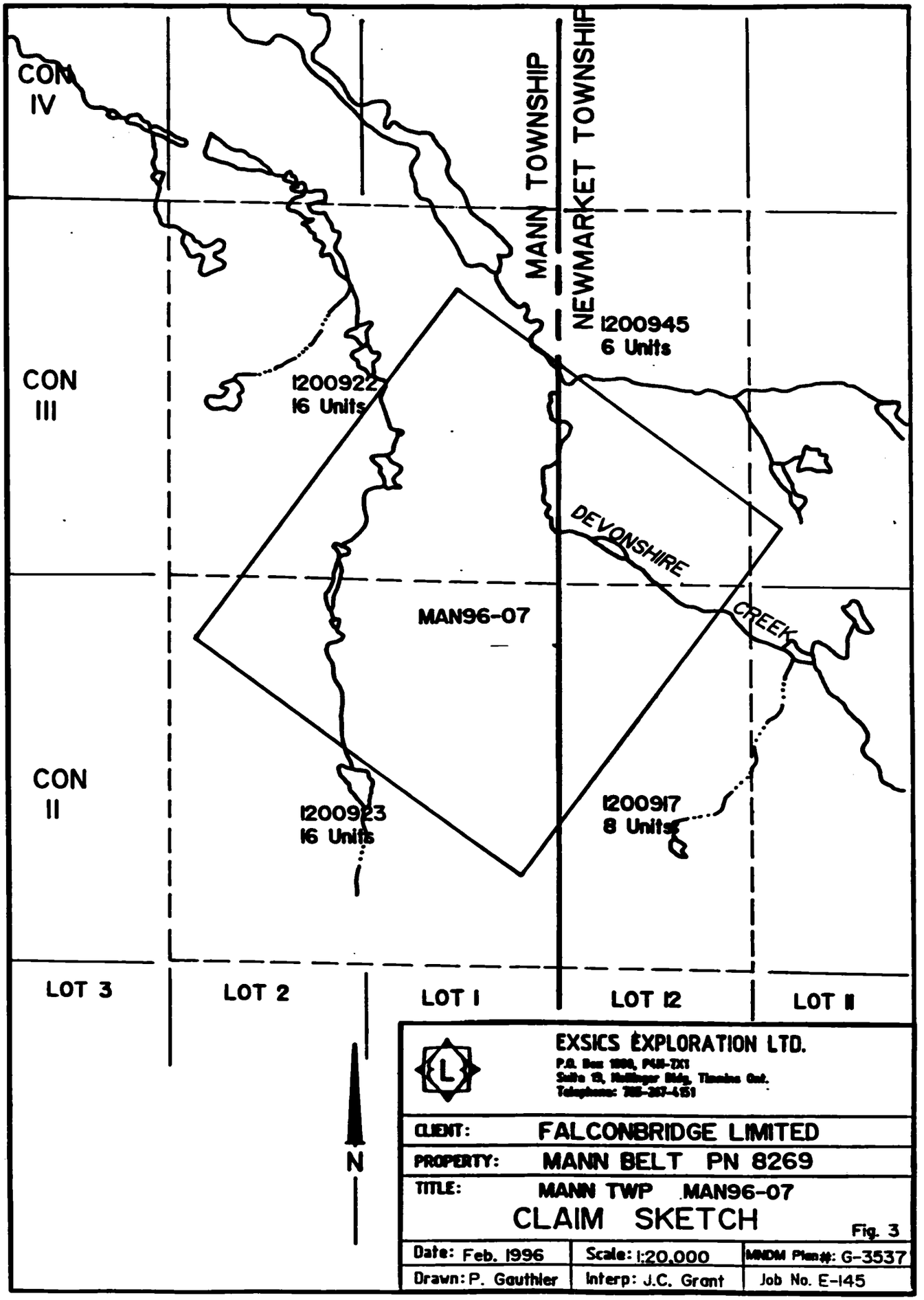
EXSICS EXPLORATION LTD.
P.O. Box 1000, PUR-2X1
Suite 18, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	MANN BELT PN 8269
TITLE:	MANN TWP

PROPERTY LOCATION

Fig. 2

Date: Feb. 1996	Scale: 1:600,000	MNDM Plan#: 22-6
Drawn:	Interp: J.C. Grant	Job No. E-145


CON IV
CON III
CON II
MANN TOWNSHIP
NEWMARKET TOWNSHIP
1200945
6 Units
1200922
16 Units
DEVONSHIRE
CREEK
MAN96-07
1200923
16 Units
1200917
8 Units
LOT 3
LOT 2
LOT 1
LOT 12
LOT 11
N
EXSICS EXPLORATION LTD.
CLIENT: FALCONBRIDGE LIMITED
PROPERTY: MANN BELT PN 8269
TITLE: MANN TWP MAN96-07
CLAIM SKETCH
Fig. 3
Date: Feb. 1996
Scale: 1:20,000
MNDM Plan#: G-3537
Drawn: P. Gauthier
Interp: J.C. Grant
Job No. E-145

PERSONNEL

The field crew directly responsible for the collection of all data were as follows:

Richard Mathieu..... Timmins, Ontario
Robin Mathieu..... Timmins, Ontario
Todd Mathieu..... Timmins, Ontario

The geophysical program was completed under the direct supervision of J.C.Grant and all plotting and computor compilation was completed by P. Gauthier of Exsics.

LINECUTTING PROGRAM

The grid consisted of 100 meter line spacing and 25 meter station spacing. The baseline was turned off from a starting point which han been located by Falconbridge personnel. This point was called line 0+00, baseline. The baseline was then cut at 130 degrees from line 900MW to 800ME with these cross lines being chained from the baseline to TL 1800MN. two additional tielines were cut at 600MN and 1200MN to control the cross lines.

GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey done in conjuction with a Horizontal Loop, electromagnetic, HLEM, survey. The magnetic survey was completed on the entire cut grid however the HLEM survey was completed on the cross lines only.

The magnetic survey was completed using the BRGM, OMNI IV system. Specifications for this system can be found as Appendix A of this report. The HLEM survey was completed using the Apex Parameterics, MaxMIn II system. Specifications for this system can be found as Appendix B of this report.

MAGNETIC SURVEY:

The following parameters were kept constant throughout the survey.

Linespacing..... 100 meters
Station spacing..... 25 meters
Reading interval..... 12.5 meters
Diurnal monitior..... Base station recorder
record interval..... 30 seconds
Reference field..... 57960 gammas
Datum subtract..... 57500 gammas
Unit accuracy..... +/- 0.1 gamma
Parameters measured..... Earth's total magnetic field

The collected, corrected and levelled data was then plotted directly onto a base map at a scale of 1:5000 and then contoured at 20 gamma intervals where possible. A copy of this base map is included in the back pocket of this report.

HLEM SURVEY:

The following parameters were kept constant throughout the survey.

Linespacing	100 meters
Station spacing	25 meters
Reading interval	25 meters
Coil seperation	150 meters
Theoretical search depth	75-85 meters
Frequencies recorded	1777hz, 444hz
Parameters measured	inphase and quadrature components of the secondary field.
Unit accuracy	+/- 0.5 percent

The collected data was then plotted directly onto a base map at a scale of 1:5000, one base map for each frequency, and then profiled at 1cm to +/-20%. An interpretation for each line of the conductor was done as far as depth to source and apparent conductivity in Mhos and was put directly onto the base map. A copy of these base maps are included in the back pocket of this report.

SURVEY RESULTS

The geophysical program was successful in locating and outlining a number of conductive zones on the grid. The zones have been labelled from A to F for interpretation purposes and each of the zones will be discussed in detail.

ZONE A:

This zone represents a moderate bedrock conductor situated at a depth of 15 to 35 meters and with a conductivity range of 5 to 8 mhos. The zone appears to continue off of the grid to the west.

There is good magnetic association with the strike of the zone. The high magnetic readings are due to the entire zone being contained within a massive ultramafic unit which generally underlays the entire cut grid. Infact, the influence of the ultramafics may be affecting the MaxMin penetration and readings.

ZONE B:

This conductor generally parallels the strike of Zone A and appears to continue off of the grid to the east. The strike of the zone has been interrupted across lines 300MW and 200ME by minor cross structures which shifted the zone slightly to the north and to the south. The zone appears to represent a moderate to weak zone situated at a depth of 37 to 40 meters and with a conductivity value of 4 mhos. Again, the underlaing ultramafic unit may be masking the true value of this zone.

The western extension of the zone has a moderate magnetic high association showing in the magnetic contouring as slight pinching in the general pattern of the unit. The central section of the zone lies along the southern edge of a good magnetic high unit whih is well defined by the magnetic survey. The eastern extension of the zone lies along the north edge of a magnetic low unit.

There does appear to be a cross structure cutting the zone in a north-south direction which seems to have shifted the eastern extension of the zone to the southwest.

ZONE C:

This zone commences on the east side of the north-south cross structure which affected the strike of Zone B. The zone is situated at a depth of 30 meters and has a moderate conductivity value of 7 mhos. The zone may continue off of the grid to the east.

The magnetic survey suggest the zone may have a magnetic high association on it's western tip but this may be due to it's clossness to the cross structure. Generally the zone has a magnetic low association with the majority of it's strike length. The eastern extension of the zone cuts across the southern flank of a broad magnetic high unit.

ZONE D:

This feature closely parallels the strike of zone C. At this writing, the zone appears to be a weak structural target or infact may relate to topography. The western extension of the zone has direct magnetic association however, the eastern section of the grid lies along the souther contact of a mag high unit and then cross a magnetic high unit as it continues off of the grid to the east.

ZONE D'

This feature appears to represent a splay off of the main zone D. It relates to a bedrock conductor situated at a depth of 55 meter with a conductivity value of 10 mhos. The zone also has good direct magnetic association.

ZONE E:

This zone was just noted on the grid north ends of lines 700MW to 300MW. At this writing the zone would require further coverage to the north to better define it's source.

ZONE F:

This zone represent a weak questionable zone or possibly a target situated at a depth to great for the present survey. The zone relates to a narrow magnetic high unit which seems to parallel the strike of the ultramafic intrusive. Infact, the zone may relate to a contact within the intrusive unit. Again, the influence of the underlaying intrusive may be affecting the penetration capabilities of the HLEM survey.

CONCLUSIONS AND RECOMMENDATIONS

The overall magnetic survey results suggest the entire property is underlain by a massive ultramafic intrusive which may be affecting the penetration of the HLEM survey and thus not allowing for a proper definition of the suspected conductive zones.

Several of the conductive zones appear to relate to legitimate bedrock conductors however, they are probably being masked by the intrusive layering. The magnetics for the same zones would suggest that the property has been subjected to minor folding and faulting within the intrusive unit.

Should a follow-up program be considered for the property then it should consist of a deep penetrating survey which would not be affected by the intrusive layering.

Respectfully submitted

J.C.Grant, CET, FGAC.
March, 1996.

CERTIFICATE

I, John C. Grant, hereby certify that:

1) I am a graduate geophysicist (1975) of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology, Sudbury, Campus. I have worked subsequentely as an Exploration Geophysicist for Teck Exploration Limited (5 years), North Bay office, and as Exploration Manager and Geophysicist for Exsics Exploration Limited from 1980 to present.

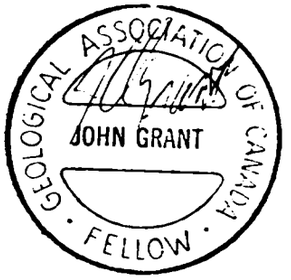
2) I am a Member of the Certified Engineering Technologist Association since 1984.

3) I am a member of the Geological Association of Canada.

4) I have been actively engaged in my profession for the last twenty (20) years, including all aspects of exploration studies, surveys and interpretations.

5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the claim holders.

John Charles Grant, CET, FGAC



APPENDIX A

OMNI IV "Tie-Line" Magnetometer

EDA

- 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

Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	± 15% relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from −40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	−40°C to +55°C; 0–100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5 m separation - standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0 m separation - optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

E D A Instruments Inc.
4 Thorncliffe Park Drive
Toronto, Ontario
Canada M4H 1H1
Telex: 06 23222 EDA TOR
Cable: Instruments Toronto
(416) 425 7800

In U.S.A.
E D A Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422 9112

Printed in Canada

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.

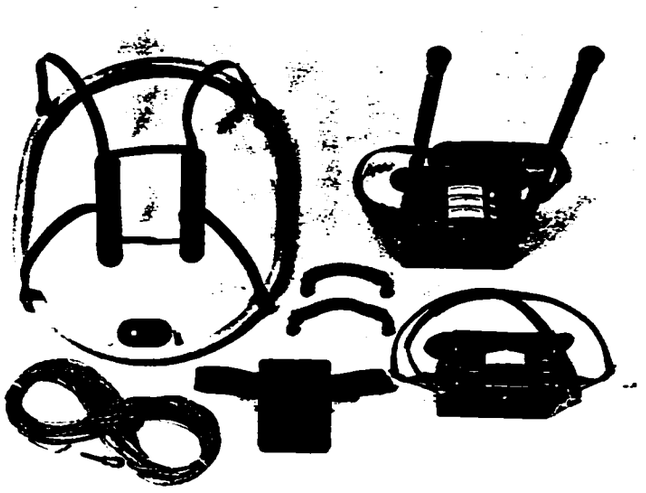
Vertical-loop operation without reference cable.

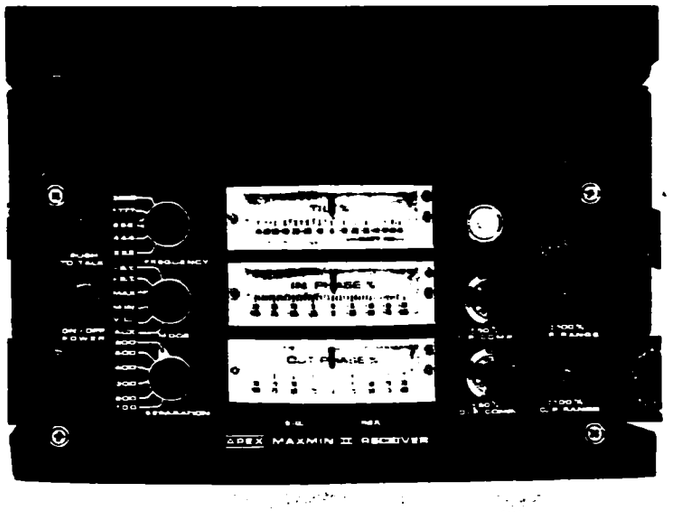
Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.

Reliable data from depths of up to 180 m (600 ft).

Built-in voice communication circuitry with cable.

Tilt meters to control coil orientation.





Frequencies:	222, 444, 888, 1777 and 3555 Hz.
Coil Configurations:	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 & 250 m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF). Coil separations in V.L. mode not restricted to fixed values.
Transmitter Field:	- In-Phase and Quadrature components of the secondary field in MAX and MIN modes. - Tilt-angle of the total field in V.L. mode.
Readout:	- Automatic, direct readout on 90 mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary. - Tilt angle and null in 90 mm edgewise meters in V.L. mode.
Scale Ranges:	In-Phase: ±20%, ±100% by push-button switch. Quadrature: ±20%, ±100% by push-button switch. Tilt: ±75% slope. Null (V.L.): Sensitivity adjustable by separation switch.
Resolution:	In-Phase and Quadrature: 0.25 % to 0.5 % ; Tilt: 1 %.
Accuracy:	±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.
Transmitter Power Output:	- 222 Hz : 220 Atm^2 - 444 Hz : 200 Atm^2 - 888 Hz : 120 Atm^2 - 1777 Hz : 60 Atm^2 - 3555 Hz : 30 Atm^2
Power:	9V trans. radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.
Charging Voltage:	12V 6 Ah 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.
Intercom:	Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.
Warning Lights:	Built-in signal and reference warming 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

---

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

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

GR10 MAN96-07

Ontario — Ministry of Northern Development and Mines

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9660.00303

Personal information collected on this form is obtained under the authority of this collection should be directed to the Provincial Manager, Mining Lands Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

42A15SW0064 2 16646 NEWMARKET

900

2.16646

Instructions:
- Please type or print and submit in duplicate
- Refer to the Mining Act and Regulations for Recorder.
- A separate copy of this form must be completed for each work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): FALCONBRIDGE LIMITED	Client No.: 130679
Address: 571 Moneta Ave. P.O. Box 1140 Timmins, Ont. P4N 7H9	Telephone No.: (705) 267-1188
Mining Division: Porcupine	Township(s): MANN, NEWMARKET
	M or G Plan No.:
Date Work Performed: From: January 24, 1996	To: February 22, 1996

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	Linecutting 39.3 km, Mag 39.3 km, HLEM 32.4 km
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 22,122

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Exsics Exploration Ltd.	P.O. Box 1880 Suite 13 Hollinger Bldg. (705) 267-4151 Timmins, Ont.

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: Apr. 12/96 Recorded Holder or Agent (Signature): C. Petch

Certification of Work Report

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

Name and Address of Person Certifying: 571 Moneta Ave. P.O. Box 1140 Timmins Ont. P4N 7H9 CHRISTINE PETCH

Telephone No.: (705) 267-1188 Date: April 12/96 Certified by (Signature): C. Petch

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Recorded Stamp
22,122		Not Date Stamped Yet	RECEIVED (c) APR 25 1996
	Deemed Approval Date: July 24/96	Date Approved	
	Date Notice of Amendments Sent		

0241 (93/01)

Ministry of Northern Development and Mines

Ontario

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

GRID FINN 16 07

Transaction No./N° de transaction
W9660.00303

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	300	
	Field Supervision Supervision sur le terrain	600	900
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Linecutting	11,144	Invoice# 416
	HLEM	5547	
	Mag	4205	20896
Supplies Used Fournitures utilisées	Type Flagging	10	
	Picket tags	166	
			176
Equipment Rental Location de matériel	Type Truck	100	
	Snowmobile	50	
			150
	Total Direct Costs Total des coûts directs		22122

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles		22122

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as C. PETCH (Recorded Holder, Agent, Position in Company) I am authorized to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé à faire cette attestation.

Signature	Date
C. Petch	April 12/96

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

...for ...ying ...eserve	Claim Number (see Note 2)	... of Claim Units	Assessment Work Done on this Claim	Applied to this Claim	...Assigned from this Claim	Work to be Claimed at a Future Date
	P1200922	16	33% 7300	7300		
	P1200945	6	19% 4203	4203		
	P1200923	16	36% 7964	7964		
	P1200917	8	12% 2655	2655		
	4		22,122	22,122		
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

241 (03/91)

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☒ Credits are to be cut back as priorized on the attached appendix. P1200922

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

EXSICS EXPLORATION LIMITED
CONTRACTING & CONSULTING GEOPHYSICS

Tel. (705) 267-4151
Fax (705) 264-5790

P.O. Box 1880
Timmins, Ontario P4N 7X1

INVOICE #:416
PROJECT #:e-145

ON ACCOUNT WITH: Falconbridge Limited
P.O. Box 1140
Timmins, Ontario

G.S.T. REGISTRATION # 113433791

RE: Linecutting and geophysical surveys Mann 96-07

AT A RATE OF:

39.3 kilometers of lines @ $265.00/km	$10,415.00
39.3 kilometers of magnetics @ $100/00/km..	$ 3,930.00
32.4 kilometers of HLEM @ $160.00/km.....	$ 5,184.00
sub-total.....	$19,529.00
7% GST.....	$ 1,367.00
total.....	$20,896.00
4 boxes of metal tags, GST,PST, incl.....	$ 166.00

TOTAL OF THIS INVOICE: $21,062.00

DATE: February 21, 1996

SIGNED: Karen Talon

Paid Voyer
Feb 23-96
8249

PAYMENT DUE UPON RECEIPT OF INVOICE.
TERMS: NET 30, 2% INTEREST PER MONTH ON OVERDUE ACCOUNTS.

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

July 19, 1996

Our File: 2.16646
Transaction #: W9660.00303

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Ave.
1st Floor
Timmins, Ontario
P4N 2S7

Dear Mr. White:

SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND, CLAIM(S) 1200922 (ET AL.) IN MANN TOWNSHIP(AREA)

Assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission. The credit has been approved under Section 14, Geophysics(MAG,EM) of the Assessment Work Regulation.

The approval date is July 16, 1996. Please indicate this approval on the claim record.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705) 670-5856.

Yours sincerely,
ORIGINAL SIGNED BY:

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

BIG/jf

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Sudbury, Ontario

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
W.P.R.	WATER POWER RESERVE			
W.O. 87 / 87				
(RI)	MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 39 OF THE MINING ACT. * OCTOBER 15, 2007 * per file 50-41250.			
	SURFACE AND MINING RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 39 OF THE MINING ACT R.S.O. 1990 EFFECTIVE 06-SEP-06 AT 7AM E.S.T. ORDER NO. C-P 4/90 IN DATED 30-AUG-02.			

NOTE- P112S837 PLOTTED IN ERROR.
S/B-P114787.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LANNA TOWNSHIP

DUFF TOWNSHIP

NEWMARKET TOWNSHIP

LITTLE TOWNSHIP

Pickerel Lake

Pickerel River

House River

Devonshire Road

Three Ramos Road

Trout Lake

W.P.R.

1201909 (8 Units) P.1190056
1200928
1200927
1200925 (16 UNITS)
1200902
1200901
1204690 (8 Units)
1200926 (6 UNITS)
1186762
1180028 2 UNITS
1186760 (6 UNITS)
1180029 (4 UNITS)
1200908 (12 UNITS)
F-2 1206710
1198991
1198992 (12 UNITS)
1200683
1200684
2 UNITS
(8 UNITS)
1200912 (3 UNITS)
1200913
1200911
1200903 (12 UNITS)
1200906 (8 UNITS)
1200905
1200904
1200910 (16 UNITS)
1200914 (4 UNITS)
1200915 (16 UNITS)
1200916 (16 UNITS)
1200908 (12 UNITS)
1190952 16 UNITS
1201907 12 UNITS
1200947
1200918 (2 UNITS)
1200907 (8 UNITS)
1200948 (9 UNITS)
1200919 (4 UNITS)
1200920 (16 UNITS)
1200922 (16 UNITS)
1200938 (8 UNITS)
1200921 (4 UNITS)
1201944 (4 UNITS)
1204445 (2 UNITS)
1201945 (2 UNITS)
1200924 (16 UNITS)
1200923 (16 UNITS)
1201901 (16 UNITS)
1201903 8 UNITS
1201902 4 UNITS
1201373 (4 UNITS)
1200984 (4 UNITS)

I II III IV V VI

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

LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIP, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINE:
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	SYMBOL
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	
LAND USE PERMIT	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY MINING LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 62, SUBS.

L.U.P.

SCALE 1:20 000

(ST) SNOWMOBILE TRAIL (LAND USE PERMIT) NOTICE RECEIVED 92-DEC-09

not updated

Received Sept 22/86

TOWNSHIP

MANN

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources | Ministry of Northern Development and Mines

Date: SEPTEMBER, 1986
Number: G-3537

2.16646
MAG
EM

2.16646

RECEIVED
JUL 3 1998
MINING LANDS BRANCH

42A15SW0004 2.16646 NEWMARKET

200

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
(R)	W.43/79 NR. 16/8/79	S.R.O.		33749

[illegible] under Sec. 24, The Mining Act (R.S.O. 1960, Chapter 60), W-01/81/ONT (Prov. under Plantou Right of Way and Letter [illegible] 400.66 metres on East Si. on [illegible] line of right of way)

CANCELLED - MARCH 3/95

ST. JOHN TOWNSHIP

MANN TOWNSHIP

AURORA TOWNSHIP

Mc CART TOWNSHIP

NEWMARKET TWP.

Alpine L.
Holland
Potter
Devonshire L.
Devonshire
Tunis
Devonshire

I.O. 9109
G.L.1550
G.L.7844
RY331
RW303
P.1123
WICKLOW
TRANS CANADA PIPE LINES LTD. 9"ø
HUNTSVILLE PEMBROKE
PEMBROKE TORONTO
PLAN 2048
P.2674-15
P.2674-9
P.2674-1
P.2674
P.2674-16

(12 UNITS)
1201956
1201955
1201954
1200945
1200946
6 UNITS
12 UNITS
(16 UNITS)
(8 UNITS)
1200917
1200939
8 UNITS
16 UNITS
1200955
14 UNITS
1200957
4 UNITS
1200953
4 UNITS
1200976
1200949
(8 UNITS)
1200950
(4 UNITS)
1200951
16 UNITS
1200952
16 UNITS
1200954
8 UNITS
1200956
4 UNITS
1200998
16 UNITS
1200960
16 UNITS
2 UNITS

I II III IV V VI
1 2 3 4 5 6 7 8 9 10 11 12

2.16646
MAG
EM

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO SPECIFIC MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

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	SYMBOL
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	OC
RESERVATION	R
CANCELLED	⊕
SAND & GRAVEL	S
LUP (LAND USE PERMIT)	LUP

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 1.

500 0 1000 Metres
10 0 10 20 30 40 50 60 70 Chains
500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000

R_2 - AGRICULTURAL PERMIT

ST SNOWMOBILE TRAIL
NOTICE RECEIVED 92-DEC-09

TOWNSHIP

NEWMARKET

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources | Ministry of Northern Development and Mines

Date: SEPTEMBER 1986
Number: G-3548

LOT 2

LOT 1

LOT 12

MANN TOWNSHIP

NEWMARKET TOWNSHIP

CON III

CON II

1800 NORTH
1600 NORTH
1400 NORTH
1200 NORTH
1000 NORTH
800 NORTH
600 NORTH
400 NORTH
200 NORTH
0

900 WEST
800 WEST
700 WEST
600 WEST
500 WEST
400 WEST
300 WEST
200 WEST
100 WEST
0

100 EAST
200 EAST
300 EAST
400 EAST
500 EAST
600 EAST
700 EAST
800 EAST

1800 N

120092
16 UNITS

200845
6 UNITS

42A15SW0064 2.16646 NEWMARKET

220

LEGEND
Instrument: BRGM OMNI-1V
Parameters Measured: Earth's total magnetic field
Accuracy: +/- 0.1 nano-teslas
Diurnals: Corrected by base station recorder
Contour Interval: 0,20,40,60,80,100,.....
Reference Field: 57,960 gammas
Datum Subtracted: 57,500 gammas

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

0 50 100 150 200
SCALE (m)

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

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: MANN BELT PN# 8269
TITLE: MANN TWP MAN96-07

MAGNETOMETER SURVEY

Date:Mar. 1996	Scale: 1:5000	NTS:
Drawn:P.Gauthier	Interp: J.C.Grant	Job No.:E-145

2.16646

LOT 2

LOT 1

LOT 12

MANN TOWNSHIP

NEWMARKET TOWNSHIP

CON III

CON II

1800 NORTH
1600 NORTH
1400 NORTH
1200 NORTH
1000 NORTH
800 NORTH
600 NORTH
400 NORTH
200 NORTH
0

900 WEST
800 WEST
700 WEST
600 WEST
500 WEST
400 WEST
300 WEST
200 WEST
100 WEST
0

100 EAST
200 EAST
300 EAST
400 EAST
500 EAST
600 EAST
700 EAST
800 EAST

1800 N
1600 NORTH
1400 NORTH
1200 NORTH
1000 NORTH
800 NORTH
600 NORTH
400 NORTH
200 NORTH

1200922
16 Units

1200923
16 Units

1200945
6 Units

1200917
8 Units

DEVONSHIRE

CREEK

IONHID
-35m

5MHID 5
-35m

3MHID 3
-25m

5MHID
-15m

4MHID 15
-25m

7MHID
-30m

MAX-MIN 11

Conductor Axis

In-Phase
(Background 15)

Out-of-phase
(Background 5)

+20 +15 +25 +20 0 -15 -30 -15 -10 -15 -5 0 +5 +10

LEGEND

Instrument: Apex Parametrics Max-Min 11
Mode: Maximum Coupled, Horizontal Loop Survey
Parameters Measured: Inphase (%)
Out of phase (%)
Frequency: 444 Hz
Coil Seperation: 150m
Operator: R. & R. Mathieu
Profile Scale: 1cm=+/-10%

42A15SW0064 2 16646 NEWMARKET

230

2.16646

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

0 50 100 150 200
SCALE (m)

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

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: MANN BELT PN# 8269
TITLE: MANN TWP MAN96-07
MAX-MIN II 444 Hz

Date:Mar. 1996	Scale: 1:5000	NTS:
Drawn:P.Gauthier	Interp: J.C.Grant	Job No.:E-145

LOT 2

LOT 1

LOT 12

MANN TOWNSHIP

NEWMARKET TOWNSHIP

1800 NORTH

1600 NORTH

1400 NORTH

1200 NORTH

1000 NORTH

800 NORTH

600 NORTH

400 NORTH

200 NORTH

0

900 WEST

800 WEST

700 WEST

600 WEST

500 WEST

400 WEST

300 WEST

200 WEST

100 WEST

0

100 EAST

200 EAST

300 EAST

400 EAST

500 EAST

600 EAST

700 EAST

800 EAST

CON III

CON II

1800 N

1600 NORTH

1400 NORTH

1200 NORTH

1000 NORTH

800 NORTH

600 NORTH

400 NORTH

200 NORTH

0

1200922
16 Units

1200945
6 Units

1200923
16 Units

1200917
8 Units

DEVONSHIRE CREEK

MAX-MIN 11

Conductor Axis

Out-of-phase (Background: -10)

In-phase (Background: 25)

+20 +15 +25 +20 0 -15 -30 -15 -10 -15 -5 +5 +10 +15 0

LEGEND

Instrument: Apex Parametrics Max-Min 11
Mode: Maximum Coupled, Horizontal Loop Survey
Parameters Measured: Inphase (%)
Out of phase (%)
Frequency: 1777 Hz
Coil Seperation: 150m
Operator: R. & R. Mathieu
Profile Scale: 1cm=+/-20%

42A15SW0084 2 16646 NEWMARKET

240

2.16646

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

0 50 100 150 200
SCALE (m)

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

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: MANN BELT PN# 8269
TITLE: MANN TWP MAN96-07

MAX-MIN II 1777 Hz

Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-145