010

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
MANN BELT
GRID #HAN96-04
HANNA TOWNSHIP, PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO

2.16640

Qual # 2.3943

PREPARED BY: J.C.Grant, CET, FGAC
February, 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 Hanna Township, Grid #Han96-04, 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 January 15th, 1996 and was completed on January 30th, 1996. The geophysics was started on the 8th of February and was completed on the 11th of February, 1996. In all, a total of 12.8 kilometers of grid lines were established on the claim group.

PROPERTY LOCATION AND ACCESS

Grid, Han96-04, is located in the central-south section of Hanna Township, just to the southwest of Warrick Lake and to the east of the Fredrick House River. The entire grid is located approximately 28 kilometers northwest of the Town of Iroquois Falls. Figures 1 and 2.

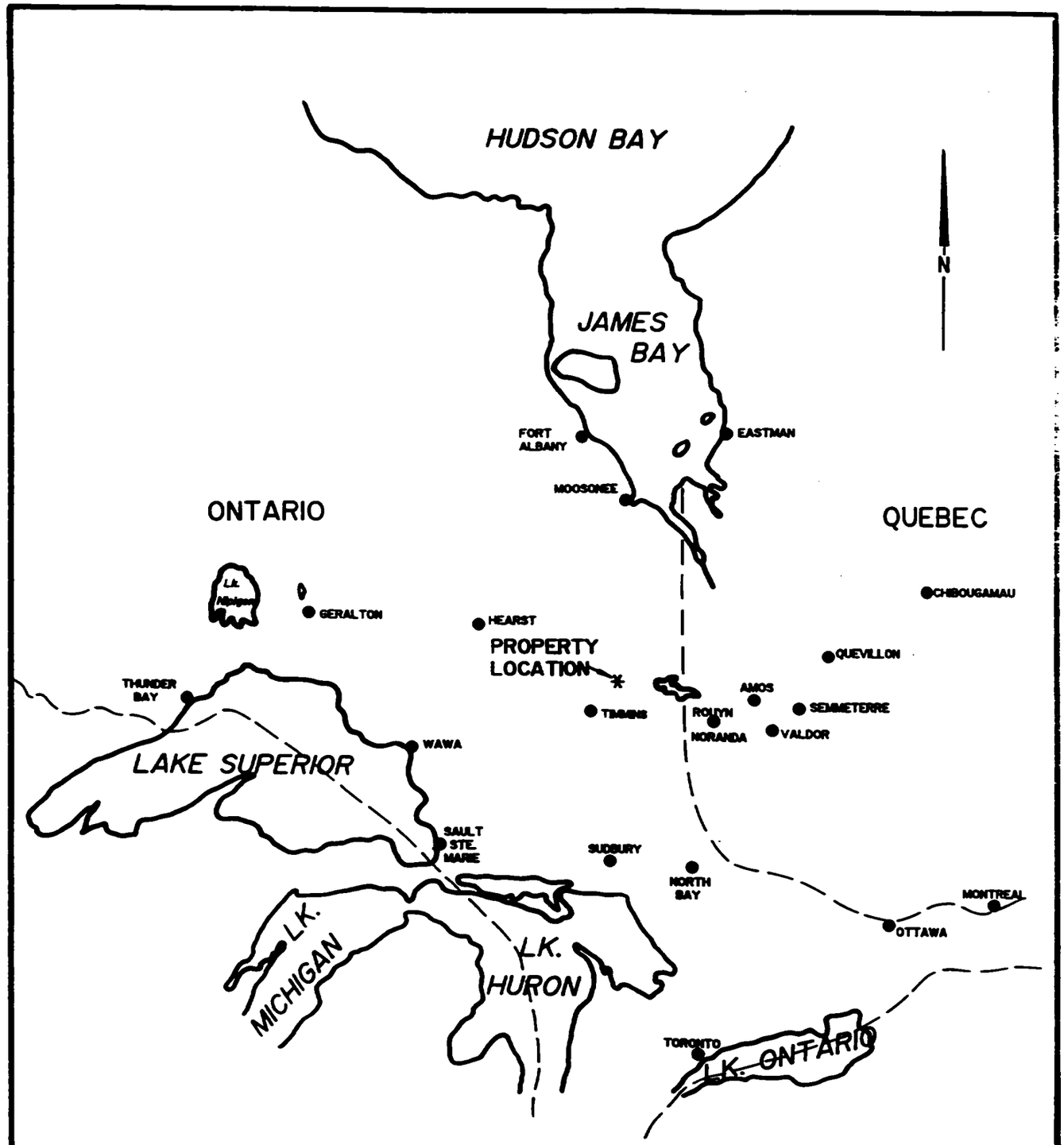
Access to the grid during the survey period was ideal. Falconbridge Limited has plowed open a road which follows the concession line between Concession V and V of Mann Township. This road is opened to the Bridge across the Fredrick House River. A second plowed road was then opened north off of this concession road and provides drivable access to the south section of the grid.Travelling time from Timmins to the grid is approximately 1.8 hours.

CLAIM GROUP

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

P-1207558	16 units
P-1207559	16 units

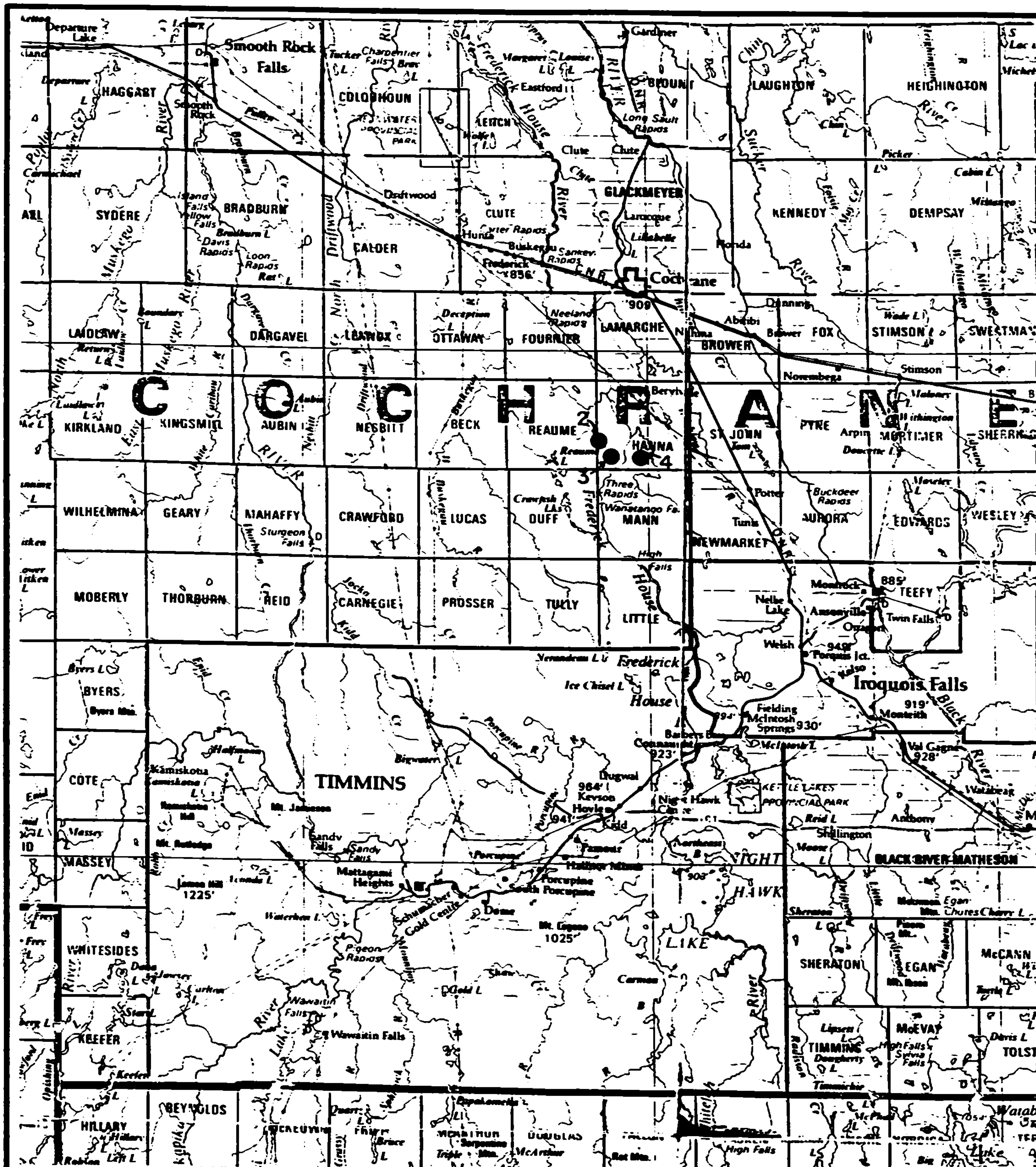
Refer to figure 3, copied from the MNDM Plan map #G-3507, of Hanna Township, scale 1:20,000.



EXSICS EXPLORATION LTD.
P.O. Box 1980, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	MANN BELT PN 8269
TITLE:	HANNA TWP LOCATION MAP Fig. 1

Date: Feb. 1996	Scale: 1"=125miles	MNDM Plan#:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No E-146

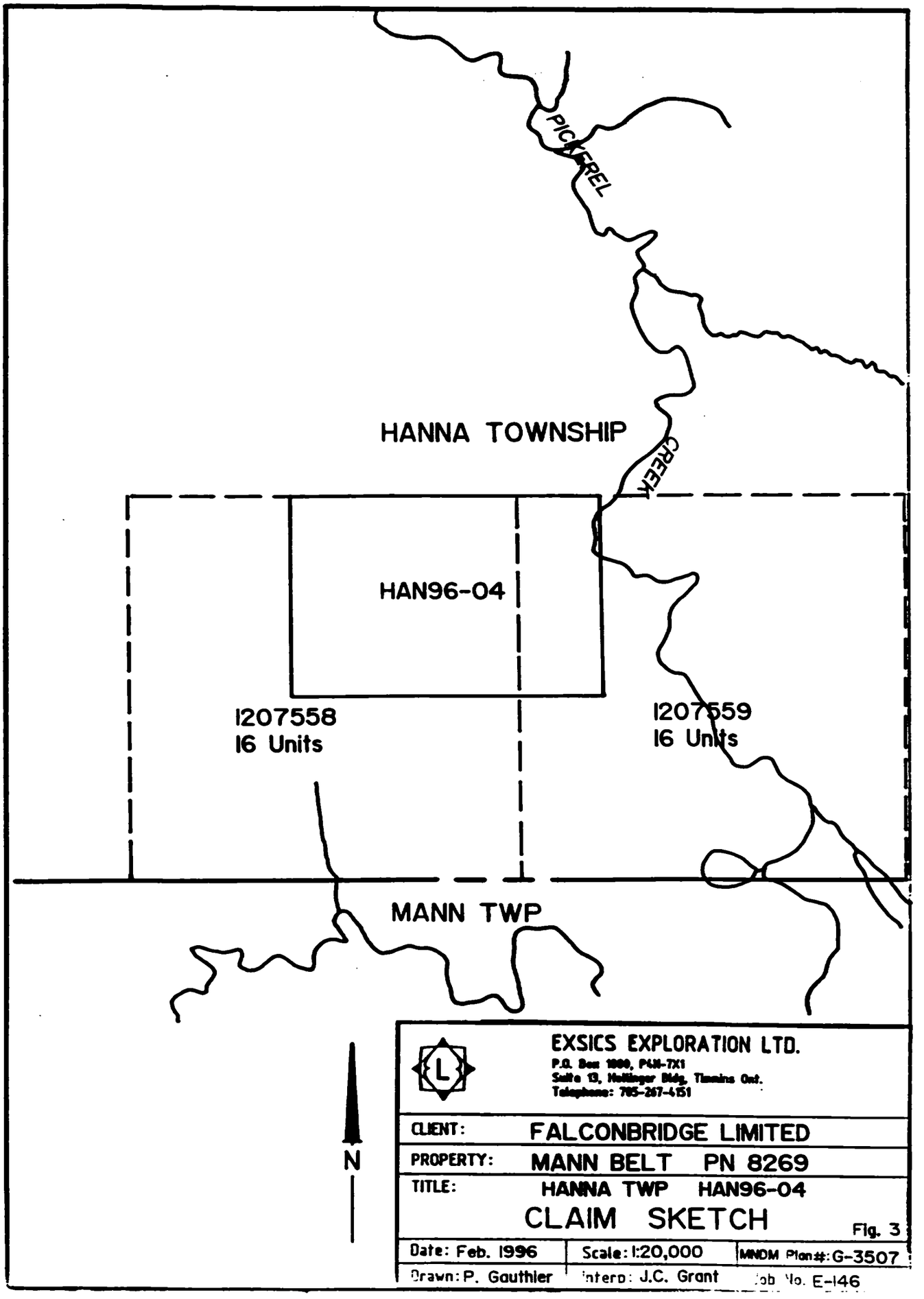


EXSICS EXPLORATION LTD.
P.O. Box 1980, P4N-7X1
Suite 13, Hollinger Bldg. Timmins Ont.
Telephone: 705-267-4151

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

Fig. 2

Date: Feb. 1996	Scale: 1:600,000	MNDM Plan#: 22-6
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-146


PICKEREL
CREEK
HANNA TOWNSHIP
HAN96-04
1207558
16 Units
1207559
16 Units
MANN TWP
N
EXSICS EXPLORATION LTD.
P.O. Box 1000, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151
CLIENT: FALCONBRIDGE LIMITED
PROPERTY: MANN BELT PN 8269
TITLE: HANNA TWP HAN96-04
CLAIM SKETCH
Fig. 3
Date: Feb. 1996
Scale: 1:20,000
MNDM Plan#: G-3507
Drawn: P. Gauthier
Interp: J.C. Grant
Job No. E-146

PERSONNEL

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

Bruce Pigeon.....South Porcupine, Ontario
John DerWeduwen.....South porcupine, 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 had been located earlier by Falconbridge personnel. This point was called line 0+00/baseline. The basline was cut at 270 degrees from this line to 400MW and at 090 degrees from line 0+00 to 800ME. The lines were chained from the baseline to tieline 800MN.

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	200 meters
Theoretical search depth	100-120 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 surveys were successful in locating and outlining one moderately strong conductive horizon on the grid. This feature strikes east-west across the entire grid at approximately 250MN and it appears to continue off of the grid in both directions. The zone relates to a legitimate bedrock conductor situated at a depth to source of 65 to 85 meters on the western extension and this portion of the zone has a conductivity value ranging from 4 to 7 mhos. The eastern portion of the zone is situated at a depth of 80 to 90 meters and has a conductivity range of 4 to 6.5 mhos. The zone appears to dip near vertical.

A second zone appears to have been noted on line 800MW at 525MN and may continue off of the grid to the east. More coverage of this zone would be required to better define the source of the target.

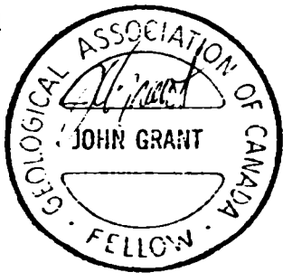
The main conductive zone has a direct magnetic high association suggesting the target is situated within the ultramafic intrusive. The second shorter feature is also contained within a good magnetic high unit.

CONCLUSIONS AND RECOMMENDATIONS

The surveys were successful in locating and outlining one good conductive zone on the grid and the start of a second parallel zone. Both of the zones have a good magnetic signature suggesting they are within the intrusive unit. This intrusive has been well defined by the magnetic survey.

A follow-up program should consist of diamond drilling of the better conductive zone and should the hole return encouraging results then the coverage of the shorter zone should be completed.

Respectfully submitted



J.C.Grant, CET, FGAC.
February, 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.

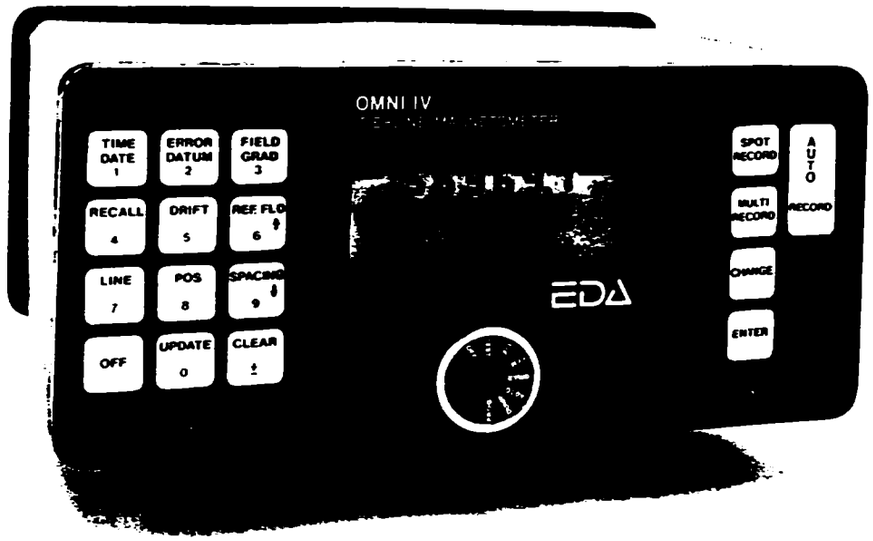
5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the claim holders.

John Charles Grant, CET, FGAC

APPENDIX A

OMNI IV
"In-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

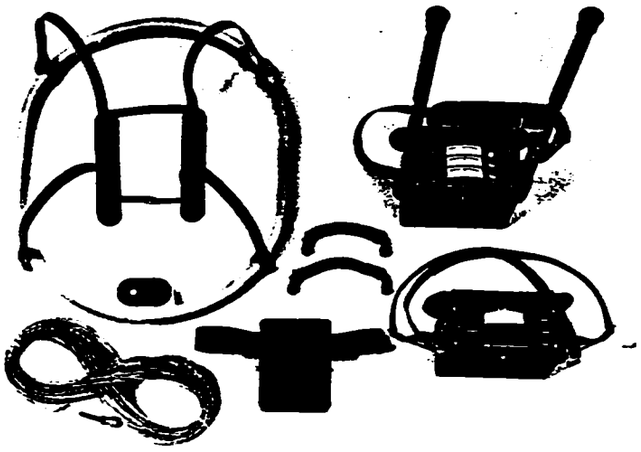
In U.S.A.
E D A Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422 9112

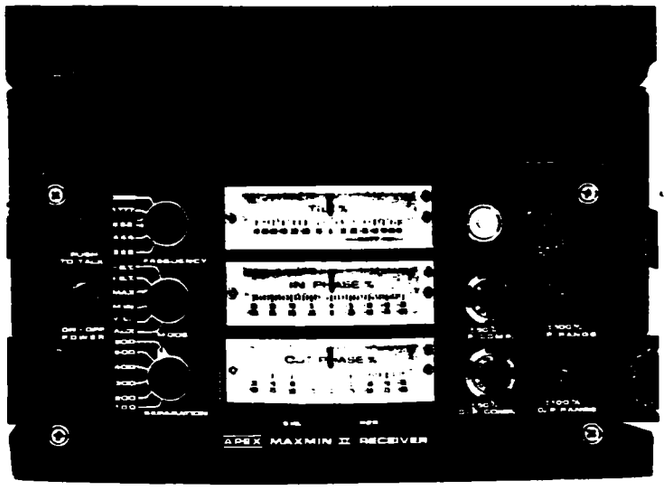
Printed in Canada

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.





	222, 444, 888, 1777 and 3555 Hz.
	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.
	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.
	- In-Phase and Quadrature components of the secondary field in MAX and MIN modes. - Tilt-angle of the total field in V.L. mode.
	- 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.
	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.
	In-Phase and Quadrature: 0.25 % to 0.5 % ; Tilt: 1%.
	±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.
	- 222 Hz : 220 Atm² - 444 Hz : 200 Atm² - 888 Hz : 120 Atm² - 1777 Hz : 60 Atm² - 3555 Hz : 30 Atm²
	9V trans. radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.
Transmitter Battery:	12V 6 Ah Gel-type rechargeable battery. (Charger supplied).
	Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.
	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).
	6kg (13 lbs.)
	13kg (29 lbs.)
	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

GRID HANNA-04

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Transaction Number: W9660.00297

42A15NW0021 2 16640 HANNA

900

Instructions:
- Please type or print and submit in di
- Refer to the Mining Act and Regulati 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.

2.16640

Recorded Holder(s)		Client No.
FALCONBRIDGE LIMITED		130679
Address		Telephone No.
571 Moneta Ave. P.O. Box 1140 Timmins, Ont P4N 7H9		(705) 267-1188
Mining Division	Township/Area	M or G Plan No.
Porcupine	HANNA	
Dates Work Performed	From: JANUARY 15, 1996	To: FEBRUARY 11, 1996

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	Linecutting 12.8 km, Mag 12.8 km, HLEM 10.4 km
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 7546

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 90 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	Recorded Holder or Agent (Signature)
	April 12/96	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.	Date	Certified By (Signature)
(705) 267-1188	April 12/96	C. Petch

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
7546	Deemed Approval Date: June 24/96	Date Approved	RECEIVED (c) APR 25 1996 TIA PORCUPINE MINING DIVISION
	Date Notice for Amendments Sent		

0241 (95/01)

GRID HAN16-04

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

Transaction No./N° de transaction: W9660.00297

Mining Act/Loi sur les mines

2.16640

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	300	600
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type: Linecutting	3582	Invoice # 403, 406
	HLEM	3150	
	Mag		6732
Supplies Used Fournitures utilisées	Type: Flagging	10	
	Picket tags	54	
			64
Equipment Rental Location de matériel	Type: Truck	100	
	Snow mobile	50	
			150
	Total Direct Costs Total des coûts directs		7546

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)		7546

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. PETTH (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. Petth	April 12/96

0212 (04/91)

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

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	P 1207558	16
	P 1207559	16
	2	

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
73% 5509	5509
27% 2037	2037
7546	7546

Total Value Work Done | Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date

Total Assigned From | Total Reserve

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. P 1207558

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

0241 (03/91)

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

Our File: 2.16640
Transaction #: W9660.00297

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

Dear Mr. White:

SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND, CLAIMS P.1207558 & 1207559 IN HANNA TOWNSHIP

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 18, 1996.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours sincerely,
ORIGINAL SIGNED BY:

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

LBJ/jf

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Sudbury, Ontario

EXSICS EXPLORATION LIMITED
CONTRACTING & CONSULTING GEOPHYSICS

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

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

2.16646

INVOICE #:403
PROJECT #:E-146

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

Attention: Paul Negerl

G.S.T. REGISTRATION # 113433791

RE: Linecutting on grids in Hanna, 96-02,96-03,96-04

AT A RATE OF:

96-02, 12.5 kilometers @ $265.00/km.....	$3312.50
96-03, 20.5 kilometers @ $265.00/km.....	$5432.50
96-04, 12.8 kilometers @ $265.00/km.....	$3392.00
sub-total.....	$12137.00
7% GST.....	$ 849.59
sub-total.....	$12986.59
5 boxes of tags, PST, GST Incl.....	$ 207.00
TOTAL OF THIS INVOICE:	$13193.59

DATE: February 7, 1996

SIGNED: _____

Feb 9 96 $219

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

EXSICS EXPLORATION LIMITED
CONTRACTING & CONSULTING GEOPHYSICS

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

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

2.16640

INVOICE #:406
PROJECT #:E-146

ON ACCOUNT WITH: Falconbridge Limited
P.O. Box 1140
Timmins, Ontario
P4N 7H9

ATTENTION: Paul Nagerl

G.S.T. REGISTRATION # 113433791

RE: Max Min and Magnetic Survey on Hanna Han 96-04

AT A RATE OF:

10.4 Km of Max Min @ $160.00/Km	$1,664.00
12.8 Km of Magnetic @ $100.00/Km	$1,280.00
	$2,944.00
7% GST	$ 206.08
TOTAL OF THIS INVOICE:	$3,150.08

DATE: February 12, 1996

SIGNED Karen Talon

RECEIVED FEB 15 1996

Paul Nagerl 8219

PAYMENT DUE UPON RECEIPT OF INVOICE.
TERMS: NET 30, 2% INTEREST PER MONTH ON OVERDUE ACCOUNTS. A615 9/

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

2.16640

INDEX TO LAND DISPOSITION

PLAN
G-3507

TOWNSHIP
HANNA

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE

MINING DIVISION
PORCUPINE

LAND TITLES/REGISTRY DIVISION
COCHRANE

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

MAG EM

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

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.

SYMBOLS

Boundary
- Township, Meridian, Baseline
- Road allowance; surveyed
- shoreline
- Lot/Concession; surveyed
- unsurveyed
- Parcel; surveyed
- unsurveyed
- Right-of-way; road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway; single track
- double track
- abandoned
- Road; highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M+S - Mining and Surface Rights

	Description	Order No.	Date	Disposition	File
R_3	S.R.O.	W-01/91/ONT			

(TRANS CANADA PIPELINE RIGHT OF WAY AND BUFFER ZONE PARTICULARLY 40.25 METERS OR 132 FT. ON EITHER SIDE OF CENTER LINE OF RIGHT OF WAY)

NOTES

THE SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS PARTIALLY ANNULLED OCTOBER 30, 1964.

F_1 - ~~SUBJECT TO FORESTRY ACTIVITY IN 1994/95~~

R_1 - WASTE DISPOSAL SITE ATTENUATION ZONE - SITE CLOSED 1988 SEE SECTION 46 ENVIRONMENTAL PROTECTION ACT R.S.O. 1990

R_2 - PENDING APPLICATION UNDER THE PUBLIC LANDS ACT NOTICE RECEIVED 94-MAR-22

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

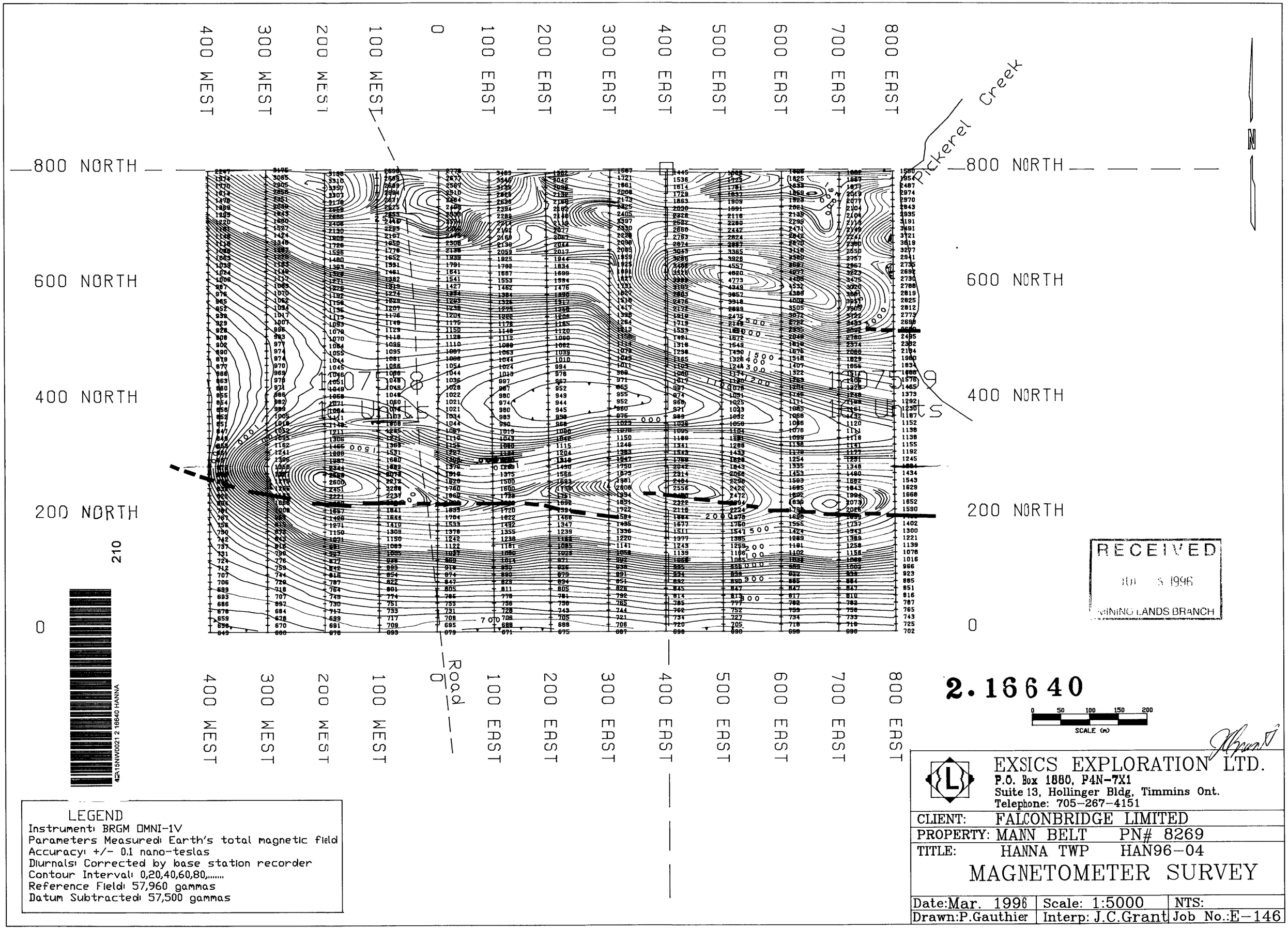
- Licence of Occupation
- Order-in-Council (OC)
- Cancelled
- Reservation (R)
- Sand & Gravel (S)

2.16640
MAG, EM

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

42A15NW0021 2 16640 HANNA



RECEIVED
JUL 5 1996
MINING LANDS BRANCH

2.16640

0 50 100 150 200
SCALE (m)

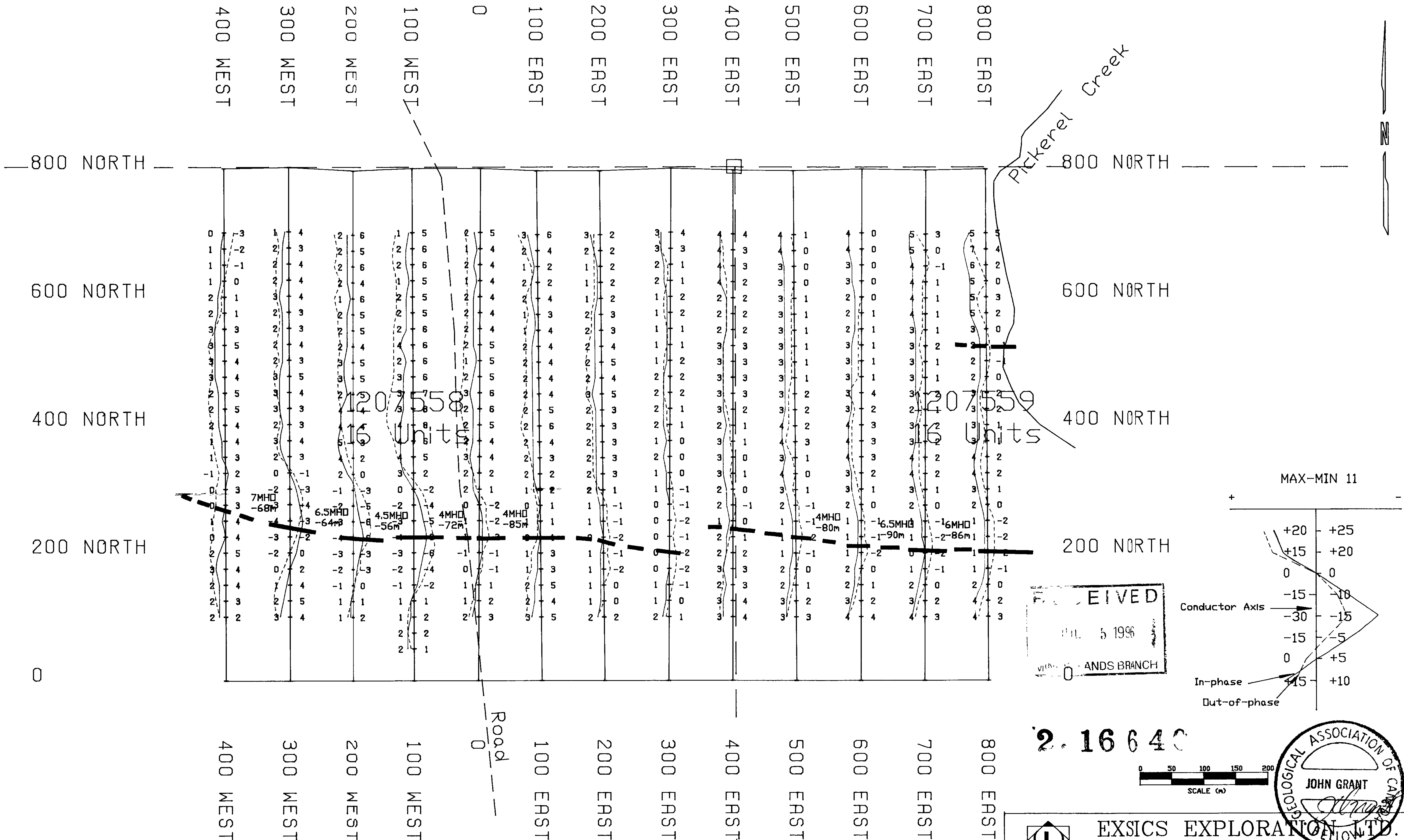
LEGEND
Instrument: BRGM OMNI-1V
Parameters Measured: Earth's total magnetic field
Accuracy: +/- 0.1 nano-teslas
Diurnals: Corrected by base station recorder
Contour Interval: 0,20,40,60,80,.....
Reference Field: 57,960 gammas
Datum Subtracted: 57,500 gammas

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:	HANNA TWP HAN96-04

MAGNETOMETER SURVEY

Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-146



2.16640

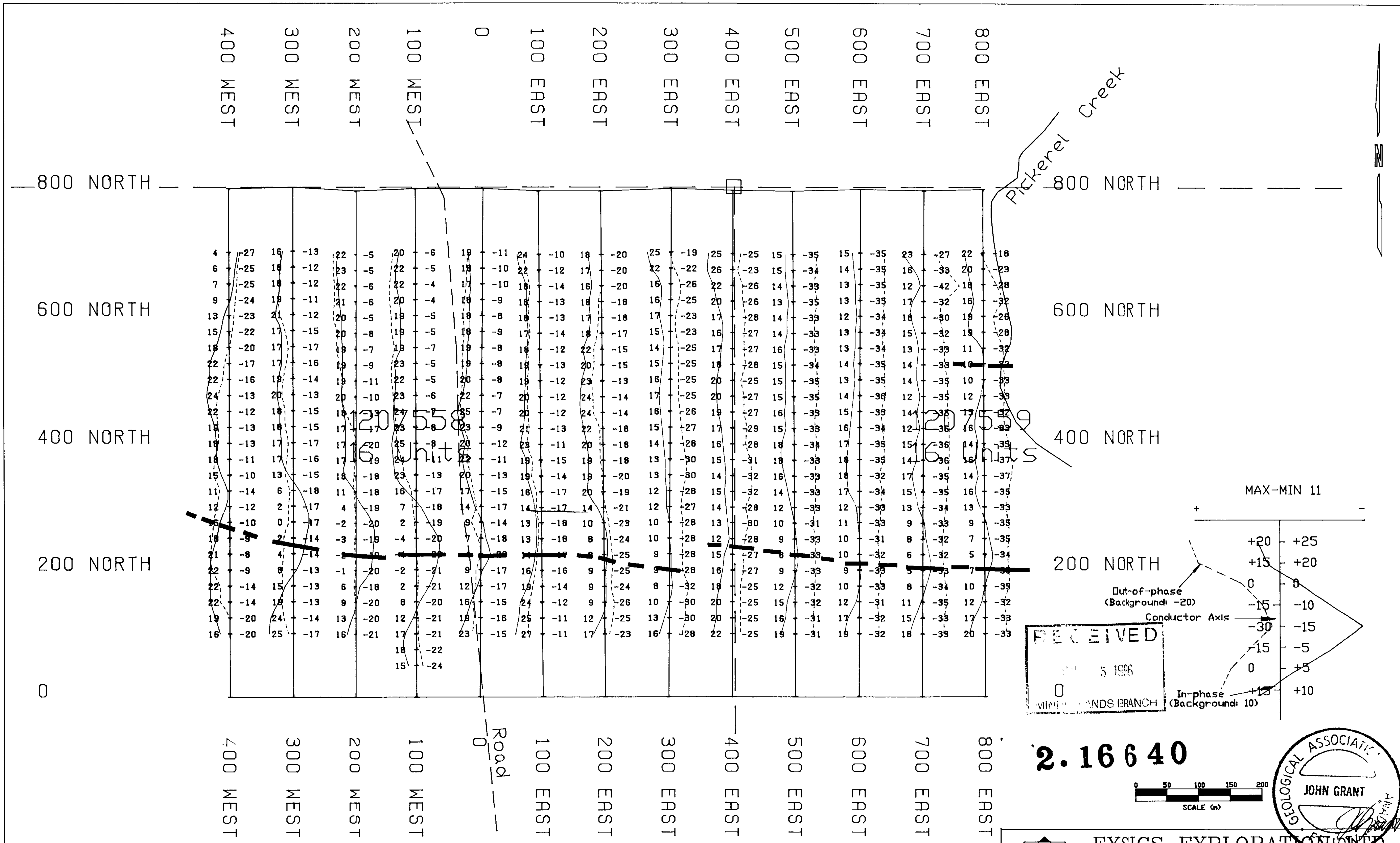
LEGEND

Instrument: Apex Parametrics Max-Min 11
Mode: Maximum Coupled, Horizontal Loop Survey
Parameters Measured: Inphase (%)
Out of phase (%)
Frequency: 444 Hz
Coil Seperation: 200m
Operator: J. DerWeduwen, B. Pigeon
Profile Scale: 1cm=+/-10%

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:	HANNA TWP HAN96-04
	MAX-MIN II 444 Hz

Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-146



2.16640

LEGEND

Instrument: Apex Parametrics Max-Min 11
Mode: Maximum Coupled, Horizontal Loop Survey
Parameters Measured: Inphase (%)
Out of phase (%)
Frequency: 1777 Hz
Coil Seperation: 200m
Operator: J. DerWeduwen, B.Pigeon
Profile Scale: 1cm=+/-20%

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:	HANNA TWP HAN96-04
	MAX-MIN II 1777 Hz

Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-146