010

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
MANN BELT
GRID #DUF96-03
DUFF TOWNSHIP, PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO

2.16648

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 Duff Township, Grid #Duf96-03, 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 20th,1996 and was completed on January 29, 1996. The geophysics was started on the 05th of February and was completed on the 10th of February,1996. In all, a total of 21.8 kilometers of grid lines were established on the claim group.

PROPERTY LOCATION AND ACCESS

Grid, Duf96-03, is located in the north-central section of Duff Township such that the north boundary of the claim group represents the township line between Duff and Reaume Townships. The entire grid is located approximately 25 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 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. The plowed road continues up to the east side of the grid. Travelling time from Timmins to the property is approximately 2 hours.

CLAIM GROUP

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

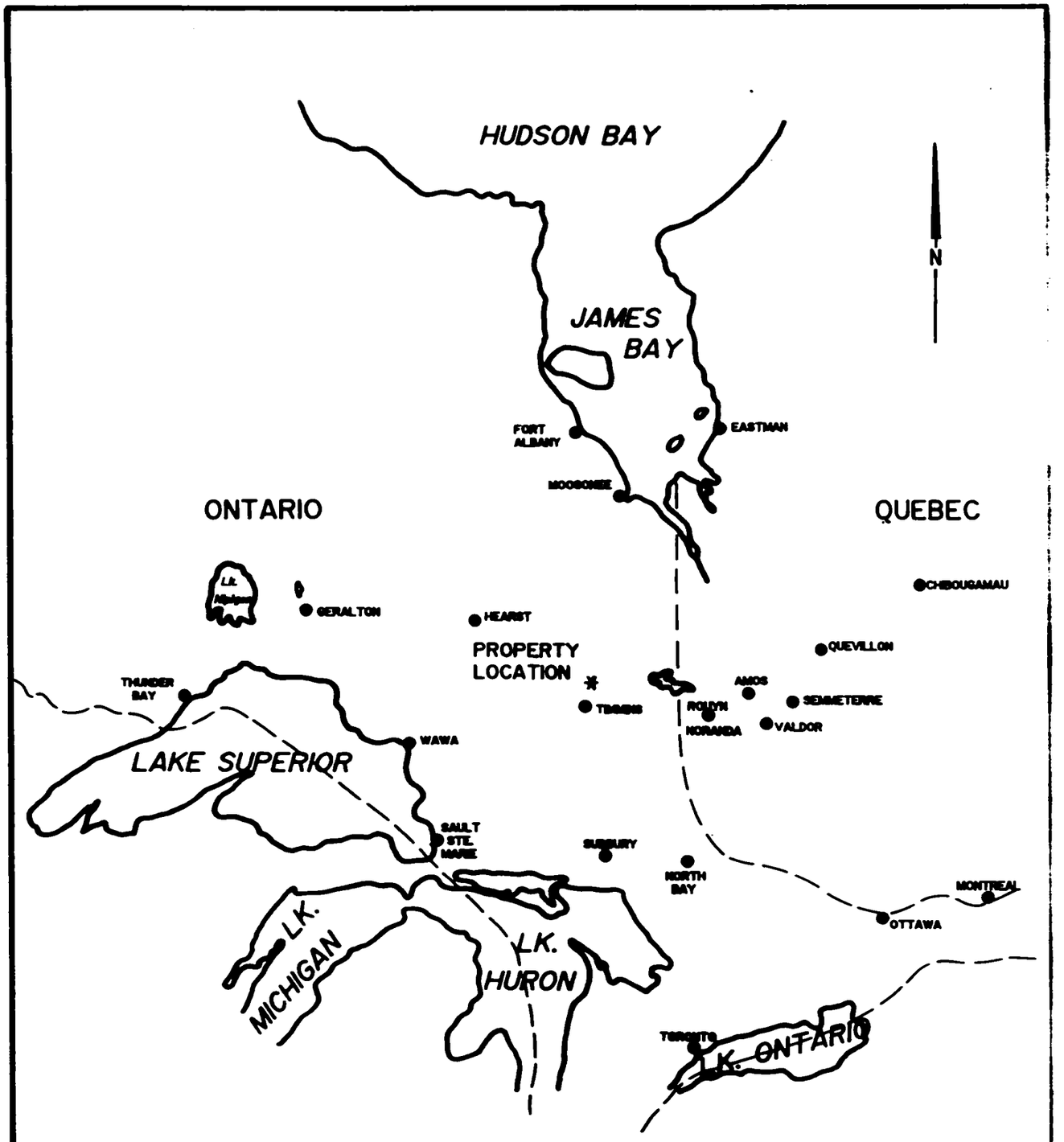
P-1201957	6 units
P-1200934	15 units

Refer to figure 3, copied from the MNDM Plan map #G-3234, of Duff Township, scale 1:20,000.

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

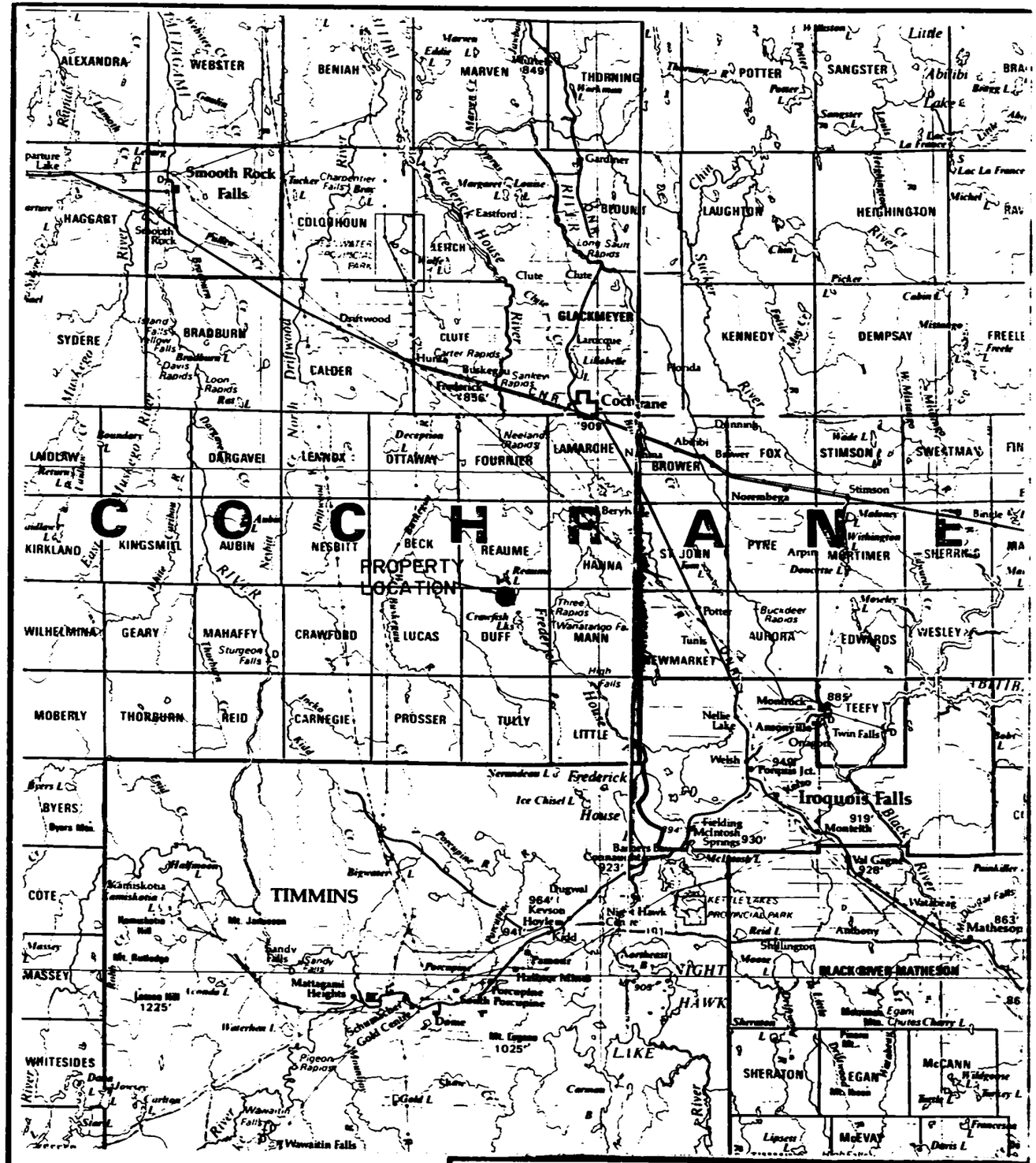


EXSICS EXPLORATION LTD.
P.O. Box 1000, P4N-7X1
Suite 11, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	MANN BELT PN 8269
TITLE:	DUFF TWP DUF96-03 LOCATION MAP

Fig. 1

Date: Feb. 1996	Scale: 1"=125miles	MNDM Plan#:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-147



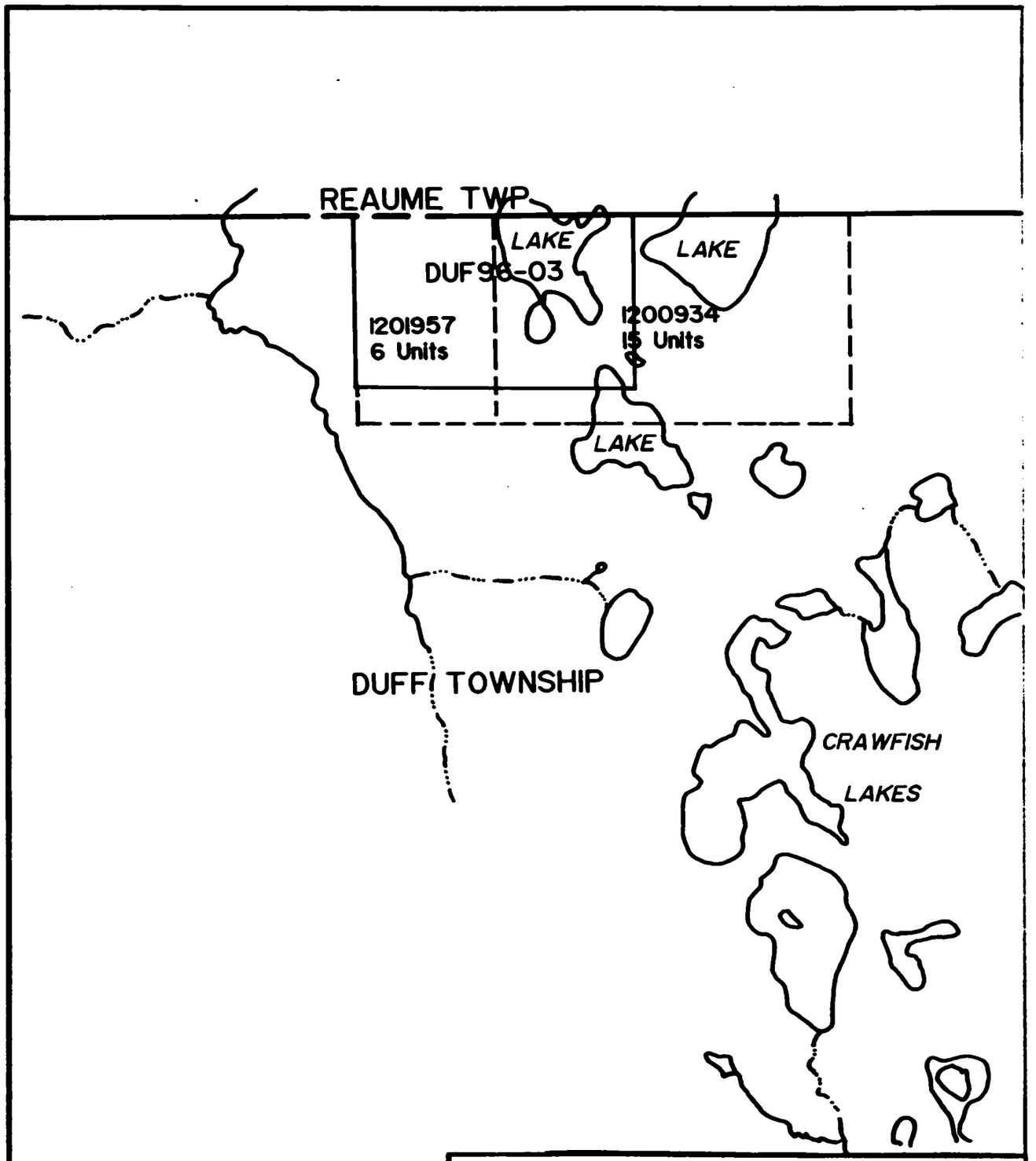
EXSICS EXPLORATION LTD.
P.O. Box 1000, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	MANN BELT PN 8269
TITLE:	DUFF TWP DUF96-03

PROPERTY LOCATION

Fig. 2

Date: Feb. 1996	Scale: 1:600,000	MNDM Plan#: 22-6
Drawn:	Interp: J.C. Grant	Job No. E-147



EXSICS EXPLORATION LTD.
P.O. Box 1000, P6A-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED
PROPERTY:	MANN BELT PN 8269
TITLE:	DUFF TWP DUF96-03 CLAIM SKETCH Fig.3

Date: Feb. 1996	Scale: 1"=1/2mile	MNDM Plan#: G-3234
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-147

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. Baseline 0+00 was turned off from the west shore of a lake which covers a portion of the northeast section of the grid. This baseline was cut from 800ME to 800MW, and generally follows the township line.Cross lines were turned off of this baseline at 100 meter intervals at cut to a tie line called 1000MS which represents the south boundary of the grid. The crosslines were chained with 25 meter pickets.

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 10 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 HLEM survey was successful in locating and outlining several conductive horizons on the grid. Zones A, which represents the most predominant feature on the grid will be interpreted seperately and in detail below. The other features will be discussed seperately as well.

ZONE A:

This zone represents the most predominant zone on the grid. Although somewhat distorted in appears to strike across lines 100MW to 800MW and continues off of the grid to the west. Infact it appears to be strengthening to the west. The zone represents a legitimate bedrock conductor situated at a depth to source of 60 to 75 meters with good conductivity of 12 to 15 mhos. The zone appears to dip to the north.

The magnetics suggest that the zone may represent a contact between to highly magnetic units or that the zone has been cross cut be a north-northwest trending dike like feature.

A second weaker zone was outlined striking across lines 400MW to 800MW and again appears to continue off of the grid to the west. The zone is considerably weaker than Zone A but does lie along the south edge of a magnetic high unit.

The last EM response is a single line response noted on line 600ME at the south end of the line. The zone may relate to a legitimate bedrock conductor, however, further work would be required to better define the strike and source of the zone. The magnetics for the same area as this single line reponse is very nondescript.

The magnetics suggest that there is a highly magnetic unit striking into the property at the northeast corner of the grid. This unit is propbably an ultramafic intrusive. It also appears to affect the shore line of the lake in the same vicinity. The out of phase of the MaxMin survey appears to react to this intrusive but there is no definite inphase response except on line 500ME at approximately 350MS which is in the lake. Further work on this zone is also required to better define the target.

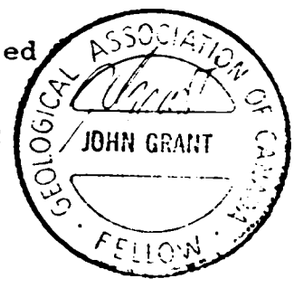
The magnetics suggest that there is a similar intrusive covering the northwest section of the grid which is identical in magnetic signature to the above mentioned unit.

CONCLUSIONS AND RECOMMENDATIONS

The geophysical surveys were successful in locating and outlining one good target on the grid and suggesting that the two weaker zones should be followed up further. The magnetics suggest that there is a number of cross structures present on the grid which appear to have interrupted the strike of the predominant feature. The weaker target areas appear to relate to the edges of the intrusives and may require further work to better define their strikes and validity.

A follow-up program should consist of drilling of the strong target, Zone A, and possibly extending the grid line to better define the weaker targets. This second portion of the follow-up program would, of course, be based on the drill results of Zone A.

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.

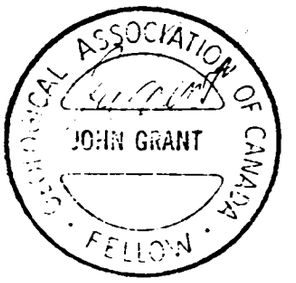
2) I am a Member of the Certified Engineering Technologist Association since 1984.

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
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)
Error	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 (.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

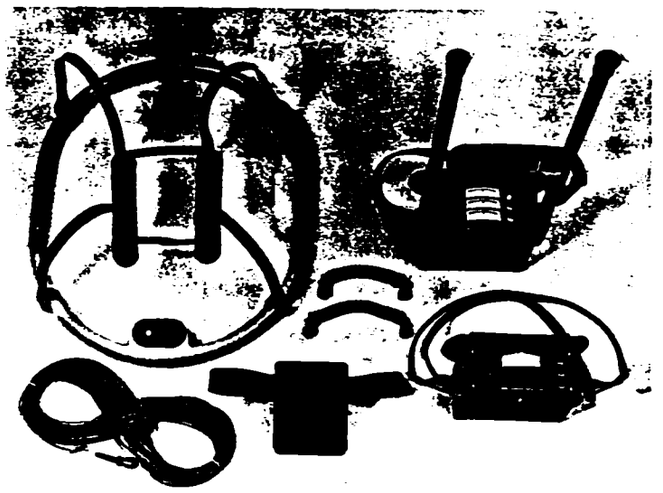
In U.S.A.
E D A Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422 9112

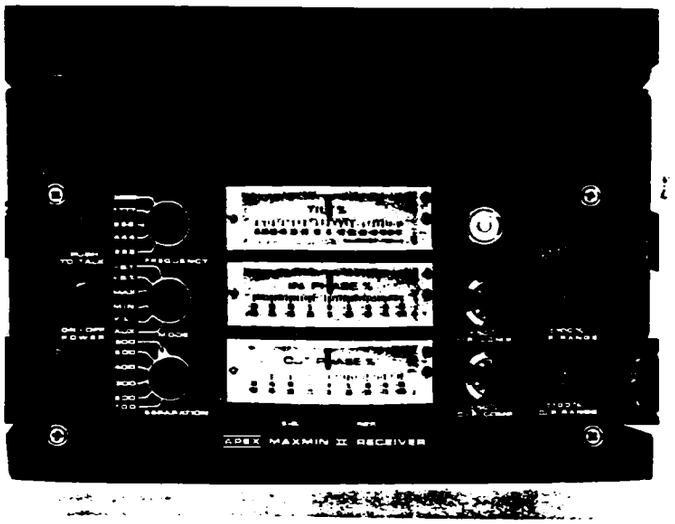
Printed in Canada

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.





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 reference 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.

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 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.

Reacability: 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:
- 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

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

Transmitter Batteries: 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.

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

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Transaction Number: W9660.00305

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

42A14NE0097 2.16648 REAUME

900

Instructions:
- Please type or print and sub
- Refer to the Mining Act and 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.

2.16648

Recorded Holder(s)		Client No.
FALCONBRIDGE LIMITED		130679
Address: 571 Moneda Ave. P.O. Box 1140 Timmins, Ont P4N 7H9		Telephone No.: (705) 267-1188
Mining Division: Porcupine	Township/Area: DUFF	M or G Plan No.
Dates Work Performed: From: JANUARY 20, 1996	To: FEBRUARY 10, 1996	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	Linecutting 21.8 km, Mag 21.8 km, HLEM 17.0 km
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 12,274

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 60 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)
	Apr. 12/96	C. Petti

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 Moneda Ave. P.O. Box 1140 Timmins Ont. P4N 7H9
CHRISTINE PETTI

Telephone No.	Date	Certified By (Signature)
(705) 267-1188	April 12/96	C. Petti

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
12274		Gary White	RECEIVED (C) APR 25 1996 TB
	Deemed Approval Date: July 24/96	Date Approved	
	Date Notice for Amendments Sent		PORCUPINE MINING DIVISION

3241 (2/95)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	P 1201967	6	50% 6137	2400	3737	
	P 1200934	15	50% 6137	6137		
	P1200933	9		3737		
	C P.					
	2		12,274	12,274	3737	
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	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. ~~Appendix~~ C P. P1200934, P1200933

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

241 (03/91)

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Ontario

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

GRID DUF9603

Transaction No./N° de transaction
Ci 9660.00305

2.16648

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	6181	Invoice # 404,
	HLEM	5243	408
	Mag		11424
Supplies Used Fournitures utilisées	Type Flagging	10	
	Picket tags	90	
			100
Equipment Rental Location de matériel	Type Truck	100	
	Snow mobile	50	
			150
	Total Direct Costs Total des coûts directs		12,274

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)		12,274

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. Fitch I am authorized
(Recorded Holder, Agent, Position in Company)

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 _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
C. Fitch	April 12/96

0212 (04/91)

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

EXSICS EXPLORATION LIMITED
CONTRACTING & CONSULTING GEOPHYSICS

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

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

INVOICE #:408
PROJECT #:E-147

2.16648

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 Duff 96-03

AT A RATE OF:

17.0 Km of Max Min @ $160.00/Km	$2,720.00
21.8 Km of Magnetic @ $100.00/Km	$2,180.00
	$4,900.00
7% GST	$ 343.00
TOTAL OF THIS INVOICE:	$5,243.00

DATE: February 14, 1996

SIGNED Karen Talon.

Paul Nagerl
8269

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

Feb 24 '96

EXSICS EXPLORATION LIMITED
CONTRACTING & CONSULTING GEOPHYSICS

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

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

INVOICE #:408
PROJECT #:E-147

2.16648

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 Duff 96-03

AT A RATE OF:

17.0 Km of Max Min @ $160.00/Km	$2,720.00
21.8 Km of Magnetic @ $100.00/Km	$2,180.00
	$4,900.00
7% GST	$ 343.00
TOTAL OF THIS INVOICE:	$5,243.00

DATE: February 14, 1996

SIGNED Karen Talon.

Paul Nagerl
8219
Feb 24 '96

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: 2.16648
Transaction #: W9660.00305

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) 1201957 (ET AL.) IN DUFF 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

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
SEC. 36/80	W.1/80	8/8/80	M + S	

~~THOSE PARTS OF THE ISLAND WITHDRAWN UNDER SECTION 35 OF THE MINING ACT R.S.O. 1960 ORDER IN COUNCIL NO. DATED MARCH 6,1962~~

~~RESERVED FEBRUARY 3, 1909 ORDER NO. O.P. 2/89 MR~~

~~THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1981/82. FURTHER INFORMATION ON FILE.~~

~~THIS TWP. NO FOREST ACTIVITY IN 1982/83.~~

~~RESERVED TWP.~~

Subdivision of this township into lots and concessions was annulled May 10, 1963.

SAND and GRAVEL

QUARRY PERMIT

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.

REAUME TP.

LUCAS TP.

MANN TP.

TULLY TP.

2.16648
MAG
EM

1200935 (12 UNITS)
1193110
1201257 (6 UNITS)
1200934 (15 UNITS)
1200933 (9 UNITS)
1169762
1204745 (6 Units)
1200990 (8 UNITS)
1200932 (6 UNITS)
1193104 (16 UNITS)
1193105 (4 UNITS)
1200989 (4 UNITS)
1200991 (4 UNITS) Crawfish Lakes
1200931 (2 UNITS)
1200929 (16 UNITS)
1200992 (4 UNITS)
1200993 (4 UNITS)
1203217 (2 UNITS)
1206866 (5 UNITS)
1200994 (9 UNITS)
1200995 (6 UNITS)

S.E. CORNER CO-ORDINATES
(Approx.)
LAT. 48° 47' 50"
DEP. 81° 04' 28"

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
LAND USE PERMIT	

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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

RECEIVED JUL 8 1985 MINING LANDS BRANCH

TOWNSHIP

DUFF

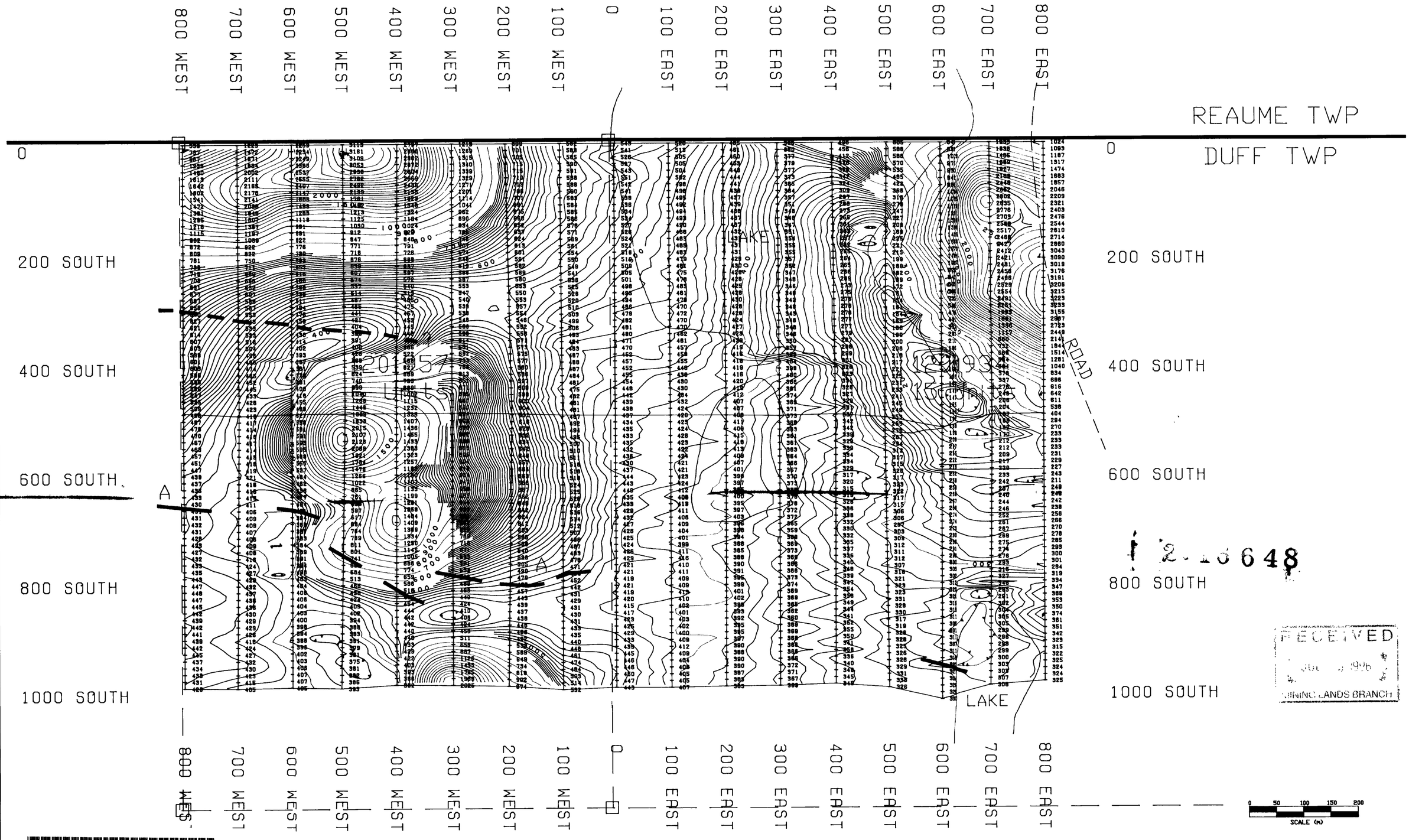
M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

2.16648

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH, 1985

Number G-3234



42A14NE0097 2.16648 REAUME

210

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: 0,10,20,30,40,50,.....
Reference Field: 57,960 gammas
Datum Subtracted: 57,500 gammas

2.16648

RECEIVED
MINING LANDS BRANCH

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: DUFF TWP DUF96-03
MAGNETOMETER SURVEY

Date:Feb. 1996	Scale: 1:5000	NTS:
Drawn:P.Gauthier	Interp: J.C.Grant	Job No.:E-147

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

REAUME TWP

DUFF TWP

0

200 SOUTH

400 SOUTH

600 SOUTH

800 SOUTH

1000 SOUTH

LAKE

ROAD

A

A'

15MHOS
-75m

12MHOS
-57m

14MHOS
-60m

DUF 96-03

12 0934
15 Units

2.16648

MAX-MIN 11

+ -

Out-of-phase (Background: 5)

Conductor Axis

In-phase (Background: 10)

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

RECEIVED
JUL 5 1996
MINING LANDS BRANCH

0 50 100 150 200
SCALE (m)

42A14NE0097 2 16648 REAUME

220

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%

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

CLIENT: FALCONBRIDGE LIMITED

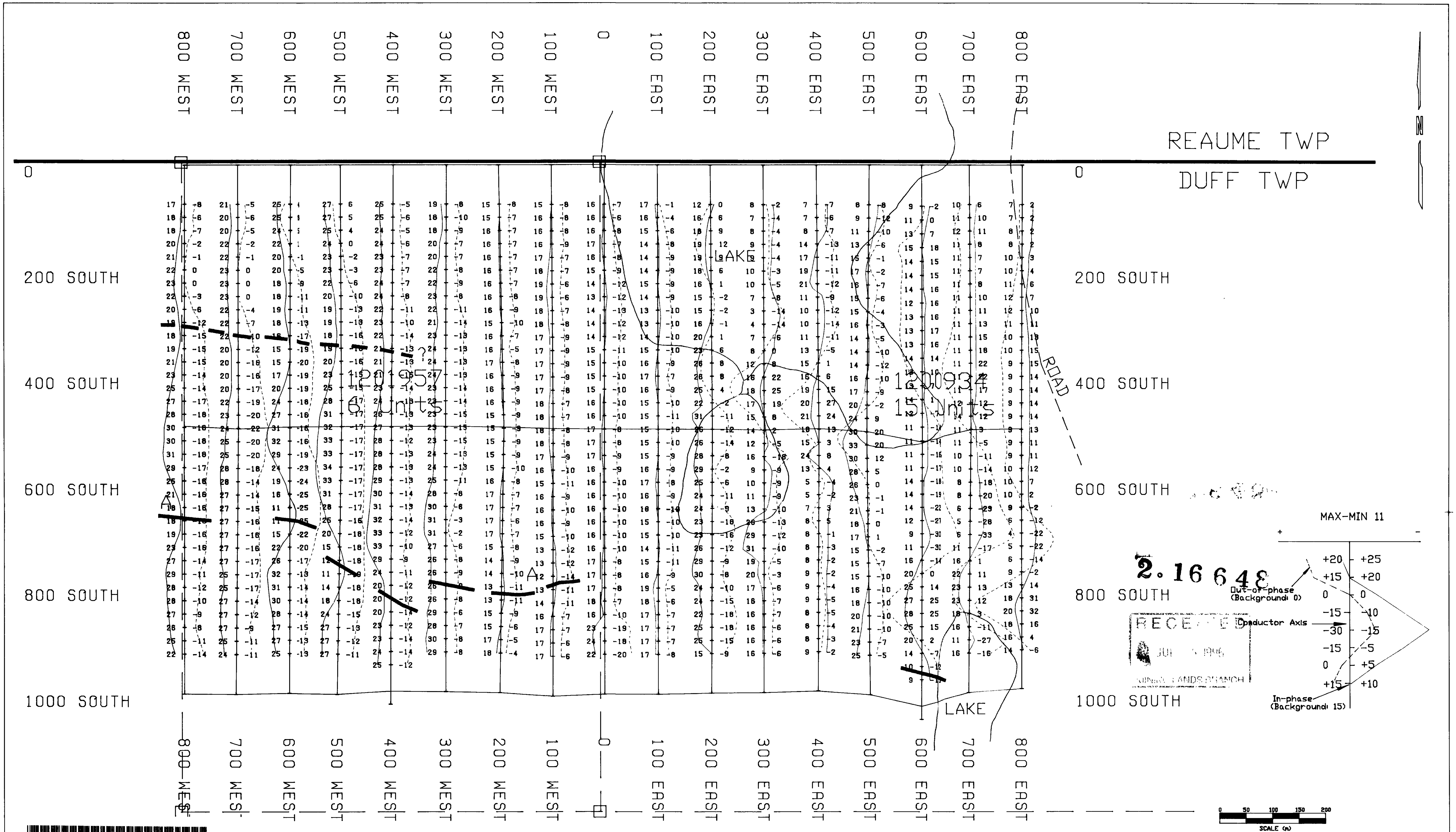
PROPERTY: MANN BELT PN 8269

TITLE: DUFF TWP DUF96-03

MAX-MIN II 444 Hz

Date:Feb. 1996	Scale: 1:5000	NTS:
Drawn:P.Gauthier	Interp: J.C.Grant	Job No.:E-147

ASSOCIATION OF PROFESSIONAL GEOSCIENTISTS OF ONTARIA
JOHN GRANT
FELLOW



42A14NE0097 2.16648 REAUME

230

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%

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:	DUFF TWP DUF96-03 MAX-MIN II 1777 Hz

Date: Feb. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-147

JOHN GRANT
GEOLOGICAL ASSOCIATION OF CANADA FELLOW