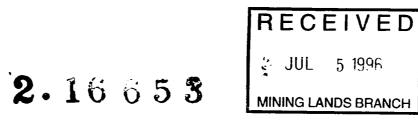


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GEOPHYSICAL REPORT FOR FALCONBRIDGE LIMITED ON THE MANN BELT GRID #MAN96-11 MANN TOWNSHIP, PORCUPINE MINING DIVISION NORTHEASTERN ONTARIO



Qual. # 2.3943

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

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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 #Man96-11, 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 February 20th,1996 and was completed on February 29, 1996. The geophysics was started on the 05th of March and was completed on the 6th of March,1996. In all, a total of 8.8 kilometers of grid lines were established on the claim group.

PROPERTY LOCATION AND ACCESS

Grid, Man96-11, is located in the central-south section of Mann Township and generally covers the north half of Lct 6 in Concession II. 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 northeast section of the grid. Travelling time from Timmins to the grid is approximately 2.2 hours.

CLAIM GROUP

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

P-61334, P-61335, P-61336, P-61337

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

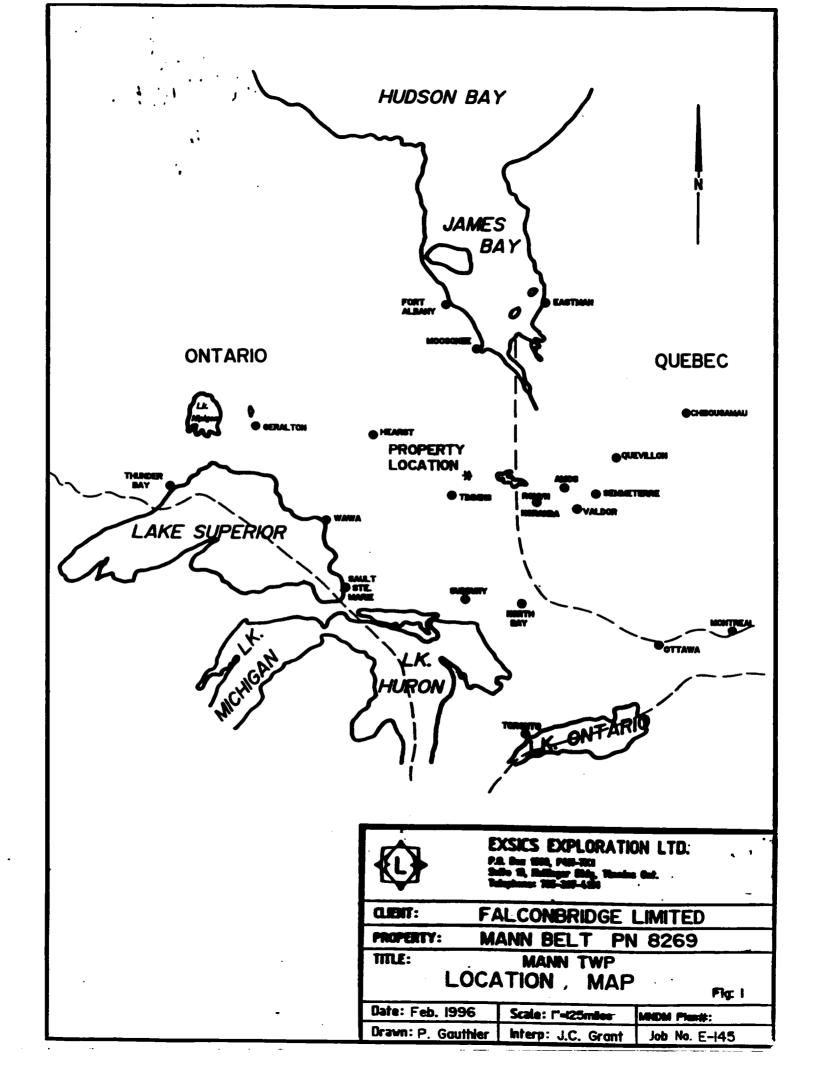
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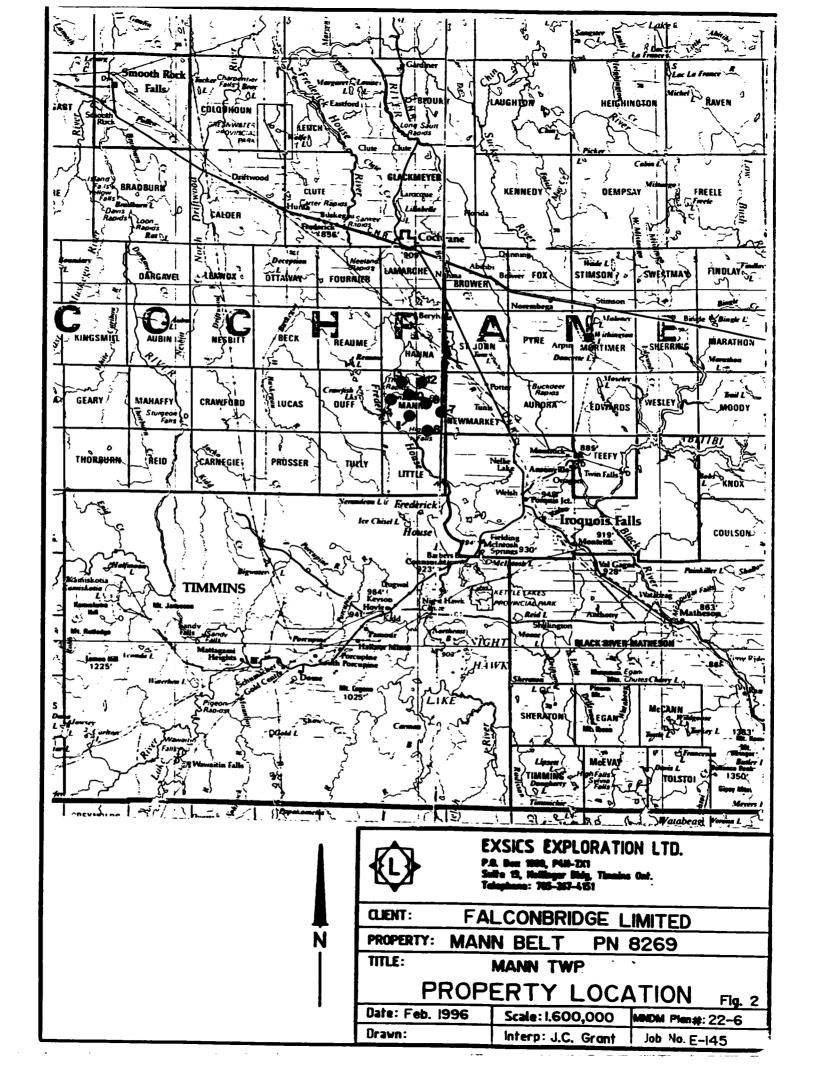
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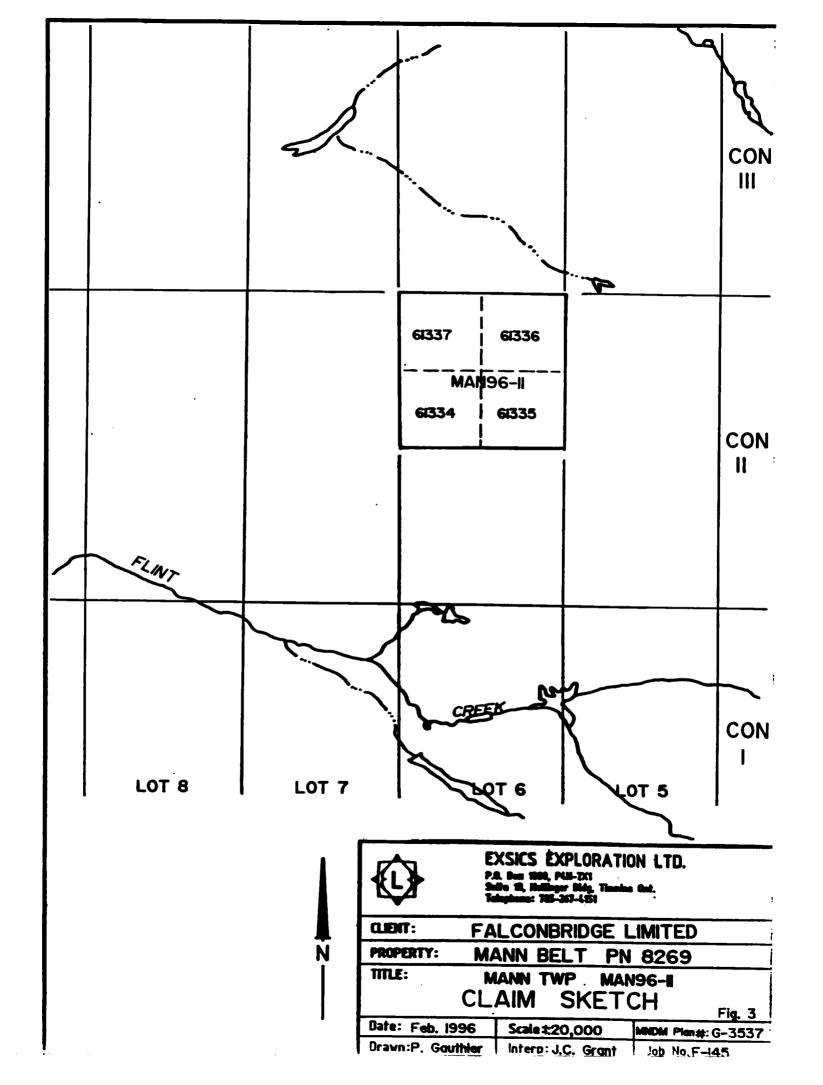
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The field crew directly responsible for the collection of all data were as follows:

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







Page 2

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 a starting point which had been spotted by Falconbridge personnel. The grid was then cut from this baseline to the 800MN tieline. The lines were from 800ME to 1600ME and were completed by a linecutting crew which had been contracted by Falconbridge directly. A total of 8.8 kilometers of grid lines were established.

GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey which was completed over the entire cut grid. The magnetic survey was completed using the BRGM, OMNI IV system. Specifications for this system can be found as Appendix A of this report.

MAGNETIC SURVEY:

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The following parameters were kept constant throughout the survey.

Linespacing Station spacing Reading interval Diurnal monitior record interval Reference field Datum subtract	25 meters 12.5 meters Base station recorder 30 seconds 57960 gammas 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.

SURVEY RESULTS

The magnetic survey was successful in mapping the geological structure of the grid. The strong magnetic high unit which covers most of the south and central section of the grid probably relates to the ultramafic intrusive. The spotty mag lows on the south side of the intrusive may relate to a dipole effect due to the extreme mag high readings.

The broad magnetic low values contained within the north central section of the grid may relate to a fault zone cross cutting the grid in a northeastern direction or it may be indicative of a geological unit of felsic materials.

The strong magnetic unit noted on the northwest section of the grid again probably relates to a band of ultramafic intrusives striking across the grid.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic survey did outline the suspected geological structure of the grid. There are several units of ultramafic intrusives which appear to either flow around a felsic unit or cross cut the felsics. A follow-up program of either HLEM surveys or deep-EM surveys would be required to better define any and all conductive materials on the grid.

A drill program would then be based on the results of the EM surveys.

Respectfully submitted

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



Page 3

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

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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

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specifications	
Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature
	appresses hist significant digit upon exceeding 100.000
	Jammas. Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Au Dimatic Fine Tuning	developed tuning algorithm
	 ± 15% relative to ambient field strength of last stored value
Visplay Resolution	
Ubsolute Accuracy	1 + 1 = 0.01 gamma at 50 000 gemma at anot
	± 2 gamma over total temperature range
tand Memory Capacity	
1 al Field or Gradient	··· 1,200 data blocks or sets of readings
The Line Points Base Station	·· 100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
······································	 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 appril puters.
S 2 Serial I/O Interface	monitor and function descriptors.
	2400 baud, 8 data bits, 2 stop bits, no parity
	A. Diagnostic testing (data and programmable memory)
	 Self Test (hardware) Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
	9.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation
ensor Cable	Remains flexible in temperature range specified, includes
vc 1g Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1
perating Environmental Range	
Dv r Supply	Cartridge or belt; rechargeable sealed lead-acid battery Cartridge or belt; rechargeable NiCad or Disposable battery Cartridge or belt; or 12V DC power source option for bors
31 IV Cartridge / Belt Life	station operation.
	 2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
'eights and Dimensions	Í
Ir rument Console Only	- 2.8 kg, 238 x 150 x 250mm
Gradient Sensor	- 1.2 kg, 56mm diameter x 200mm
(5 m separation - standard) Gi dient Sensor	2.1 kg, 56mm diameter x 790mm
(1.0m separation - optional)	- 2.2 Kg, 56mm diameter x 1300mm
	 2.2 kg, somm diameter x 1300mm Instrument console; sensor; 3-meter cable, aluminum Sectional sensor staff, power supply, harness assembly, Operations manual.
	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

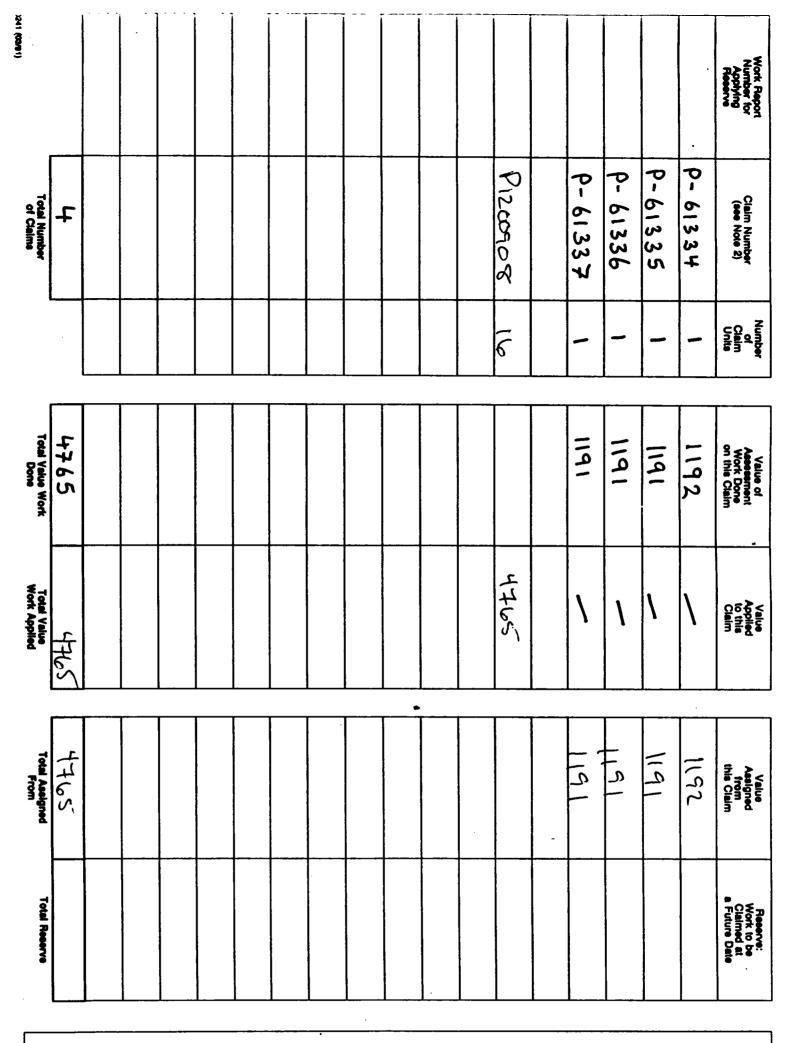
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Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (\sim) one of the following:

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. So Credits are to be cut back as priorized on the attached appendix. $\rho = 61334$

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	Signature	Date
or leased land at the time the work was performed.		

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Ministry of Northern Development and Mines Ministère du

F.

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

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 6AS, telephone (705) 670-7264.

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totais Total global
Wages Salaires	Labour Main-d'oeuvre	300	
	Field Supervision Supervision sur le terrain	300	600
Contractor's and Consultant's Fees	Linecutting	3064	Invoice# 421,
Droits de l'entrepreneur	HLEH-		429
et de l'expert- conseil	Mag	941	4005
Supplies Used Fournitures utilisées	Flagging	10	
01	Picket tags		
			10
Equipment Rental Location de	Truct	100	
matériel	Snow mobile	50	
			150
Total Direct Costs Total des coûts directs			4765

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.

Filing Discounts

- 1. Work liled 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 -	

Certification Verifying Statement of Costs

I hereby certily:

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	I am authorized
	(Recorded Holder, Agent, Position In Company)	

to make this certification

ransaction No./N* de transaction 00 GRID

MAN96-11

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 collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4º étage. Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

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.

Туре	Description	Arnount Montant	Totais Total globai	
Transportatio Transport	Туре			
-				
	RECEIVED	P		
	JUL 5 1996			
Food and	ING LANDS SHANCH			
Lodging Nourriture et hébergement				
Mobilization au Demobilization Mobilisation et démobilisation	d			
	Sub Total of Indi Total partiel des coûts	rect Costs Indirects		
Montant admiss	le (not greater than 20% of Di ble (n'excédant pas 20 % des	rect Costs) coûts directs		
Total Value of / (Total of Direct a indirect costs)		oûts directs	4765	

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.

Remises pour dépôt

- 1. Les travaux déposés dans les deux ans suivant leur achévement 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 calcuis ci-dessous.

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

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.

El qu'à titre de je suls autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	57	Date
C	Tile	Haij 12/5,6

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

C212 (04/91)

EXSICS EXPLORATION LIMITED

CONTRACTING & CONSULTING GEOPHYSICS

Tel. (705) 267-4151 Fax (705) 264-5790 P.O. Box 1880 Timmins, Onterio P4N 7X1

2 18833

INVOICE #:421 PROJECT #:E-144

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

ATTENTION: Paul Nager1

C.S.T. REGISTRATION # 113433791

RE: Linecutting Mann 96-11

AT & RATE OF: 8.8 Km of Linecutting @ \$280.00/Km Access

7% GST

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TOTAL OF THIS INVOICE:

DATE: March 1, 1996

SIGNED Kavan later

JUL 5 1996 MINING LANDS BRANCH

RECEIVED

464	
864	
\$ 200	.48

\$3,064.48

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Pour Nagel Ma 1'96 8269

RECEIVED MAR 0 1 1856

PAYMENT DUE UPON RECEIPT OF INVOICE. TERMS: NET 30, 24 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

RECTOR Marcine Vietnes

INVOICE #:429 PROJECT #:E-145

ON ACCOUNT WITH:

Falconbridge Limited P.O. Box 1140 Timmins, Ontario

Attention: P. Nagerl

G.S.T. REGISTRATION # 113433791

RE: Magnetic surveys Man96-11

AT A RATE OF: 8.8 kilomters of magnetics @ \$100.00/km.... \$880.00 7% GST..... <u>\$ 61.60</u>

TOTAL OF THIS INVOICE:

DATE: March 6, 1996

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SIGNED:

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



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\$941.60



Ministry of Ministère du Geoscience Assessment Office Northern Development Développement du Nord 933 Ramsey Lake Road et des Mines and Mines 6th Floor Sudbury, Ontario P3E 6B5 Telephone: (705) 670-5853 (705) 670-5863 Fax: July 19, 1996 Our File: 2.16653 Transaction #: W9660.00310

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(8) P 61334 (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 17, 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.

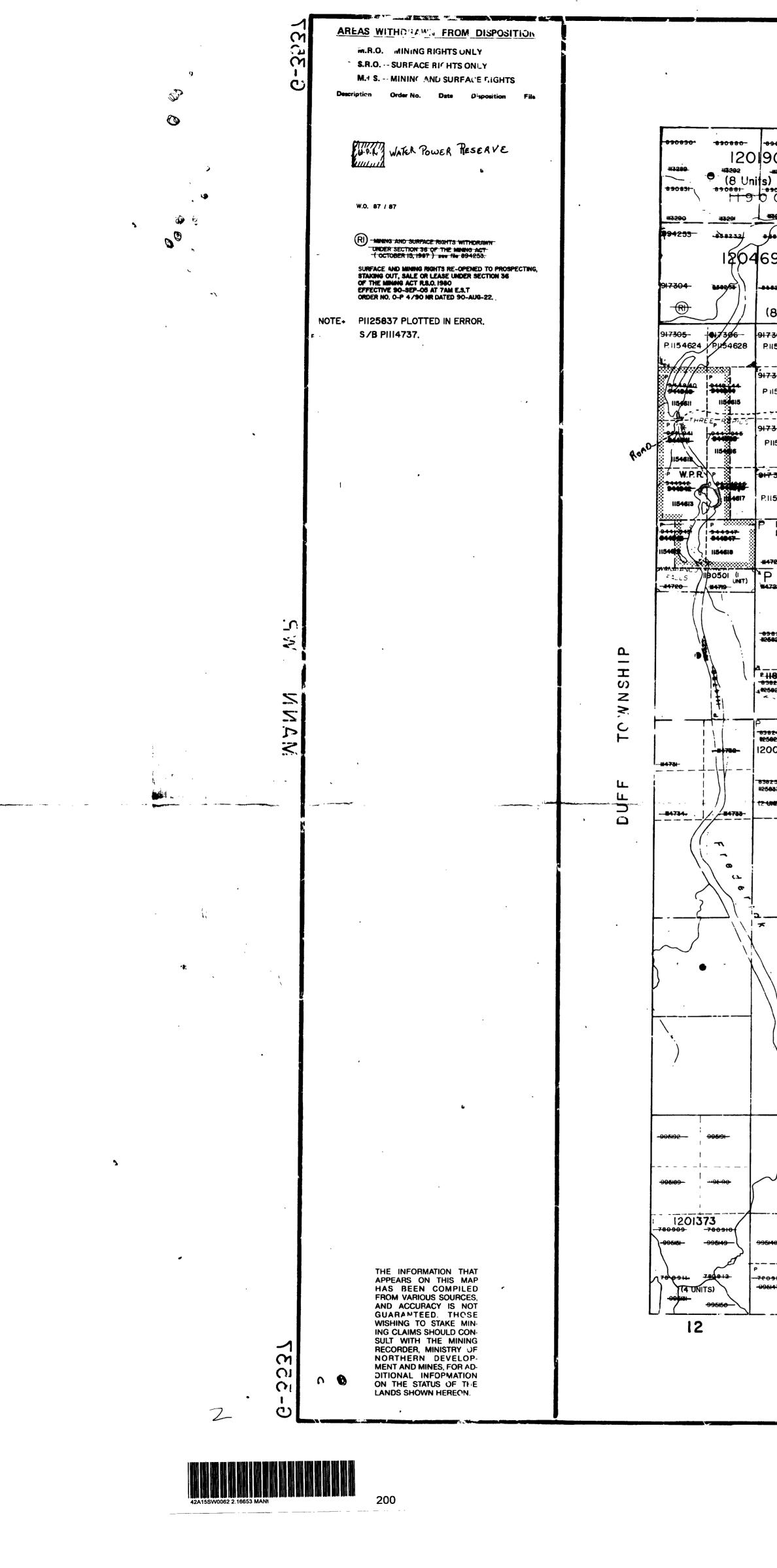
Yours sincerely, ORIGINAL SIGNED BY:

Zon Clati

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

BOB BIG/jf

cc: Resident Geologist Timmins, Ontario Assessment Files Library Sudbury, Ontario

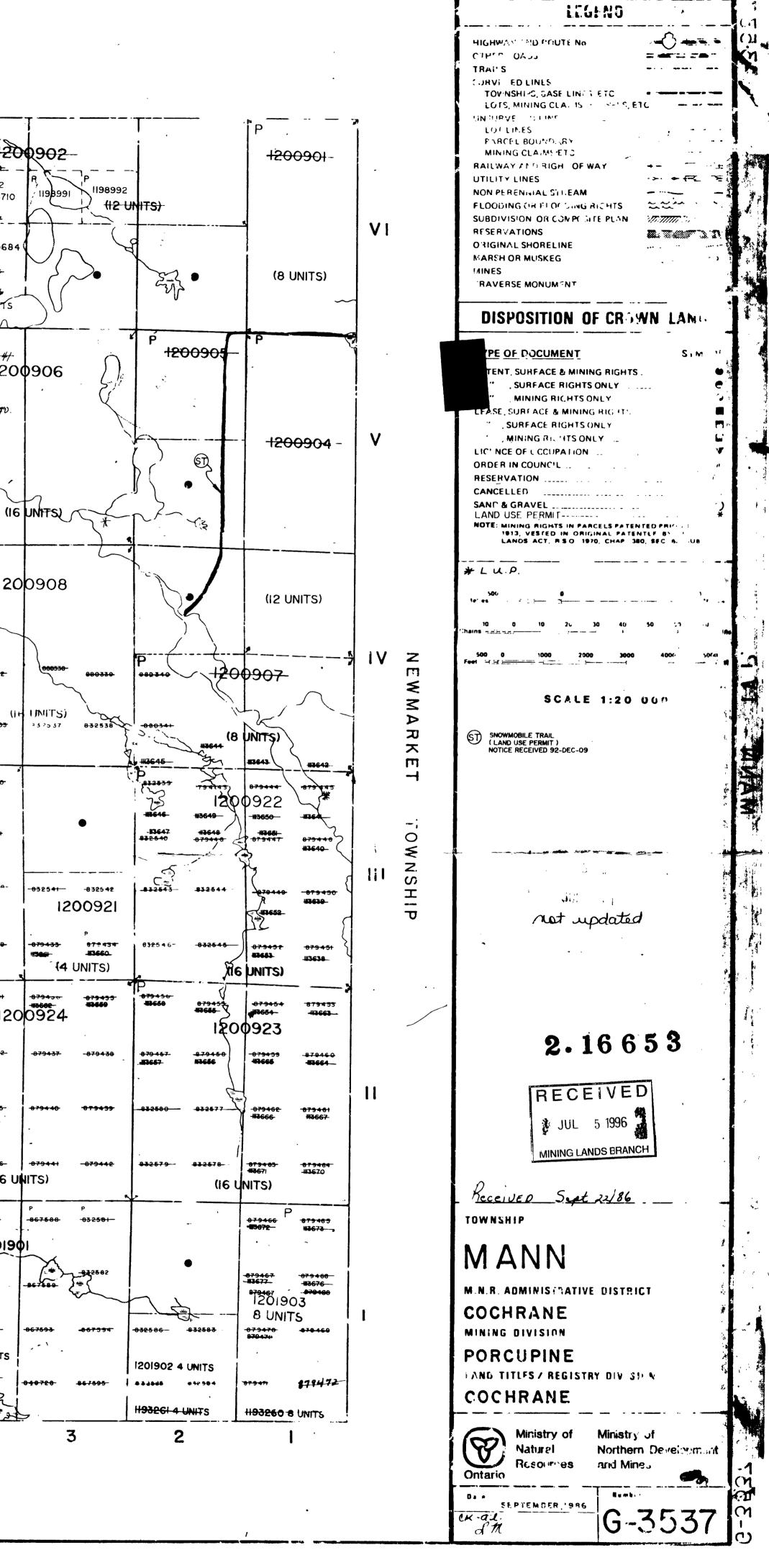


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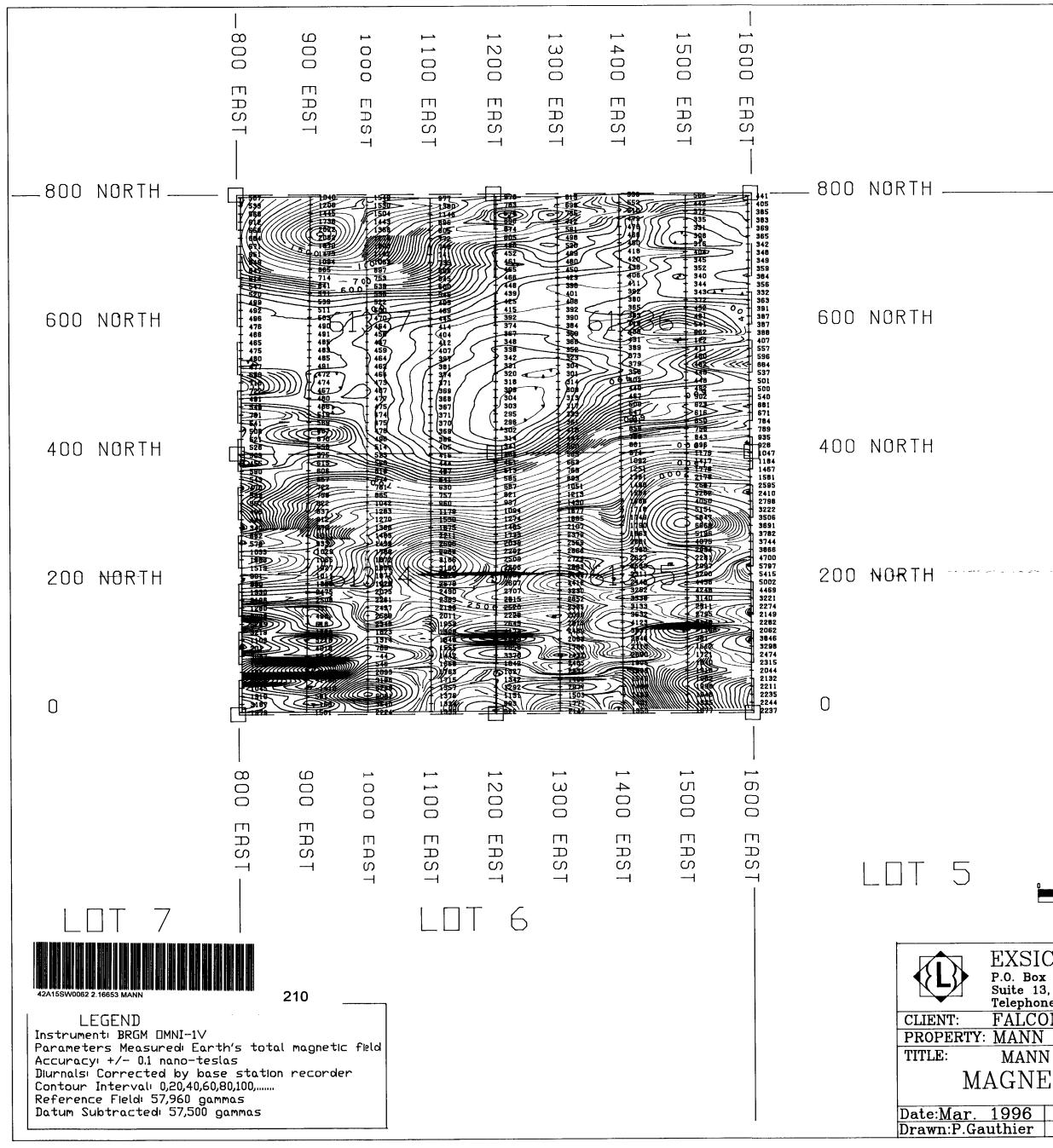
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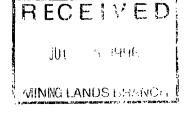


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EXSICS EXPLORATION LTD P.O. Box 1860, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151 CLIENT: FALCONBRIDGE LIMITED PROPERTY: MANN BELT PN# 8269 TITLE: MANN TWP MAN96-11 MAGNETOMETER SURVEY Date:Mar. 1996 Scale: 1:5000 NTS: Drawn:P.Gauthier Interp: J.C.Grant Job No.:E-1



2.16653

CDN II