



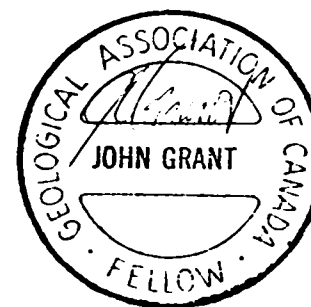
42A07NE0015 2 16532 CURRIE

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GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
CURRIE-BOWMAN OPTION
GRID A, FILL-IN, CURRIE TOWNSHIP
LARDER LAKE MINING DIVISION
NORTHEASTERN ONTARIO

2.16532

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





42A07NE0015 2 16532 CURRIE

010C

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INTRODUCTION

The services of Exsics Exploration Limited were retained by Falconbridge Limited to complete several small fill-in grids on a larger grid which had been cut on the Currie-Bowman Option during the summer of 1995. The original grid consisted of 200 meter spaced lines which covered the whole option. This initial grid was then covered by a total field magnetic survey and an HLEM survey. The results of this first program prompted Falconbridge to cut several lines between the existing grid lines to better define weak HLEM anomalies. These new grid were completed during the month of January, 1996 and are called Grids A,B,C and D.

Each of these new lines were then followed-up with an HLEM survey as well as a total field magnetic survey which was tied into the existing surveys.

This report will deal with the results of this new 1996 fill in program on Grid A.

PROPERTY LOCATION AND ACCESS

Grid A of the fill-in, 1996, program is located in the southwest section of Currie Township, east of the Little Grindstone Creek and south of the Grindstone River. More specifically it is situated approximately 6 to 7 kilometers south of the Village of Shillington. Shillington is situated on Highway 101, approximately 45 kilometers east of the City of Timmins, Ontario. Currie Township is part of the Larder Lake Mining Division. Figures 1 and 2.

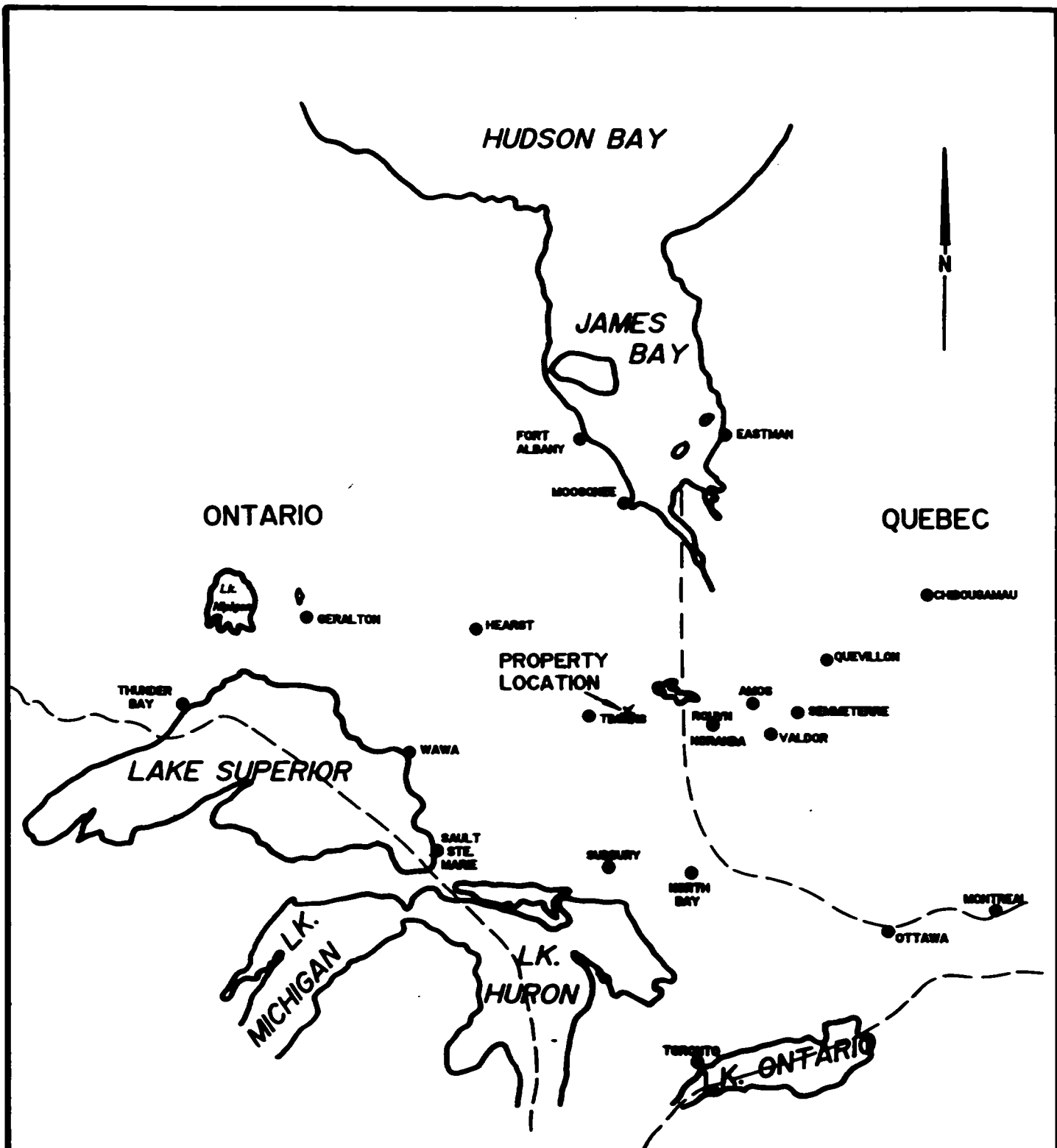
Access to the grid was ideal during the survey period. There is a gravel road running south along the township line between Bond and Currie and in the summer this road would provide drivable access to the west side of the grid. During thw program only a portion of this road was plowed but the grid is easily accessible by skidoo. A good trail running east off of this road parallels the 9200MN baseline and is skidooable to the fill-in lines. Travelling time from Timmins to the site is approximately 1 hour.

CLAIM GROUP

The claim numbers which were partially covered by the fill-in program are as follows:

L-1201417 L-1201249

Refer to figure 3, copied from the MNDM plan map of Currie Twp.



EXSICS EXPLORATION LTD.

P.O. Box 1000, P4S-7X1
 Suite 20, Millinger Bldg, Thunder Ont.
 Telephone: 705-357-4251

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

**TITLE: CURRIE TOWNSHIP PN 8262
 LOCATION MAP**

Fig. 1

Date: Jan. 1996

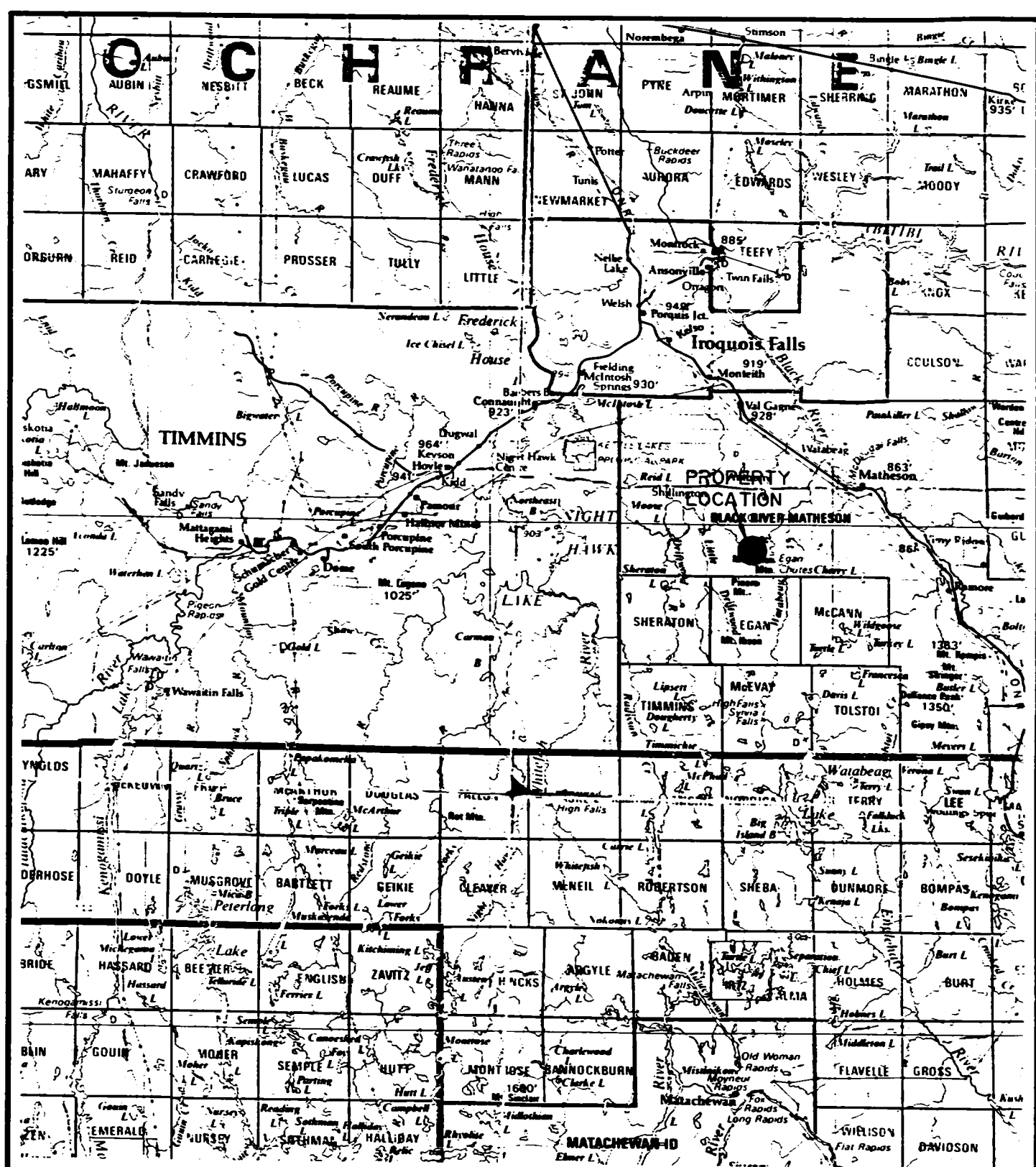
Scale: 1"=25miles

MNDM Plan#:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-149



EXSICS EXPLORATION LTD.
 P.O. Box 1000, P4N-7X1
 Suite 13, Hollinger Bldg. Timmins Ont.
 Telephone: 705-267-451

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TOWNSHIP PN 8262

PROPERTY LOCATION Fig. 2

Date: Jan. 1996

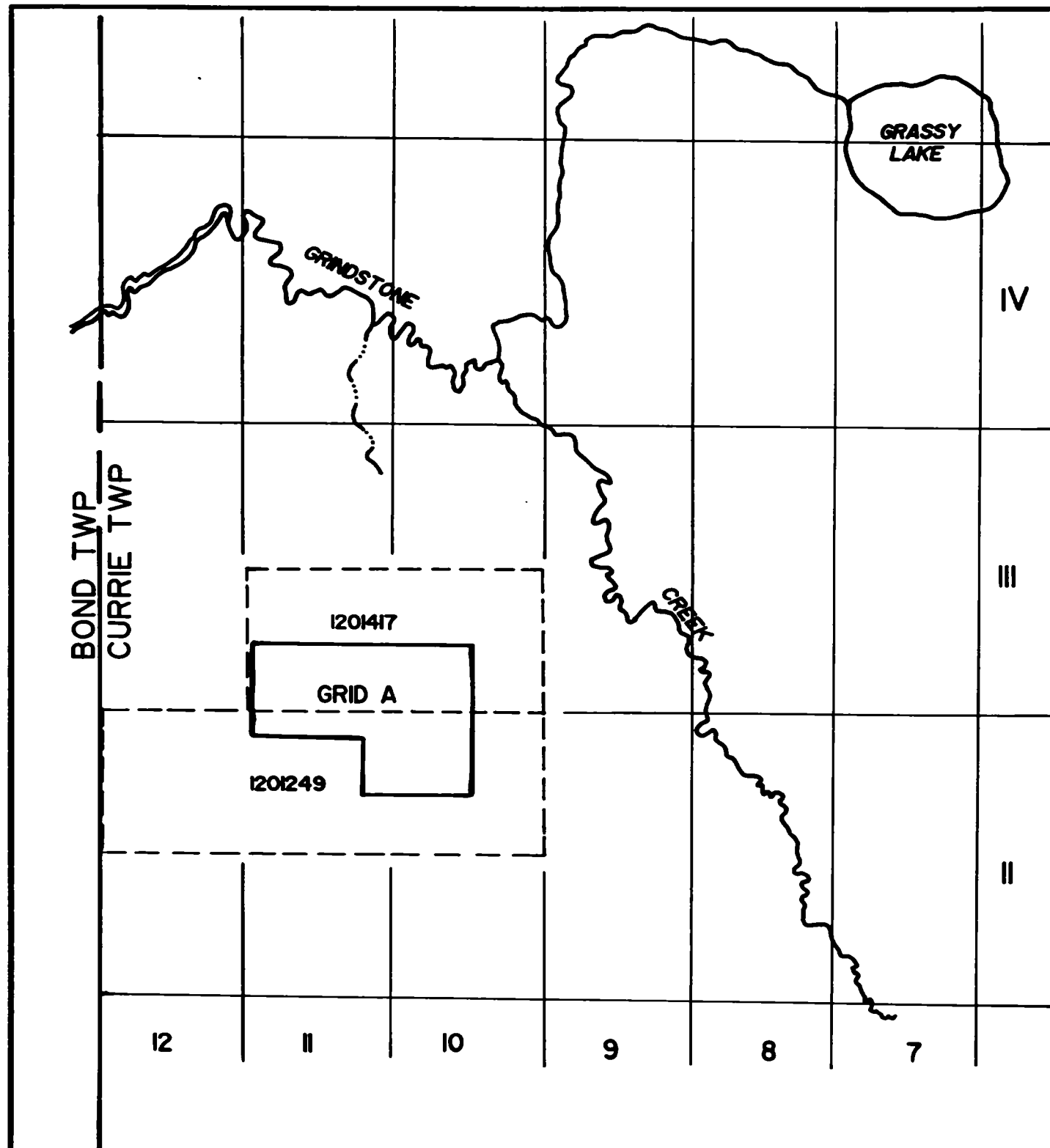
Scale: 1:600,000

MNDM Plan#: 22-6

Drawn:

Interp: J.C. Grant

Job No. E-149



EXSICS EXPLORATION LTD.

P.O. Box 1000, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-451

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TOWNSHIP PN 8262

GRID A CLAIM SKETCH

Fig. 3

Date: Jan. 1996

Scale: 1"=1/2mile

MNDM Plan#:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-149

PERSONNEL

The field crew directly responsible for cutting and surveying the grid were as follows.

John derWeduwen..... South Porcupine
Bruce Pigeon..... South Porcupine

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

GROUND PROGRAM

This program consisted of cutting lines between the existing grid to better define weak HLEM conductors. The new lines to be cut were 10900ME, 11100ME, 11500ME, 11700ME and 11900ME from 9700MN to 9100MN and 8800MN. In all, a total of 5.3 kilometers of new grid were established. The cutting was completed between January 5th and 9th, 1996

The geophysical program consisted of completing an HLEM survey on the new lines and a detailed total field magnetic survey being completed on the entire grid from lines 10800ME to 12000ME and between 9700MN to 8800MN. In effect, 10.9 kilometers of magnetics were done and 3.5 kilometers of HLEM were done. The survey was completed between January 14th and 15th, 1996.

SURVEY PROCEDURE

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 following parameters were kept constant throughout the survey.

Linespacing..... 100 meters
Station spacing..... 20 meters
Reading interval..... 10 meters
Diurnal monitor..... base station recorder
Record interval..... 30 seconds
Reference field..... 57500 gammas
Datum subtract..... 56900 gammas
Unit accuracy..... +/- 0.1 gamma
Parameters measured..... Earth's total magnetic field

The collected, corrected and levelled data was then plotted on to a base map at a scale of 1:5000 and contoured at 10 gamma intervals where possible.

A copy of this contoured mag map is included in the back pocket 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.

The following parameters were kept constant throughout the survey.

Linespacing.....	200 meters
Station spacing.....	20 meters
Reading interval.....	20 meters
Coil Seperation.....	150 meters
Theoretical search depth.	75-85 meters
Frequencies recorder.....	1777hz and 444hz
Parameters measured.....	inphase and quadrature components of the secondary field.

The collected data was plotted directly onto a base map at a scale of 1:5000, one map for each frequency, and then profiled at 1cm=+/-20%. Any and all conductor axis were placed directly onto the base map and interpreted for depth and conductivity where possible. A copy of each profiled frequency is included in the back pocket of this report.

SURVEY RESULTS

The HLEM survey outline one moderate conductive zone striking across the grid lines. The zone is interpreted to be at a depth of 75 to 85 meters and with a moderate conductivity of 5 to 6 mhos. The conductor appears to be at the outer limites of the search capabilities of the HLEM survey.

The magnetics suggest that there are a number of cross structure present on the grid. There is two north-south structures paralleling lines 10900ME and the north half of 11800ME. There also appears to be a minor fault structure cross cutting the grid from line 11400ME/9100MN to line 11800ME/9500MN. The only correlation with the HLEM conductor is the mag high bullseye on line 11600ME and the flanking mag high on line 11100ME. The conductor does not appear to have any definite magnetic association.

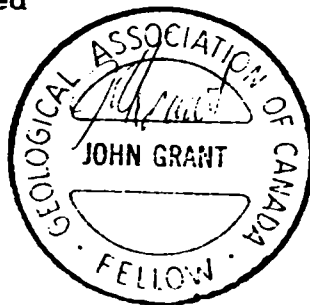
CONCLUSIONS AND RECOMMENDATIONS

The ground program was successful in outlining one weak conductive zone on the grid. Unfortunately, the zone is situated at the maximum penetration capabilities of the survey. The magnetic survey does not appear to enhance the zone.

Should diamond drilling be considered, then the HLEM zone should be followed-up with a deep penetrating survey to better define the zone and to spot a drill hole collar.

Respectfully submitted

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

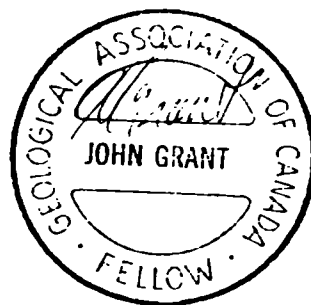


CERTIFICATE

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 subsequently 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	$\pm 15\%$ 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 $+55^{\circ}\text{C}$. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS232 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
Counting Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to $+55^{\circ}\text{C}$; 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

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

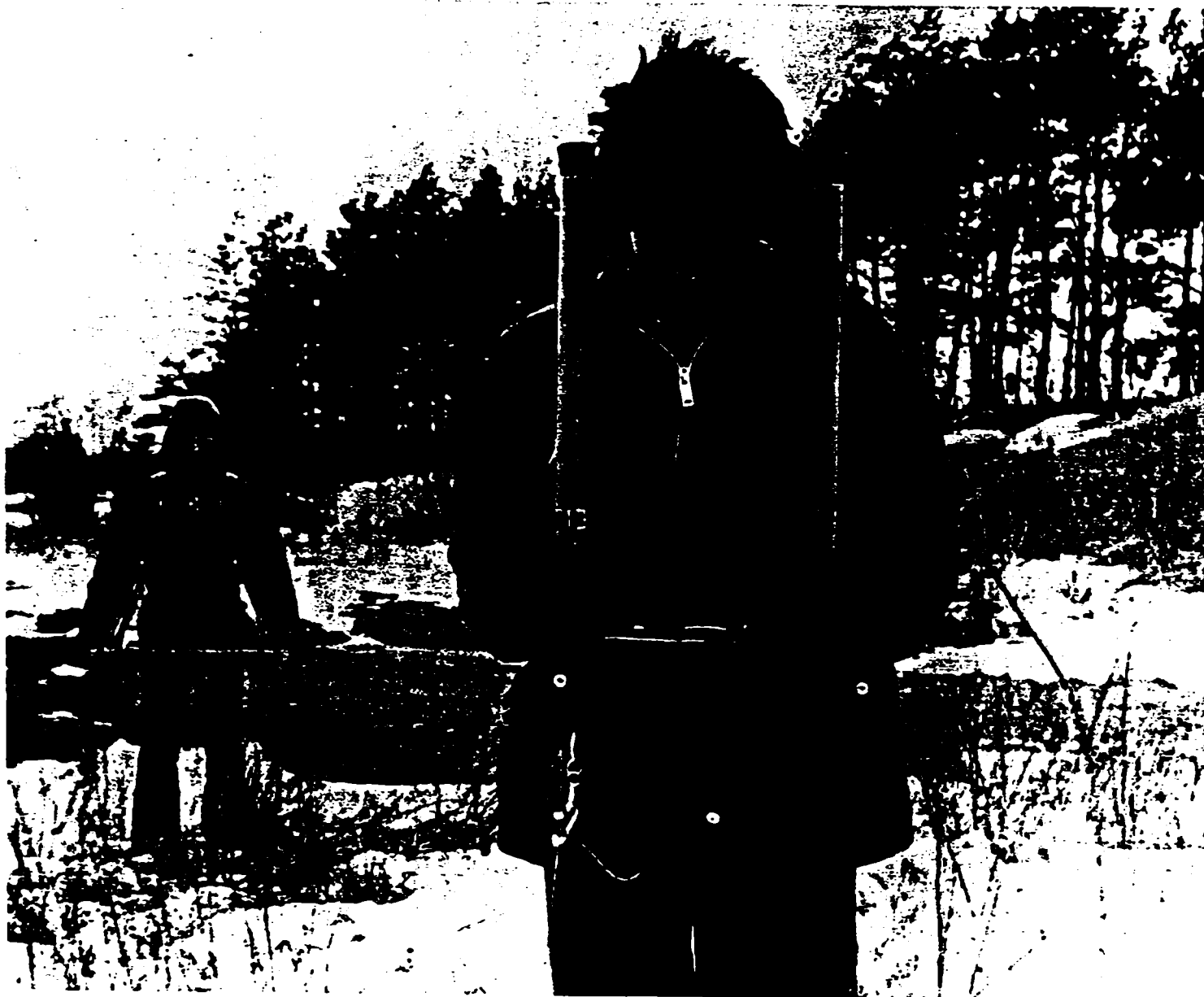
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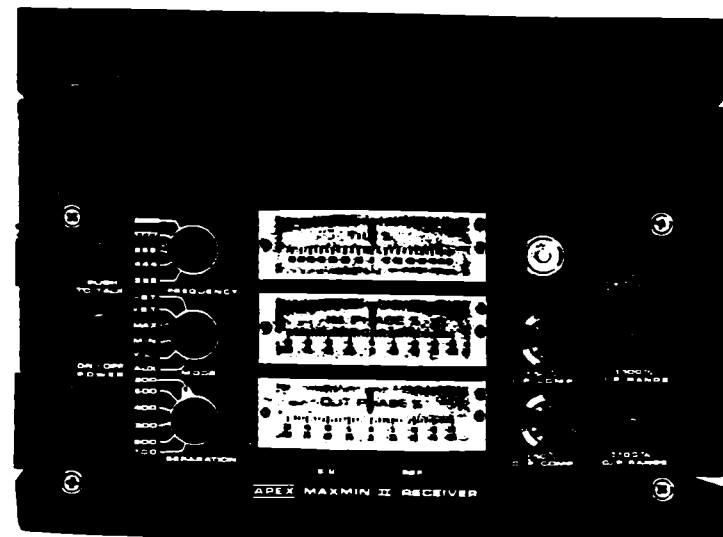
APPENDIX B

APEX

MAXMIN II PORTABLE EM

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





SPECIFICATIONS :

Frequencies:	222, 444, 888, 1777 and 3555 Hz.	Repeatability:	$\pm 0.25\%$ to $\pm 1\%$ normally, depending on conditions, frequencies and coil separation used.
Modes of Operation:	<p>MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.</p> <p>MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.</p> <p>V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.</p>	Transmitter Output:	<ul style="list-style-type: none"> - 222Hz : 220 Atm² - 444Hz : 200 Atm² - 888Hz : 120 Atm² - 1777Hz : 60 Atm² - 3555Hz : 30 Atm²
Coil Separations:	<p>25, 50, 100, 150, 200 & 250m (MMID) or 100, 200, 300, 400, 600 and 800 ft. (MMIF).</p> <p>Coil separations in V.L. mode not restricted to fixed values.</p>	Receiver Batteries:	9V trans. radio type batteries (4). Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.
Parameters Read:	<ul style="list-style-type: none"> - In-Phase and Quadrature components of the secondary field in MAX and MIN modes. - Tilt-angle of the total field in V.L. mode. 	Transmitter Batteries:	12V 6Ah Gel-type rechargeable battery. (Charger supplied).
Readouts:	<ul style="list-style-type: none"> - Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary. - Tilt angle and null in 90mm edgewise meters in V.L. mode. 	Reference Cable:	Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.
Scale Ranges:	<p>In-Phase: $\pm 20\%$, $\pm 100\%$ by push-button switch.</p> <p>Quadrature: $\pm 20\%$, $\pm 100\%$ by push-button switch.</p> <p>Tilt: $\pm 75\%$ slope.</p> <p>Null (V.L.): Sensitivity adjustable by separation switch.</p>	Voice Link:	Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.
Readability:	In-Phase and Quadrature: 0.25 % to 0.5 % ; Tilt: 1%.	Indicator Lights:	Built-in signal and reference warning lights to indicate erroneous readings.
		Temperature Range:	-40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$).
		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



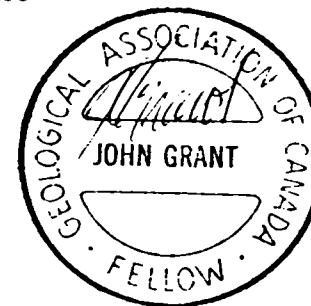
42A07NE0015 2 16532 CURRIE

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GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
CURRIE-BOWMAN OPTION
GRID B, FILL-IN, CURRIE TOWNSHIP
LARDER LAKE MINING DIVISION
NORTHEASTERN ONTARIO

2.16532

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





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PROFILED 444HZ FREQUENCY	

INTRODUCTION

The services of Exsics Exploration Limited were retained by Falconbridge Limited to complete several small fill-in grids on a larger grid which had been cut on the Currie-Bowman Option during the summer of 1995. The original grid consisted of 200 meter spaced lines which covered the whole option. This initial grid was then covered by a total field magnetic survey and an HLEM survey. The results of this first program prompted Falconbridge to cut several lines between the existing grid lines to better define weak HLEM anomalies. These new grid were completed during the month of January, 1996 and are called Grids A,B,C and D.

Each of these new lines were then followed-up with an HLEM survey as well as a total field magnetic survey which was tied into the existing surveys.

This report will deal with the results of this new 1996 fill in program on Grid B.

PROPERTY LOCATION AND ACCESS

Grid B of the fill-in, 1996, program is located in the south section of Currie Township, immediately east of Grindstone Creek and south of Grassy Lake. A portion of Grindstone Creek crosses the south section of the grid. More specifically it is situated approximately 6 to 7 kilometers southeast of the Village of Shillington. Shillington is situated on Highway 101, approximately 45 kilometers east of the City of Timmins, Ontario. Currie Township is part of the Larder Lake Mining Division. Figures 1 and 2.

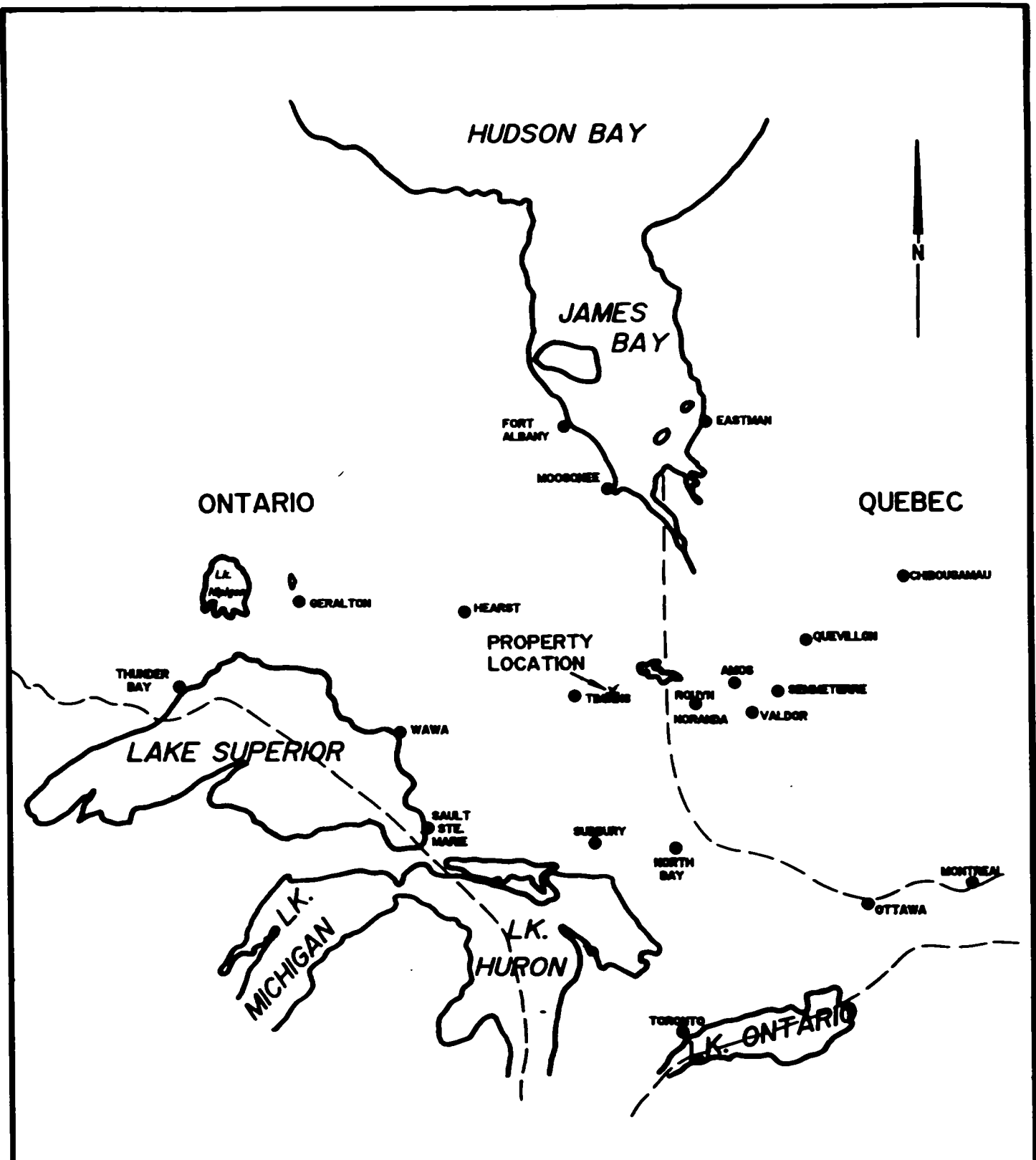
Access to the grid was ideal during the survey period. There is a good all weather, gravel road running south along the boundary line between lots 8 and 9 of Currie which comes to within 300 meters of the north boundary of the grid and tieline 10400MN. A good trail running south off of this road parallels line 13200MN. Travelling time from Timmins to the site is approximately 1 hour.

CLAIM GROUP

The claim numbers which were partially covered by the fill-in program are as follows:

L-1198869

Refer to figure 3, copied from the MNDM plan map of Currie Twp.



EXSICS EXPLORATION LTD.

P.O. Box 1000, P4M-7X1
 Suite 12, Milligan Bldg, Timmins Ont.
 Telephone: 705-267-6261

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

**TITLE: CURRIE TOWNSHIP PN 8262
 LOCATION MAP**

Fig. 1

Date: Jan. 1996

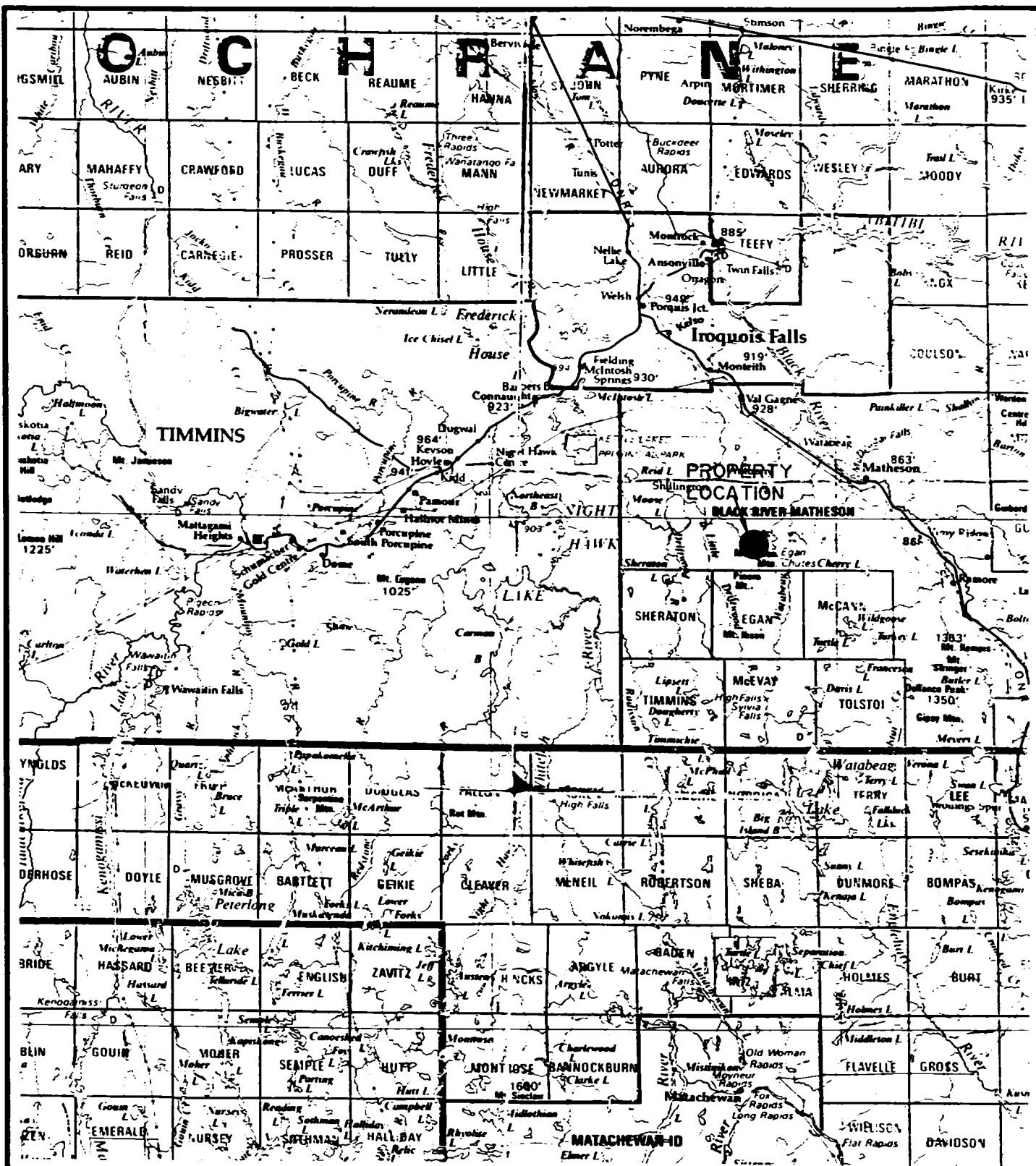
Scale: 1"=25miles

MNDM Plan#:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-149



EXSICS EXPLORATION LTD.

P.O. Box 1000, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-451

CLIENT: FALCONBRIDGE LIMITED

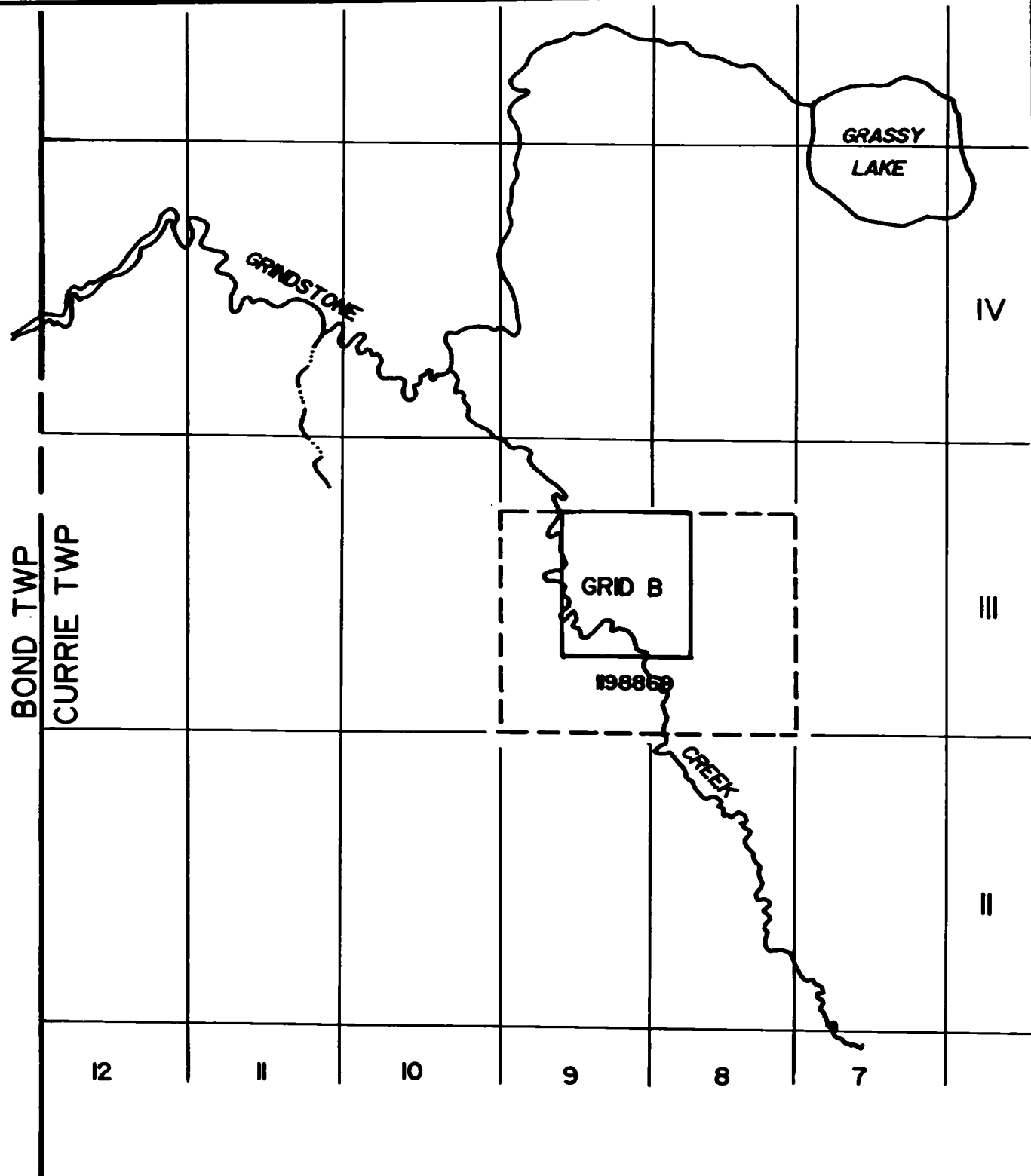
PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TOWNSHIP PN 8262

PROPERTY LOCATION Fig. 2

Date: Jan. 1996 **Scale: 1:600,000** **MNDM Plan#: 22-6**

Drawn: Interp: J.C. Grant **Job No. E-149**



EXSICS EXPLORATION LTD.

P.O. Box 1080, P4M-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT:	FALCONBRIDGE LIMITED	
PROPERTY:	CURRIE - BOWMAN OPTION	
TITLE:	CURRIE TOWNSHIP PN 8262	
GRID B	CLAIM SKETCH	Fig. 3

Date: Jan. 1996	Scale: 1"=1/2mile	MNDM Plan#:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-149

PERSONNEL

The field crew directly responsible for cutting and surveying the grid were as follows.

John derWweduwen..... South Porcupine
Bruce Pigeon..... South Porcupine

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

GROUND PROGRAM

This program consisted of cutting lines between the existing grid to better define weak HLEM conductors. The new lines to be cut were 12800ME, 12900ME, 13100ME, and 13300ME from 10400MN to 9600MN. In all, a total of 4.2 kilometers of new grid were established. The cutting was completed between January 9th and 12th, 1996

The geophysical program consisted of completing an HLEM survey on the new lines and a detailed total field magnetic survey being completed on the entire grid from lines 12800ME to 13400ME and between 10400MN to 9600MN. In effect, 7.7 kilometers of magnetics were done and 3.5 kilometers of HLEM were done. The survey was completed between January 17th and 18th, 1996.

SURVEY PROCEDURE

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 following parameters were kept constant throughout the survey.

Linespacing..... 100 meters
Station spacing..... 20 meters
Reading interval..... 10 meters
Diurnal monitor..... base station recorder
Record interval..... 30 seconds
Reference field..... 57500 gammas
Datum subtract..... 56900 gammas
Unit accuracy..... +/- 0.1 gamma
Parameters measured..... Earth's total magnetic field

The collected, corrected and levelled data was then plotted on to a base map at a scale of 1:5000 and contoured at 10 gamma intervals where possible.

A copy of this contoured mag map is included in the back pocket 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.

The following parameters were kept constant throughout the survey.

Linespacing.....	200 meters
Station spacing.....	20 meters
Reading interval.....	20 meters
Coil Seperation.....	150 meters
Theoretical search depth.	75-85 meters
Frequencies recorder.....	1777hz and 444hz
Parameters measured.....	inphase and quadrature components of the secondary field.

The collected data was plotted directly onto a base map at a scale of 1:5000, one map for each frequency, and then profiled at 1cm=+/-20%. Any and all conductor axis were placed directly onto the base map and interpreted for depth and conductivity where possible. A copy of each profiled frequency is included in the back pocket of this report.

SURVEY RESULTS

The HLEM survey outline one moderate to weak conductive zone striking across the grid lines. The zone is interpreted to be at a depth of 60 to 72 meters and with a moderate conductivity of 3 to 8 mhos. The conductor appears to be within the limites of the search capabilities of the HLEM survey.

The magnetics suggest that the zone has a moderate magnetic low association with most of it's strike length. The zone does appear to follow the strike of the underlaing structure as mapped by the magnetics. The magnetics also outlined a good magnetic high unit striking parallel to the EM zone but to the south. This may represent mafic flow material or a pssible contact zone.

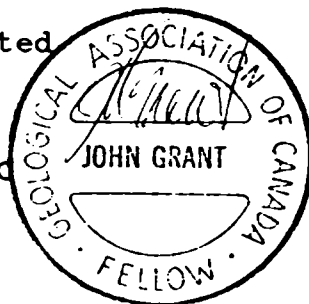
CONCLUSIONS AND RECOMMENDATIONS

The ground program was successful in outlining one weak conductive zone on the grid. The magnetic survey suggest that the zone correlates to a low flanked by two moderate to strong highs. This may suggest the zone relates to a contact zone with associated sulphide stringers.

Should diamond drilling be considered, then the HLEM zone should be followed-up with a deep penetrating survey to better define the zone and to spot a drill hole collar.

Respectfully submitted

J.C. Grant, CET, FGAC
January, 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 subsequently 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.

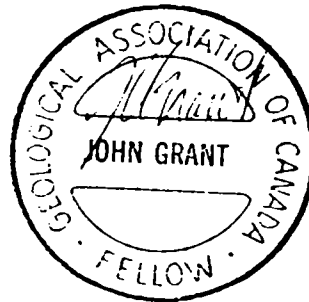
2) I am a Member of the Certified Engineering Technologist Association since 1984.

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.

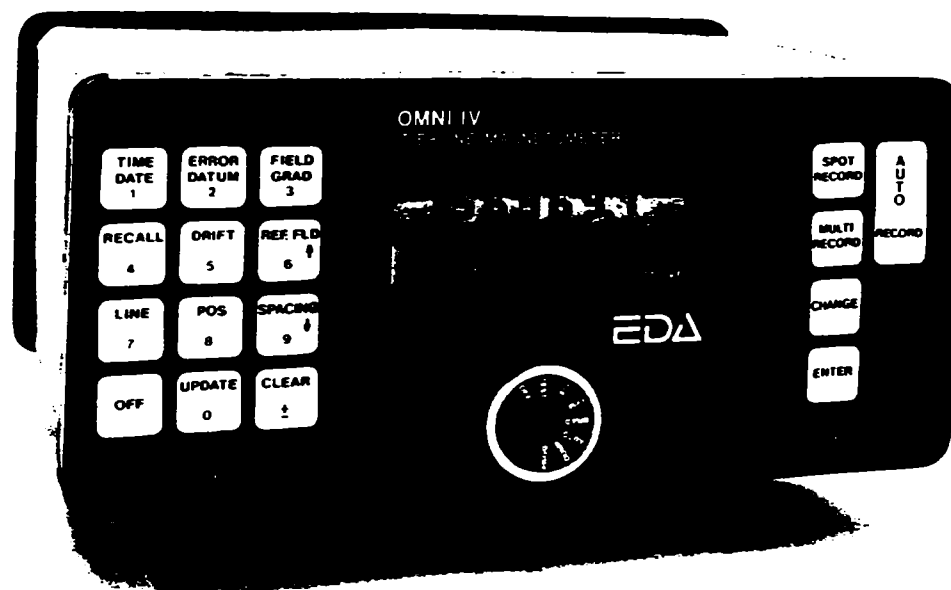
John Charles Grant, CET, FGAC



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

Dipoles	4 5 simultaneous input dipoles.
Input Voltage (Vp) Range	Standard: — 8 volt maximum for each dipole — maximum sum of 12 volts from the second to the sixth dipole. Additional Setting: — attenuation of up to 40 volts on the first dipole.
Input Voltage Protection	Up to 1000 volts.
Vp Resolution	1 microvolt.
Vp Accuracy	0.3% typical; maximum 1% over temperature range.
Chargeability Resolution	1 millivolt/volt for Vp greater than 10 millivolts. 0.1 millivolt/volt for Vp greater than 100 millivolts.
Chargeability Accuracy	0.6% typical; maximum 2% for Vp greater than 10 millivolts over temperature range.
Automatic SP Compensation	± 1 volt with linear drift correction up to 1 millivolt/second.
Input Impedance	10 megohm.
Sample Rate	10 milliseconds.
Automatic Stacking	1 to 999 cycles.
Synchronization	Minimum primary voltage level of 40 microvolts.
Rejection Filters	50 and 60 Hz power line rejection greater than 100 dB.
Grounding Resistance Check	0.1 to 128 kilo-ohms.
Compatible Transmitters	Any time domain waveform transmitter with a pulse duration of 1, 2, 4 or 8 seconds and a crystal timing stability of 100 ppm.
Programmable Parameters	Geometric parameters, time parameter, intensity of current, type of array, line and station number, dipole length, window width and delay time (mode 2).
Display	Two-line, 40-character alphanumeric liquid crystal display protected by an internal heater for low temperature conditions.
Memory Capacity	1800 sets of readings.
RS-232C Serial I/O Interface	300 to 19,200 baud rate; 7 or 8 data bits; 1 or 2 stop bits; odd, even, no parity.
Console Power Supply	Six - 1.5V "D" cell alkaline batteries with auto power save feature; 20 hours of operation at 20°C.
Operating Environmental Range	-40°C to +60°C; 0 to 100% relative humidity; weatherproof.
Weight and Dimensions	8.5 kg. (with batteries), 300 x 200 x 240 mm.
Standard System Complement	Instrument console with carrying strap, batteries, data transfer cable and operations manual.
Displayed Parameters	Primary voltage, partial and total decimalized chargeabilities, running and cumulative average of total chargeabilities (in fixed modes), standard deviation of primary voltage and total chargeability, self potential, number of cycles, dipole being measured and contact resistance.
Available Options	Stainless steel transmitting electrodes, copper sulphate receiving electrodes, alligator clips, bridge leads, multi dipole wire cable, wire spools and software programs.

EDA Instruments Inc.
4 Thorncliffe Park Drive
Toronto, Ontario
Canada M4H 1H1
Telex 06 23222 EDA TOR
Cable EDAINSTRMTS TORONTO
Telephone (416) 425 7800
Fax (416) 425 8135

In USA
EDA Instruments Inc.
9200 E. Mineral Avenue
Suite 370
Englewood, Colorado, U.S.A. 80112
Telephone (303) 790 2541
Fax: (303) 790 2902

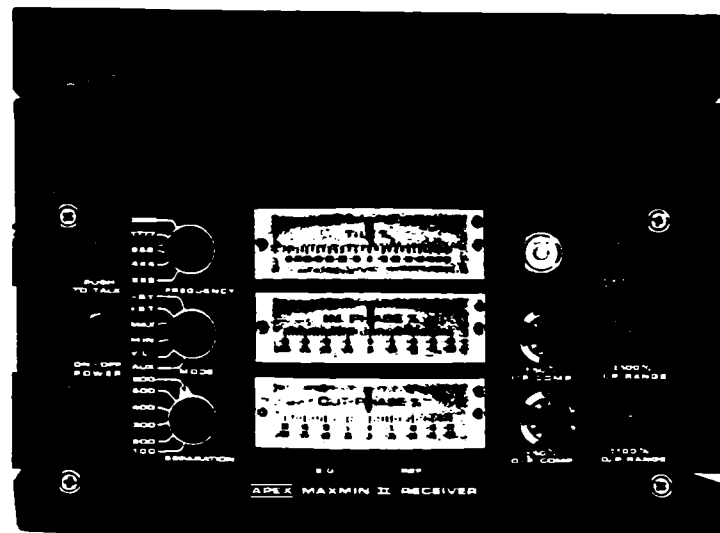
PRINTED IN CANADA

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 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.





SPECIFICATIONS :

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

Modes of Operation: MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.

MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.

V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

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

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

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

Scale Ranges: In-Phase: $\pm 20\%$, $\pm 100\%$ by push-button switch.
Quadrature: $\pm 20\%$, $\pm 100\%$ by push-button switch.
Tilt: $\pm 75\%$ slope.
Null (V.L.): Sensitivity adjustable by separation switch.

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

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

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

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

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

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

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

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

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

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

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

Specifications subject to change without notification

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

Phone: (416) 495-1612

Cables: APEXPARA TORONTO

Telex: 06-966773 NORDVIK TOR



42A07NE0015 2 16532 CURRIE

030

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
CURRIE-BOWMAN OPTION
GRID C, FILL-IN, CURRIE TOWNSHIP
LARDER LAKE MINING DIVISION
NORTHEASTERN ONTARIO

2.16532

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



INTRODUCTION

The services of Exsics Exploration Limited were retained by Falconbridge Limited to complete several small fill-in grids on a larger grid which had been cut on the Currie-Bowman Option during the summer of 1995. The original grid consisted of 200 meter spaced lines which covered the whole option. This initial grid was then covered by a total field magnetic survey and an HLEM survey. The results of this first program prompted Falconbridge to cut several lines between the existing grid lines to better define weak HLEM anomalies. These new grids were completed during the months of January and February, 1996 and are called Grids A,B,C and D.

Each of these new lines were then followed-up with an HLEM survey as well as a total field magnetic survey which was tied into the existing surveys. Several lines were also read with the Crone PEM, moving coil system for a better depth penetration in the event the fill in grid coverage was not seeing deep enough.

This report will deal with the results of this new 1996 fill in program on Grid C.

PROPERTY LOCATION AND ACCESS

Grid C of the fill-in, 1996, program is located in the central section of Currie Township, immediately west of Watabeag Creek and south of Grassy Lake. More specifically it generally covers the central portion of Lot 6, Concession III of the Township of Currie and spills over into a portion of Lot 5. The entire grid is situated approximately 6 to 7 kilometers southeast of the Village of Shillington. Shillington is situated on Highway 101, approximately 45 kilometers east of the City of Timmins, Ontario. Currie Township is part of the Larder Lake Mining Division. Figures 1 and 2.

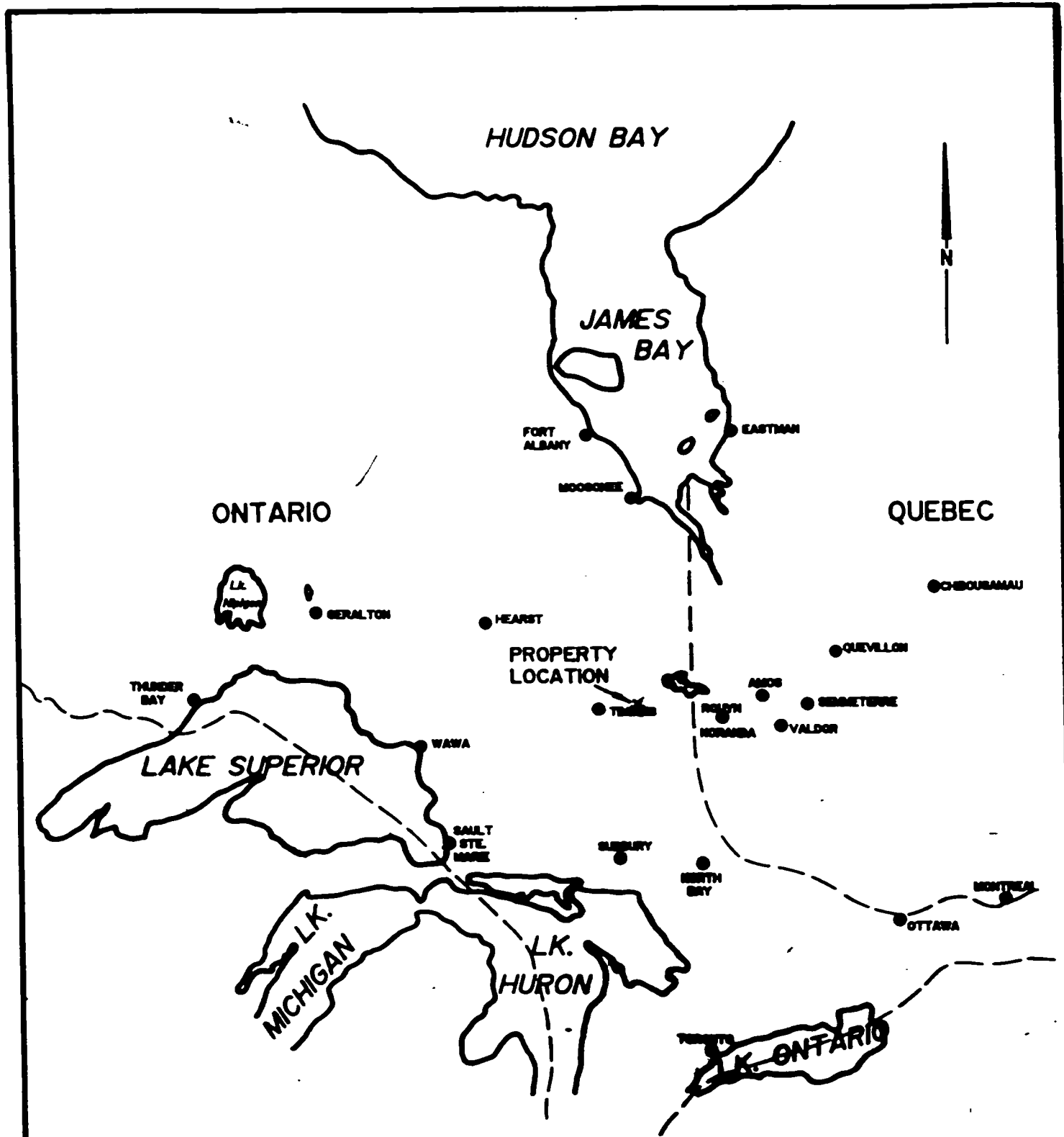
Access to the grid was ideal during the survey period. There is a good all weather, gravel road running south along the boundary line between lots 4 and 5 of Currie which comes to within 1000 meters of the north boundary of the grid and tieline 10400MN. A good trail running south along line 15600ME allows skidoo access to the eastern boundary of the grid. Travelling time from Timmins to the site is approximately 1.5 hours.


CLAIM GROUP

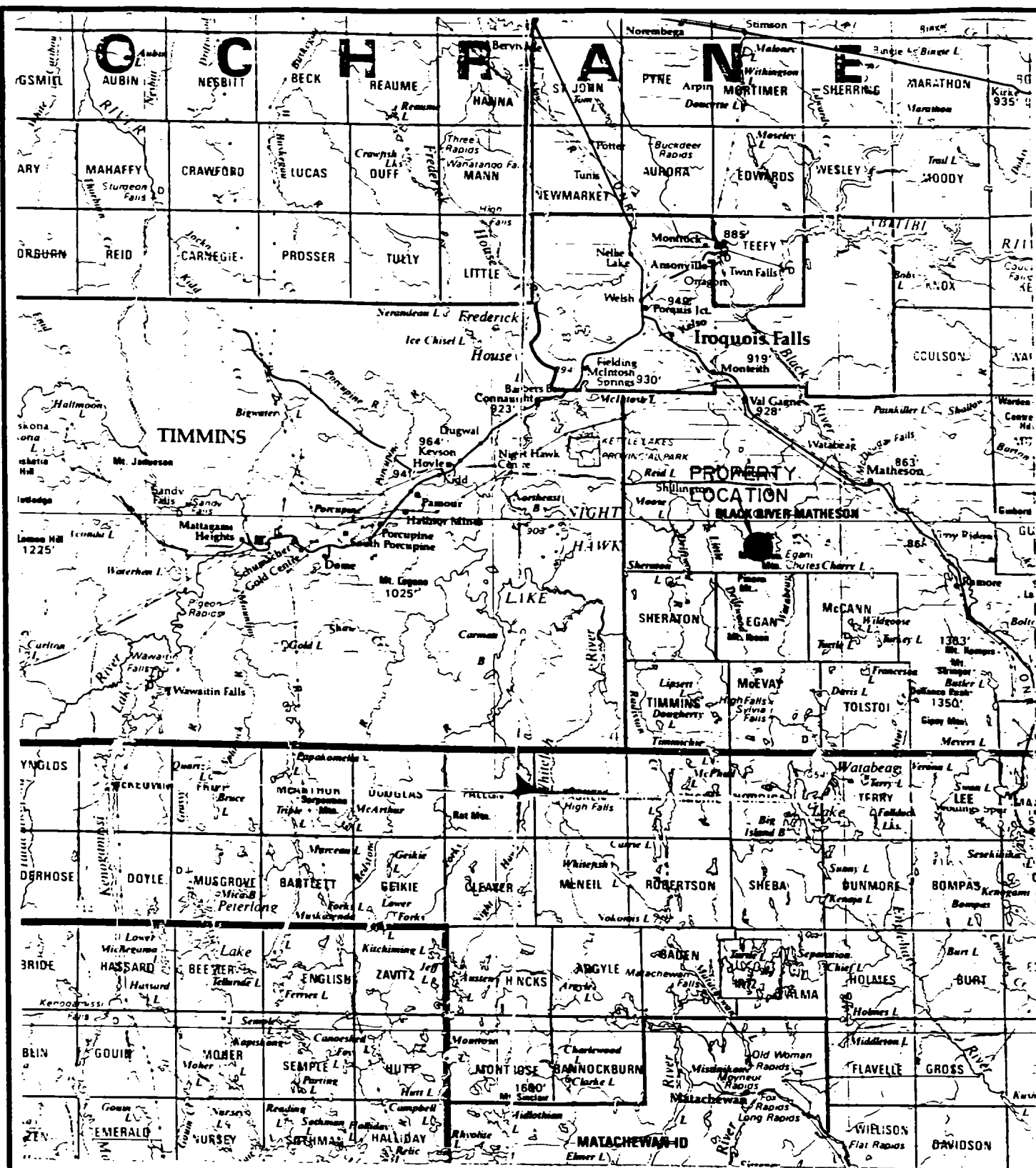
The claim numbers which were partially covered by the fill-in program are as follows:

L-866721, L-866722, L-866723, L-866724, L-1201084, L-1201418

Refer to figure 3, copied from the MNDM plan map of Currie Twp.



			EXSICS EXPLORATION LTD. P.O. Box 928, P.O. 201 Suite 12, Ballinger Bldg, Toronto Ont. Telephone: 753-292-4281		
			CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE - BOWMAN OPTION			TITLE: CURRIE TOWNSHIP PN 8262		
LOCATION MAP			Fig. 1		
Date: Jan. 1996		Scale: 1"=25miles		MNDM Plan#:	
Drawn: P. Gauthier		Interp: J.C. Grant		Job No. E-149	

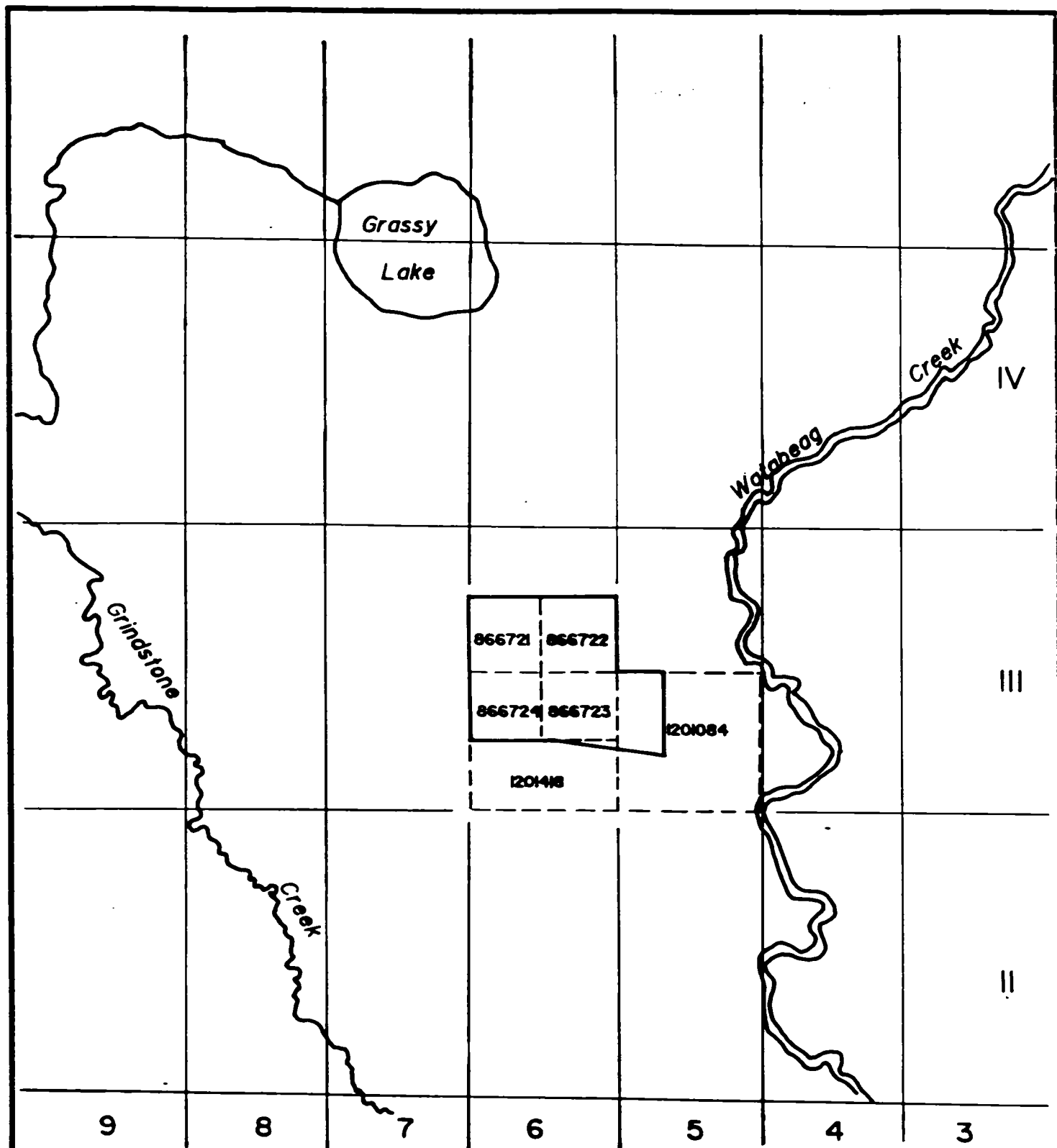


EXSICS EXPLORATION LTD.

P.O. Box 1000, P4M-7X1
 Suite 13, Mallinger Bldg, Timmins Ont.
 Telephone: 705-267-4151

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: CURRIE - BOWMAN OPTION
TITLE: CURRIE TOWNSHIP PN 8262
PROPERTY LOCATION Fig. 2

Date: Jan. 1996	Scale: 1:600,000	MNDM Plan#: 22-6
Drawn:	Interp: J.C. Grant	Job No. E-149



EXSIS EXPLORATION LTD.

P.O. Box 1000, P.M.-701
 Suite 12, Mulligan Bldg, Timmins Ont.
 Telephone: 705-267-4551

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TWP GRID C PN 8262

CLAIM SKETCH

Fig. 3

Date: Feb. 1996

Scale: 1"=1/2mile

MNDM Plan#:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-149

PERSONNEL

The field crew directly responsible for cutting and surveying the grid were as follows.

John derWweduwen.....	South Porcupine
Bruce Pigeon.....	South Porcupine
Raymond Collin.....	Timmins, Ontario
Roly Collins.....	Timmins, Ontario
Norm Collins.....	Timmins, Ontario
John Grant.....	Timmins, Ontario

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

GROUND PROGRAM

This program consisted of cutting lines between the existing grid to better define weak HLEM conductors. The new lines to be cut were 15100ME, 15300ME, 15500ME, and 15700ME from 10400MN to 9600MN. In all, a total of 4.5 kilometers of new grid were established. The cutting was completed between February 9th and 16th, 1996

The geophysical program consisted of completing an HLEM survey on the new lines and a detailed total field magnetic survey being completed on the entire grid from lines 15000ME to 15800ME and between 10400MN to 9600MN. In effect, 8.6 kilometers of magnetics were done and 3.1 kilometers of HLEM were done. The survey was completed between February 17th and 18th, 1996.

The moving coil PEM survey was completed on lines 15300, 15400 and 15500ME.

SURVEY PROCEDURE

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 following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	20 meters
Reading interval.....	10 meters
Diurnal monitor.....	base station recorder
Record interval.....	30 seconds
Reference field.....	57500 gammas
Datum subtract.....	56900 gammas
Unit accuracy.....	+/- 0.1 gamma
Parameters measured.....	Earth's total magnetic field

The collected, corrected and levelled data was then plotted on to a base map at a scale of 1:5000 and contoured at 10 gamma intervals where possible.

A copy of this contoured mag map is included in the back pocket 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.

The following parameters were kept constant throughout the survey.

Linespacing.....	200 meters
Station spacing.....	20 meters
Reading interval.....	20 meters
Coil Seperation.....	150 meters
Theoretical search depth.	75-85 meters
Frequencies recorder.....	1777hz and 444hz
Parameters measured.....	inphase and quadrature components of the secondary field.

The collected data was plotted directly onto a base map at a scale of 1:5000, one map for each frequency, and then profiled at 1cm= \pm 20%. Any and all conductor axis were placed directly onto the base map and interpreted for depth and conductivity where possible. A copy of each profiled frequency is included in the back pocket of this report.

The PEM survey was completed using the Crone PEM system. Specifications for the unit can be found as Appendix C of this report. The following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	20 meters
Reading interval.....	20, 40 meters
Coil seperation.....	180-200 meters
Theoretical search depth.	120-160 meters
Parameters measured.....	8 samples of the secondary field
Unit accuracy.....	\pm 0.5 percent
Time base	10ms
Syncranization.....	Radio link

SURVEY RESULTS

The HLEM survey was not successful in locating our outlining any definite bedrock conductor. A weak questionable zone was noted on line 15100ME at 9969MN which appears to continue off of the grid to the west. Further work would be required to better define the source of the zone.

The magnetic survey suggest the weak zone is on the south flank of a broad weak magnetic high. The survey also outlined a north-south structure generally paralleling line 15400ME which may suggest there is a dike like feature crosscutting the grid. The magnetic high unit covering the south portion of the grid may relate to the metavolcanics and felsic contact.

The PEM survey did not seem to outline any additional conductive zones on the grid. A weak questionable and deep zone was noted on line 15300ME at 9940MN with a conductivity of 3 mhos. This may relate to the western edge of the cross structure or may relate to the eastern extension of the weak HLEM zone noted on line 15100ME. Further testing may be required to better define the zone.

CONCLUSIONS AND RECOMMENDATIONS

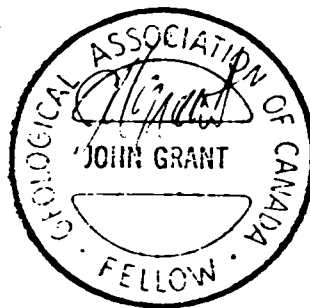
The ground surveys were not successful in outlining any good bedrock conductors. The two zones outlined by the HLEM and PEM surveys would require further follow-up work to better define their sources.

The magnetics did outline the suspected geological strike of the grid as well as outline a good north-south cross structure which may be dike related.

Should a follow-up program be contemplated then a Deep penetrating type survey should be considered and be concentrated on the weak conductive zones noted.

Respectfully submitted

J.C. Grant, CET, FGAC
January, 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 subsequently 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)
Processor	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
Counting 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

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

Printed in Canada

APPENDIX B

ARDEX

MAXMIN II
PORTABLE EM

Five frequencies: 222, 444, 888, 1777 and 3555 Hz.

Maximum coupled (horizontal-loop) operation with reference cable.

Minimum coupled operation with reference cable.

Vertical-loop operation without reference cable.

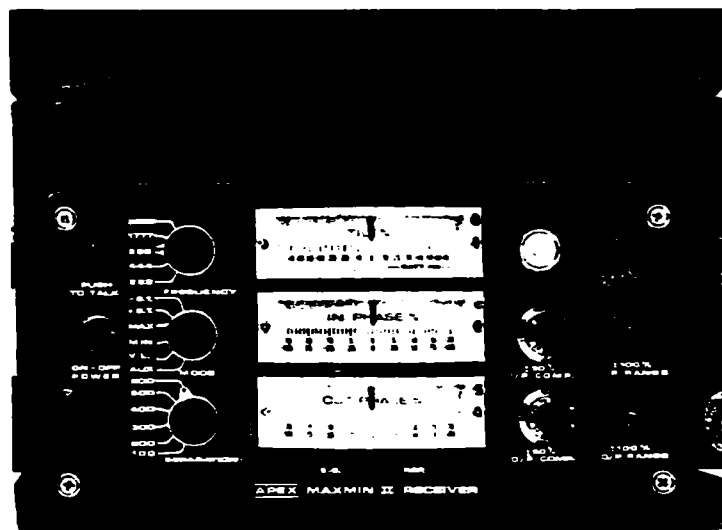
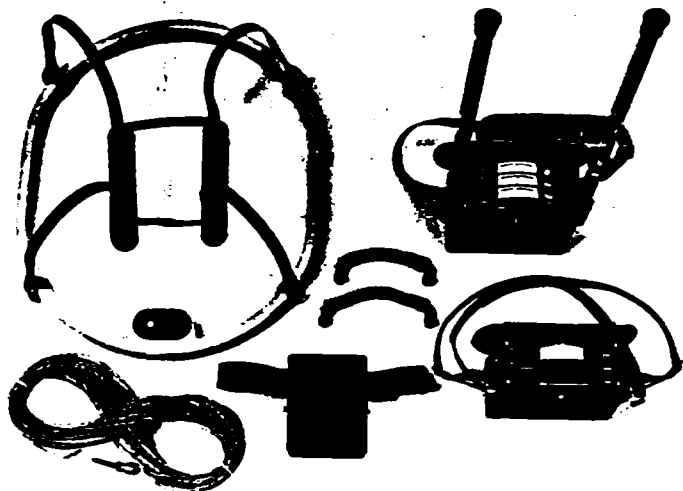
Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.

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

Built-in voice communication circuitry with cable.

Tilt meters to control coil orientation.





TECHNICAL SPECIFICATIONS

Frequencies: 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.

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

Displayed Fields:

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

Readouts:

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

Scale Ranges:

In-Phase: $\pm 20\%$, $\pm 100\%$ by push-button switch.
 Quadrature: $\pm 20\%$, $\pm 100\%$ by push-button switch.
 Tilt: $\pm 75\%$ slope.
 Null (V.L.): Sensitivity adjustable by separation switch.

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

$\pm 0.25\%$ to $\pm 1\%$ normally, depending on conditions, frequencies and coil separation used.

Field Strengths:

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

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

12V 6Ah 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.

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

Operating Temperature: -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$).

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipment 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 NOROVIK TOR

APPENDIX C

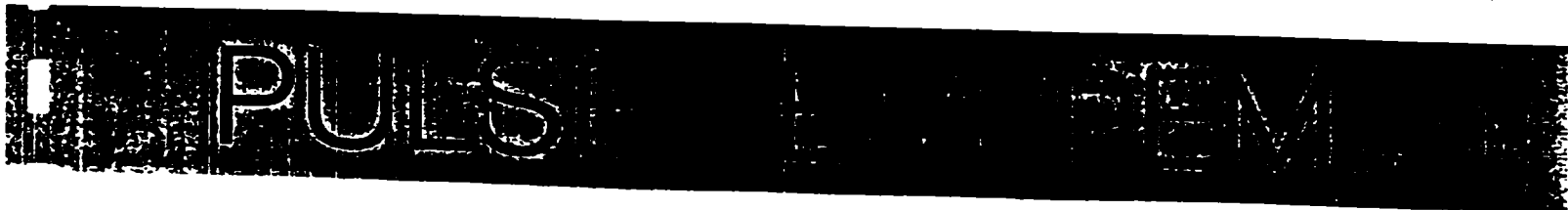
CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA, L5C 1V8

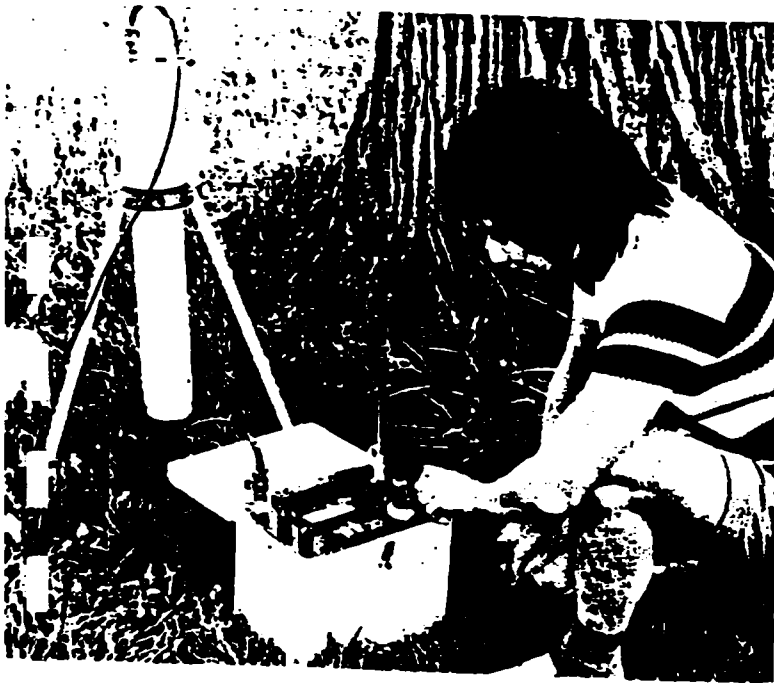
Phone: (416) 270-0096
TELEX: 06-961260

AUSTRALIA OFFICE:
244 Newbridge Road,
MOOREBANK, N.S.W. 2170.

Phone: (02) 602-0937
TELEX: 71-22922



RECEIVER

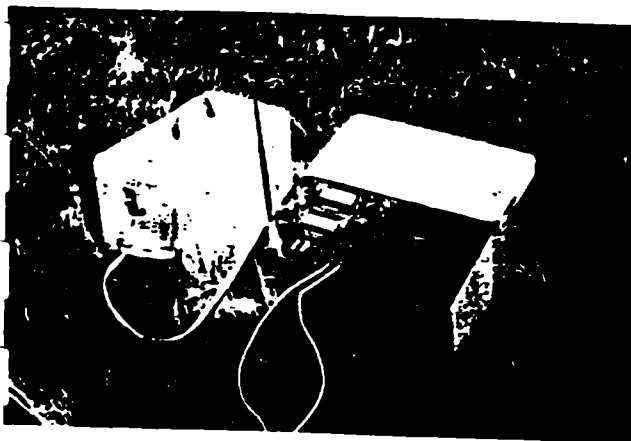


FLEXIBILITY:

The equipment is not restricted to a fixed method. Since it is a Time Domain Method there are no rigid geometrical restrictions as to coil configurations. The transmit coil energizes — as small or large horizontal loops or a vertical loop. The receive coil measures — all three components of the secondary fields if required. The wide frequency spectrum discriminates between zones of varying conductivity. With minor modifications the equipment has borehole capabilities to a depth of 300 meters.

INTERPRETATION:

The equipment is capable of measuring all 3 components of the secondary fields. This information can be translated into accurate estimates of the shape and position of the conductors. The method of direct plotting of induced current paths at different frequencies is a very effective interpretative method that can be performed in the field. A complete study of borehole response curves is available, (D. Wood's Thesis).



TRANSMITTER

EQUIPMENT SALES, RENTAL & CONTRACT SERVICES AVAILABLE

PEM SPECIFICATIONS

TRANSMITTER:

- Transmit Control: 37x25x21cm, Weight: 11kg (23 lbs)
- Output Voltage: 24 volt, maximum output current 20 amps
- Output Waveform: Switch selectable timebase of "10ms" or "20ms" with "10ms" timebase current on 10.8ms, ramp shut off for 1.4ms, current off 9.4ms — reversing continuous waveform. With "20ms" timebase current on and off times are doubled.
- Input Power from 2 of 12 volt rechargeable batteries. Standard equipment uses 2 of 12 volt, 20 amp hour Globe gel cells in an aluminum case that can be mounted on a packframe. Weight 18.1 kg (40 lbs)
- Optional Equipment — lightweight powerpack 4 of 6 volt, 8 amp hour rechargeable gel cells, Weight — 9 kg (20 lbs). Motor generator for continuous operation "DEEPEM" or Borehole EM, packframe mounted 3 HP, 4 cycle gasoline engine and 24 volt generator. Total weight 18 kg (40 lbs).
- Timing controls by radio and /or cable to receiver. Cable standard length — 100M.
- Control box dimensions: 20.5cm x 25.5cm x 36.5cm. Weight 10 kg (22 lbs).
- Transmit Loop: Variable in size and number of turns from standard 6 and 9 meter diameter aluminum loops to breakable loop 9 meters in diameter and single turn 100 meter square (or 400x400 feet square) for DEEPEM and Borehole capabilities. All loops have approximately 1 Ohm resistance and a weight of 15 kg (30 lbs).
- Battery Chargers: 2 of modified Gel cell chargers 14.4 volts, initial charge current 3 to 4 amps, 110 volts or optional 220 volt supply — 50-60Hz.
- Vertical Loop Mast: Optional extra — 5 pieces tubular aluminum 9 meters high. Weight 6 kg.
- High powered transmitters (24 volts, 80 amps) are available upon request.

RECEIVER:

Receiver Coil: Ferrite core antenna with preamplifier, mounted on a tripod. Dimensions: Height 63 cm, diameter 11 cm, weight 7 kg (16 lbs). Preamplifier power supply 2 of 9 volt batteries, vertical and horizontal levels are mounted on the coil.

Receiver Measuring Unit. Dimensions: 28 cm x 27 cm x 18 cm; weight 7 kg (16 lbs). Measurements on "10ms" time base. — Primary pulse: -100 to 0 μ sec., mid point — 50 μ s, position variable by means of a 10 turn pot — used to set zero time position at peak primary pulse. Primary pulse sample is usually set at "1000" by means of variable gain pot.

Eight samples of secondary field:

- (1) 100 to 200 μ s middle point 150 μ s
- (2) 200 to 400 μ s middle point 300 μ s
- (3) 400 to 700 μ s middle point 550 μ s
- (4) 700 to 1100 μ s middle point 900 μ s
- (5) 1100 to 1800 μ s middle point 1450 μ s
- (6) 1800 to 3000 μ s middle point 2400 μ s
- (7) 3000 to 5000 μ s middle point 4000 μ s
- (8) 5000 to 7800 μ s middle point 6400 μ s

Sample times can be doubled by switching to "20ms" time base. Receiver voltages are integrated over sample width and automatically stored and averaged over a 11 second period. Samples can also be read continuously.

SHIPPING: All instruments packed in foam lined wood boxes.

- 1) Box Receiver unit
- 2) Box Transmitter unit
- 3) Box Battery unit
- 1) Box Receive Coil
- 1) Box Transmit Coil, packframe, battery, chargers, timing cable

Shipping Weight

14.5 kb (32 lbs)
20 kg (45 lbs)
28 kg (61 lbs)
16 kg (36 lbs)
36 kg (80 lbs)

Total approximate shipping weight:

114.5 kg (254 lbs)



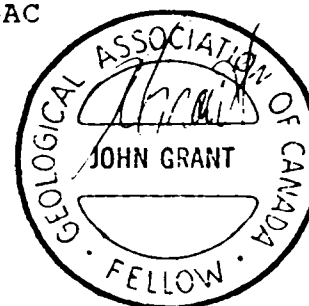
42A07NE0015 2.16532 CURRIE

040

GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
CURRIE-BOWMAN OPTION
GRID D, FILL-IN, CURRIE TOWNSHIP
LARDER LAKE MINING DIVISION
NORTHEASTERN ONTARIO

2.16532

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





42A07NE0015 2.16532 CURRIE

040C

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INTRODUCTION

The services of Exsics Exploration Limited were retained by Falconbridge Limited to complete several small fill-in grids on a larger grid which had been cut on the Currie-Bowman Option during the summer of 1995. The original grid consisted of 200 meter spaced lines which covered the whole option. This initial grid was then covered by a total field magnetic survey and an HLEM survey. The results of this first program prompted Falconbridge to cut several lines between the existing grid lines to better define weak HLEM anomalies. These new grids were completed during the months of January and February, 1996 and are called Grids A,B,C and D.

Each of these new lines were then followed-up with an HLEM survey as well as a total field magnetic survey which was tied into the existing surveys. Several lines were also read with the Crone PEM, moving coil system for a better depth penetration in the event the fill in grid coverage was not seeing deep enough.

This report will deal with the results of this new 1996 fill in program on Grid D.

PROPERTY LOCATION AND ACCESS

Grid D of the fill-in, 1996, program is located in the central east section of Currie Township, immediately east of Watabeag Creek. More specifically it generally covers the south half of Lot 3, Concession III of the Township of Currie and spills over into a portion of Lot 4. The entire grid is situated approximately 6 to 7 kilometers southeast of the Village of Shillington. Shillington is situated on Highway 101, approximately 45 kilometers east of the City of Timmins, Ontario. Currie Township is part of the Larder Lake Mining Division. Figures 1 and 2.

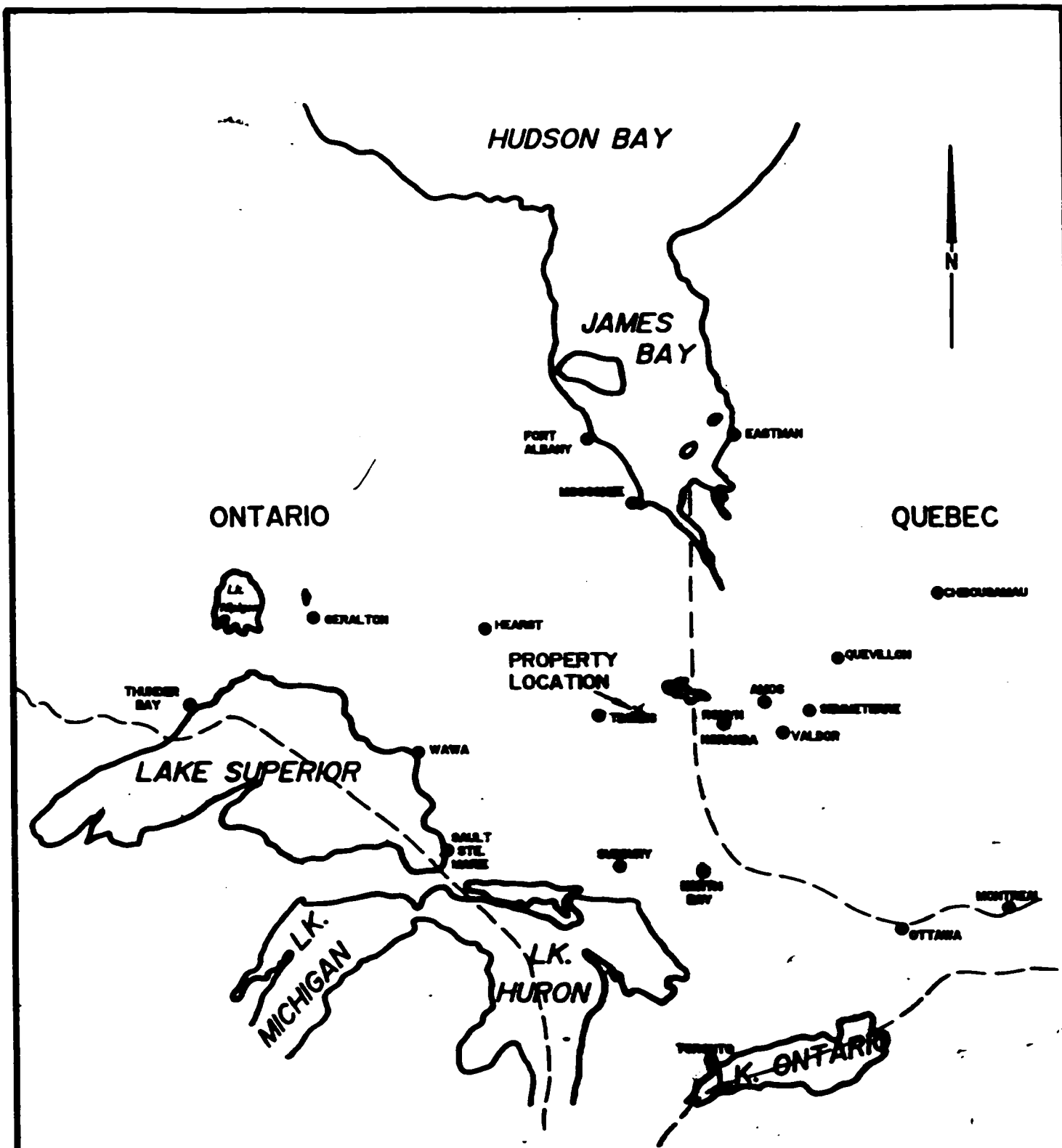
Access to the grid was ideal during the survey period. There is a good all weather, gravel road running south along the township line between Bowman and Currie which intersects the concession line between concessions III and IV. Current logging operations in the area has opened up a road along this concession line for approximately 1.0 kilometers. A short skidoo ride along this line from the end of the plowed road to a second road running south will allow access to the southwest corner of the survey grid. Travelling time from Timmins to the site is approximately 2.0 hours.


CLAIM GROUP

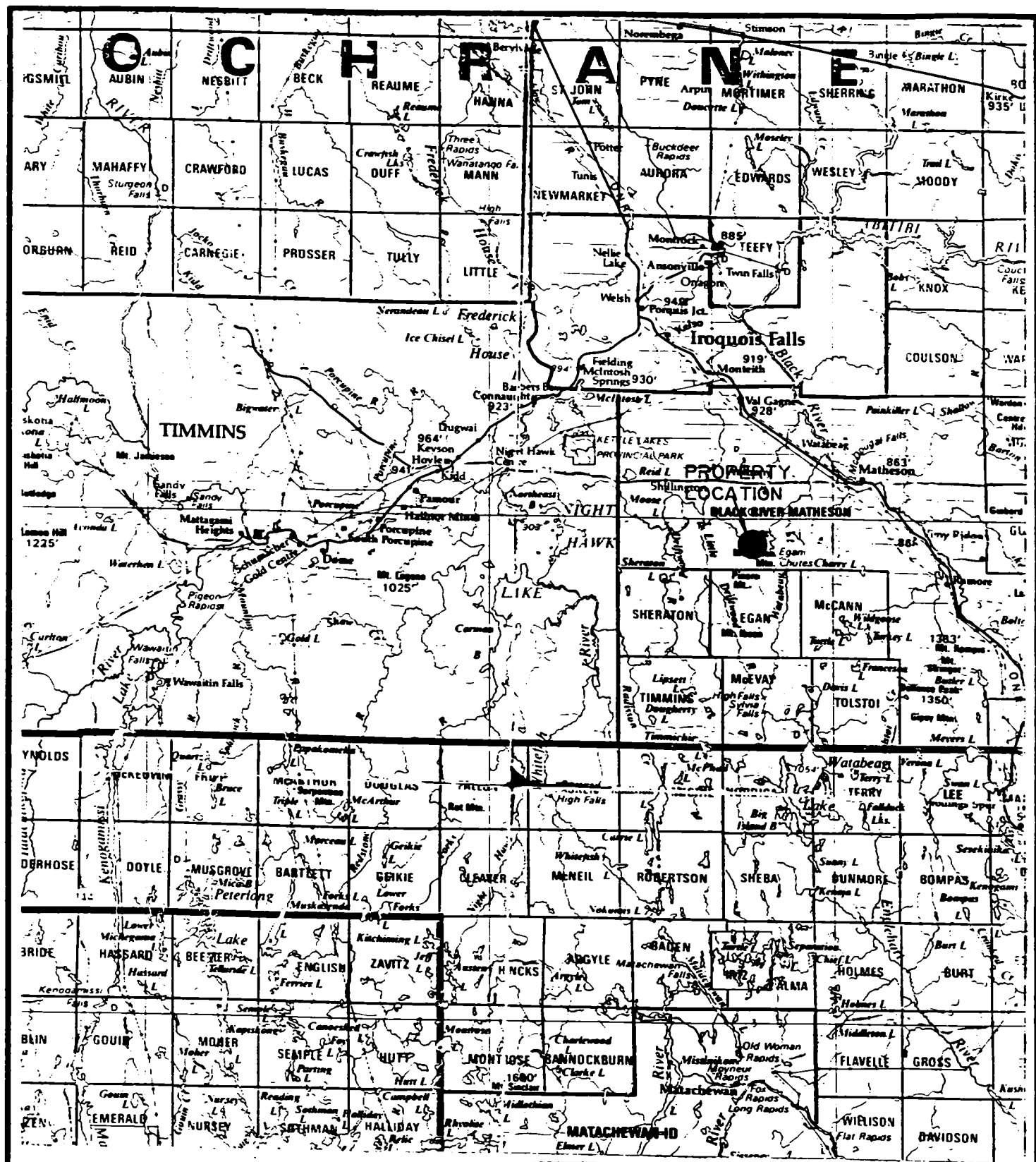
The claim numbers which were partially covered by the fill-in program are as follows:

L-1201083 8 units

Refer to figure 3, copied from the MNDM plan map of Currie Twp.



		
EXSICS EXPLORATION LTD. P.O. Box 1000, P.M.S. 703 Suite 10, Milligan Bldg., Toronto Ont. Telephone: 765-207-6200		
CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE - BOWMAN OPTION		
TITLE: CURRIE TOWNSHIP PN 8262 LOCATION MAP		
Fig. 1		
Date: Jan. 1996	Scale: 1"=25miles	MNDM Plan#:
Drawn: P. Gauthier	Intern: J.C. Grant	Job No: E-149



EXSICS EXPLORATION LTD.

P.O. Box 1000, PLM-7X1
 Suite 13, Hallinger Bldg, Timmins Ont.
 Telephone: 705-267-4151

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TOWNSHIP PN 8262

PROPERTY LOCATION

Fig. 2

Date: Jan. 1996

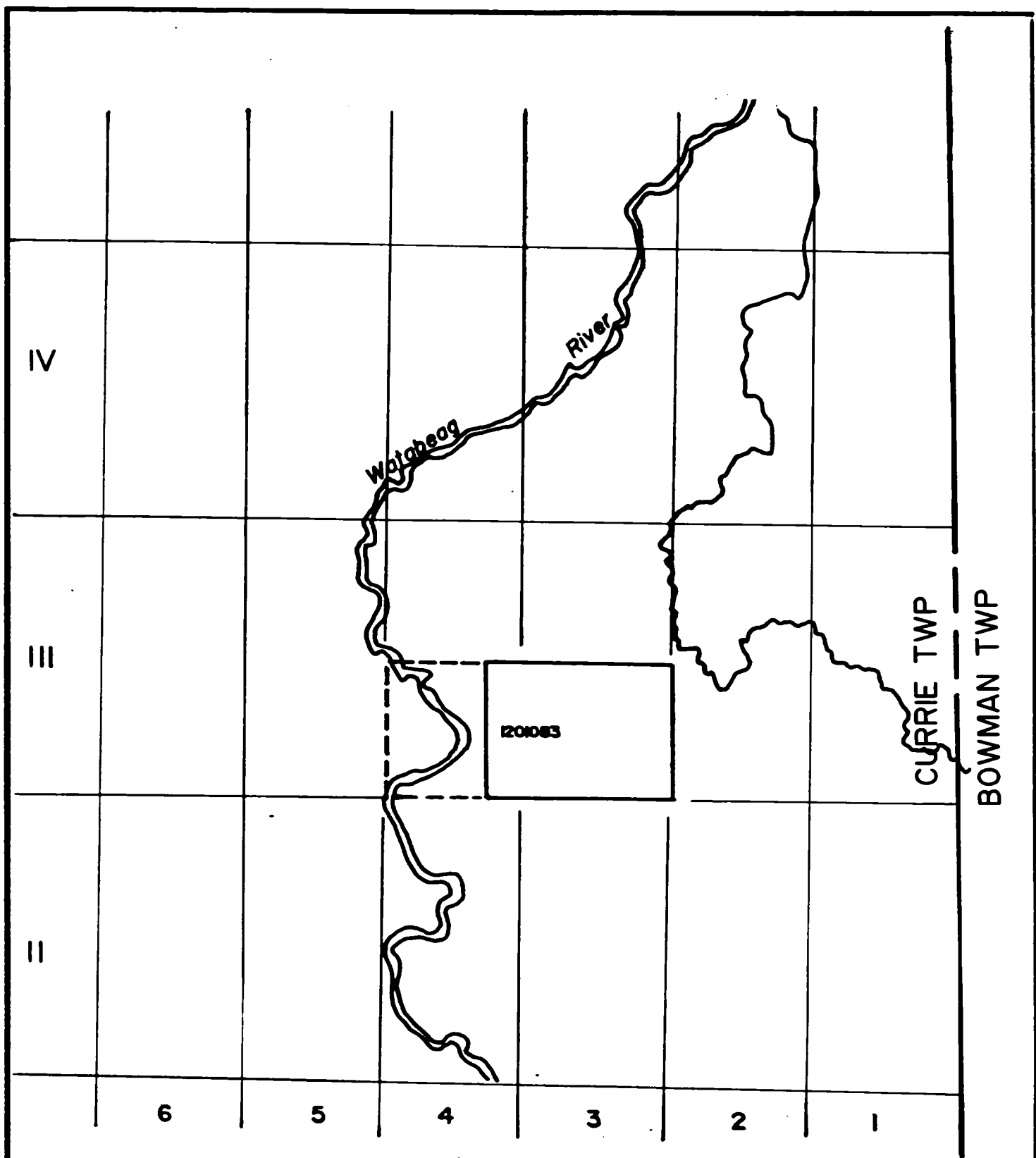
Scale: 1:600,000

MNDM Plan #: 22-6

Drawn:

Interp: J.C. Grant

Job No E-149



EXSICS EXPLORATION LTD.

P.O. Box 1888, P4B-7X1
 Suite 12, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-451

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CURRIE - BOWMAN OPTION

TITLE: CURRIE TWP GRID D PN 8262

CLAIM SKETCH

Fig. 3

Date: FEB. 1996

Scale: 1"=1/2mile

MNDM Plan#:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-149

PERSONNEL

The field crew directly responsible for cutting and surveying the grid were as follows.

John derWweduwen.....	South Porcupine
Bruce Pigeon.....	South Porcupine
Raymond Collin.....	Timmins, Ontario
Roly Collins.....	Timmins, Ontario
Norm Collins.....	Timmins, Ontario
John Grant.....	Timmins, Ontario

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

GROUND PROGRAM

This program consisted of cutting lines between the existing grid to better define weak HLEM conductors. The new lines to be cut were 17100ME, 17300ME, 17500ME, and 17700ME from 10000MN to 9200MN. In all, a total of 3.2 kilometers of new grid were established. The cutting was completed between February 6th and 09th, 1996

The geophysical program consisted of completing an HLEM survey on the new lines and a detailed total field magnetic survey being completed on the entire grid from lines 17000ME to 17800ME and between 10000MN to 9200MN. In effect, 8.8 kilometers of magnetics were done and 3.2 kilometers of HLEM were done. These surveys were completed between February 09th and 10th, 1996.

The moving coil PEM survey was completed on lines 17200, 17300 17600 and 17700ME.

SURVEY PROCEDURE

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 following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	20 meters
Reading interval.....	10 meters
Diurnal monitor.....	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 on to a base map at a scale of 1:5000 and contoured at 10 gamma intervals where possible.

A copy of this contoured mag map is included in the back pocket 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.

The following parameters were kept constant throughout the survey.

Linespacing.....	200 meters
Station spacing.....	20 meters
Reading interval.....	20 meters
Coil Seperation.....	150 meters
Theoretical search depth.	75-85 meters
Frequencies recorder.....	1777hz and 444hz
Parameters measured.....	inphase and quadrature components of the secondary field.

The collected data was plotted directly onto a base map at a scale of 1:5000, one map for each frequency, and then profiled at lcm= \pm 20%. Any and all conductor axis were placed directly onto the base map and interpreted for depth and conductivity where possible. A copy of each profiled frequency is included in the back pocket of this report.

The PEM survey was completed using the Crone PEM system. Specifications for the unit can be found as Appendix C of this report. The following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	20 meters
Reading inteval.....	20, 40 meters
Coil seperation.....	200 meters
Theoretical search depth.	160 meters
Parameters measured.....	8 samples of the secondary field
Unit accuracy.....	\pm 0.5 percent
Time base	10ms
Synchronization.....	Radio link

SURVEY RESULTS

The HLEM survey was not successful in locating our outlining any definite bedrock conductor. A weak questionable zone was noted on lines 17100ME, 17300ME and 17500ME at approximately 9780MN and it appears to continue off of the grid to the west. Interpretation of this zone suggests it is shallow at 15 meters and weak with a conductivity of 2 mhos.

The magnetic survey suggest the west portion of the zone is on the south flank of a broad weak magnetic high and that the eastern extension relates to a moderate magnetic low unit. The survey also outlined a north-south structure generally paralleling line 17300ME which may suggest there is a dike like feature crosscutting the grid. The magnetic high units covering the central and south portions of the grid may relate to the metavolcanics and felsic contact.

The PEM survey on lines 17700ME and 17600ME appeared to suggest that there is a weak deep zone situated at 9540 to 9560MN. This zone appears weakly on the bottom channels. The western two lines, 17200ME and 17300ME did not seem to outline any additional conductive zones on the grid. The negative readings between 9700MN and 9600MN may relate to a hill to swamp contact.

CONCLUSIONS AND RECOMMENDATIONS

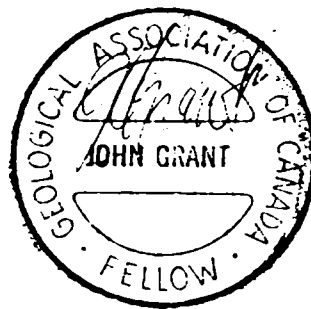
The ground surveys were not successful in outlining any good bedrock conductors. The two zones outlined by the HLEM and PEM surveys would require further follow-up work to better define their sources.

The magnetics did outline the suspected geological strike of the grid as well as outline a good north-south cross structure which may be dike related.

Should a follow-up program be contemplated then a Deep penetrating type survey should be considered and be concentrated on the weak conductive zones noted.

Respectfully submitted

J.C. Grant, CET, FGAC
January, 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 subsequently 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.

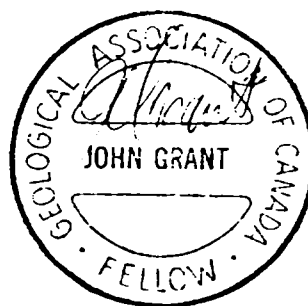
2) I am a Member of the Certified Engineering Technologist Association since 1984.

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	$\pm 15\%$ 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 $+55^{\circ}\text{C}$. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
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)
Cursor	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
Timing Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to $+55^{\circ}\text{C}$; 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

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

Printed in Canada

APPENDIX B

DEK

MAXMIN II
PORTABLE EM

Five frequencies: 222, 444, 888, 1777 and 3555 Hz.

Maximum coupled (horizontal-loop) operation with reference cable.

Minimum coupled operation with reference cable.

Vertical-loop operation without reference cable.

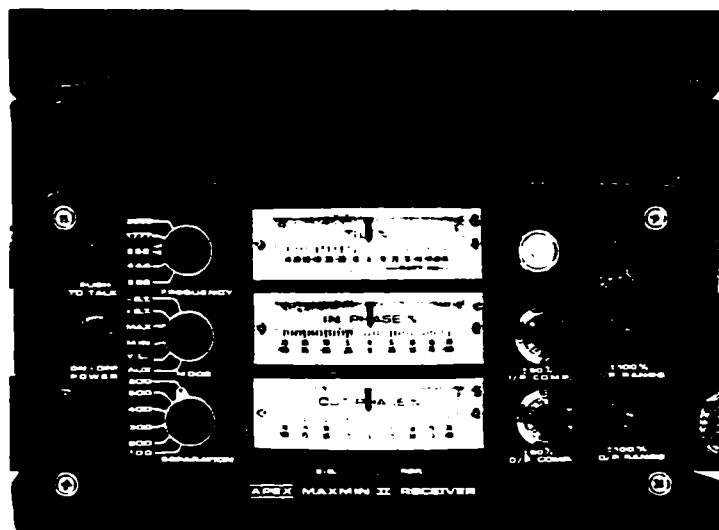
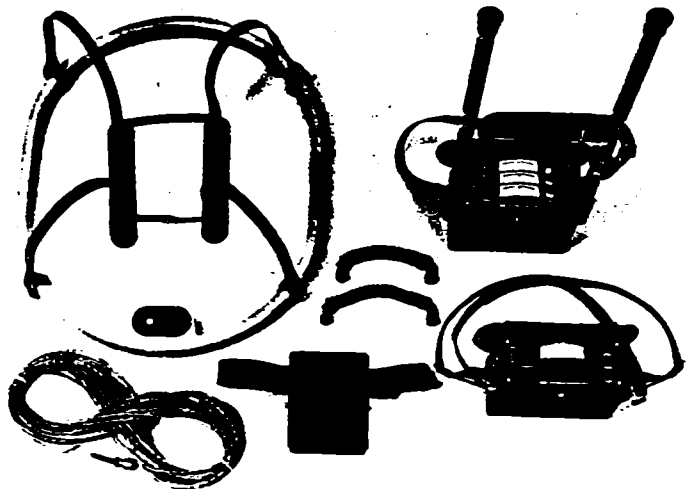
Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.

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

Built-in voice communication circuitry with cable.

Tilt meters to control coil orientation.





FEATURES

Frequencies: 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.

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

Signal Dependence:

- 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 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90mm edgewise meters in V.L. mode.

Scale Range:

In-Phase: $\pm 20\%$, $\pm 100\%$ by push-button switch.
Quadrature: $\pm 20\%$, $\pm 100\%$ by push-button switch.
Tilt: $\pm 75\%$ slope.
Null (V.L.): Sensitivity adjustable by separation switch.

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

Accuracy: $\pm 0.25\%$ to $\pm 1\%$ normally, depending on conditions, frequencies and coil separation used.

Field Strengths:

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

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

Power Source: 12V 6Ah Gel-type rechargeable battery. (Charger supplied).

Reference Cables: 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 warning lights to indicate erroneous readings.

Temperature Range: -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$).

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 NOROVIK TOR

APPENDIX C

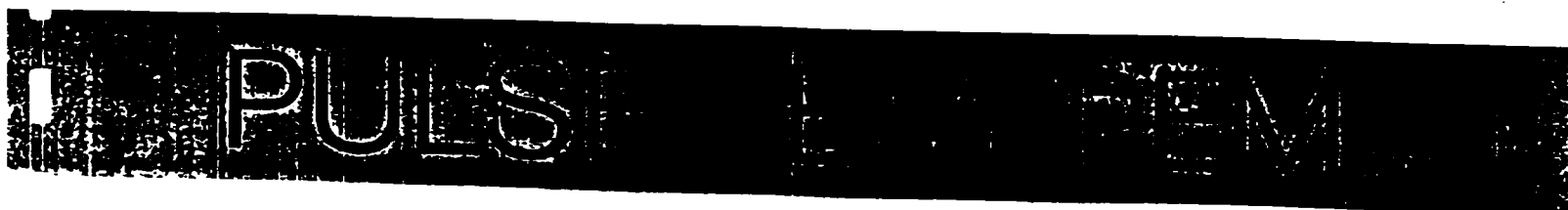
CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA, L5C 1V8

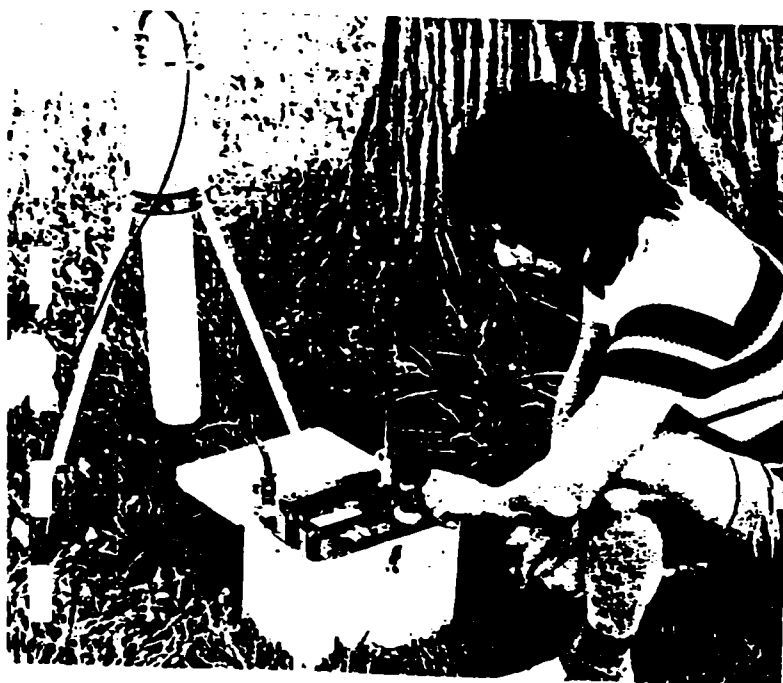
AUSTRALIA OFFICE:
244 Newbridge Road,
MOOREBANK, N.S.W. 2170.

Phone: (416) 270-0096
TELEX: 06-961260

Phone: (02) 602-0937
TELEX: 71-22922



RECEIVER

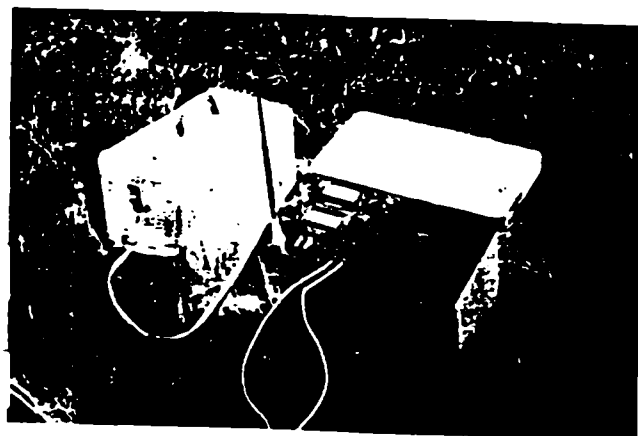


FLEXIBILITY:

The equipment is not restricted to a fixed method. Since it is a Time Domain Method there are no rigid geometrical restrictions as to coil configurations. The transmit coil energizes — as small or large horizontal loops or a vertical loop. The receive coil measures — all three components of the secondary fields if required. The wide frequency spectrum discriminates between zones of varying conductivity. With minor modifications the equipment has borehole capabilities to a depth of 300 meters.

INTERPRETATION:

The equipment is capable of measuring all 3 components of the secondary fields. This information can be translated into accurate estimates of the shape and position of the conductors. The method of direct plotting of induced current paths at different frequencies is a very effective interpretative method that can be performed in the field. A complete study of borehole response curves is available, (D. Wood's Thesis).



TRANSMITTER

EQUIPMENT SALES, RENTAL & CONTRACT SERVICES AVAILABLE

PEM SPECIFICATIONS

TRANSMITTER:

- Transmit Control: 37x25x21cm, Weight: 11kg (23 lbs)
- Output Voltage: 24 volt, maximum output current 20 amps
- Output Waveform: Switch selectable timebase of "10ms" or "20ms" with "10ms" timebase current on 10.8ms, ramp shut off for 1.4ms, current off 9.4ms — reversing continuous waveform. With "20ms" timebase current on and off times are doubled.
- Input Power from 2 of 12 volt rechargeable batteries. Standard equipment uses 2 of 12 volt, 20 amp hour Globe gel cells in an aluminum case that can be mounted on a packframe. Weight 18.1 kg (40 lbs) Optional Equipment — lightweight powerpack 4 of 6 volt, 8 amp hour rechargeable gel cells, Weight — 9 kg (20 lbs). Motor generator for continuous operation "DEEPEM" or Borehole EM, packframe mounted 3 HP, 4 cycle gasoline engine and 24 volt generator. Total weight 18 kg (40 lbs).
- Timing controls by radio and /or cable to receiver. Cable standard length — 100M.
- Control box dimensions: 20.5cm x 25.5cm x 36.5cm. Weight 10 kg (22 lbs).
- Transmit Loop: Variable in size and number of turns from standard 6 and 9 meter diameter aluminum loops to breakable loop 9 meters in diameter and single turn 100 meter square (or 400x400 feet square) for DEEPEM and Borehole capabilities. All loops have approximately 1 Ohm resistance and a weight of 15 kg (30 lbs).
- Battery Chargers: 2 of modified Gel cell chargers 14.4 volts, initial charge current 3 to 4 amps, 110 volts or optional 220 volt supply — 50-60Hz.
- Vertical Loop Mast: Optional extra — 5 pieces tubular aluminum 9 meters high. Weight 6 kg.
- High powered transmitters (24 volts, 80 amps) are available upon request.

RECEIVER:

Receiver Coil: Ferrite core antenna with preamplifier, mounted on a tripod. Dimensions: Height 63 cm, diameter 11 cm, weight 7 kg (16 lbs). Preamplifier power supply 2 of 9 volt batteries, vertical and horizontal levels are mounted on the coil.

Receiver Measuring Unit. Dimensions: 28 cm x 27 cm x 18 cm; weight 7 kg (16 lbs). Measurements on "10ms" time base. — Primary pulse: -100 to 0 μ sec., mid point — 50 μ s, position variable by means of a 10 turn pot — used to set zero time position at peak primary pulse. Primary pulse sample is usually set at "1000" by means of variable gain pot.

Eight samples of secondary field:

- (1) 100 to 200 μ s middle point 150 μ s
- (2) 200 to 400 μ s middle point 300 μ s
- (3) 400 to 700 μ s middle point 550 μ s
- (4) 700 to 1100 μ s middle point 900 μ s
- (5) 1100 to 1800 μ s middle point 1450 μ s
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- (7) 3000 to 5000 μ s middle point 4000 μ s
- (8) 5000 to 7800 μ s middle point 6400 μ s

Sample times can be doubled by switching to "20ms" time base. Receiver voltages are integrated over sample width and automatically stored and averaged over a 11 second period. Samples can also be read continuously.

SHIPPING: All instruments packed in foam lined wood boxes.

- (1) Box Receiver unit
- (2) Box Transmitter unit
- (3) Box Battery unit
- (4) Box Receive Coil
- (5) Box Transmit Coil, packframe, battery, chargers, timing cable

Shipping Weight

14.5	kg (32 lbs)
20	kg (45 lbs)
28	kg (61 lbs)
16	kg (36 lbs)
36	kg (80 lbs)

Total approximate shipping weight:

114.5 kg (254 lbs)



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number DOCUMENT No. 9680-00228

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.16532

- 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 compl. - Technical reports and maps must accompan - A sketch, showing the claims the work is as:



42A07NE0015 2 16532 CURRIE

900

Recorded Holder(s) FALCONBRIDGE LIMITED, Client No. 130679, Address P.O. BOX 1140, 571 MONETA AVE, TIMMINS, ON P4N 7H9, Telephone No. 705 267-1188, Mining Division LARDBER LAKE, Township/Area CURRIE TOWNSHIP, M or G Plan No. M-341, Dates Work Performed From: JANUARY 5, 1996 To: FEBRUARY 16, 1996

Work Performed (Check One Work Group Only)

Table with columns Work Group and Type. Includes categories like Geotechnical Survey, Physical Work, Rehabilitation, Other Authorized Work, Assays, and Assignment from Reserve. A 'RECEIVED' stamp is present over the table.

Total Assessment Work Claimed on the Attached Statement of Costs \$ 13,457

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)

Table with columns Name and Address. Lists J. GRANT EXSICS EXPLORATION LTD and GARY DE SCHUTTER (FALCONBRIDGE LTD).

(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 May 10, 1996, Recorded Holder or Agent (Signature) [Signature]

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 GARY DE SCHUTTER; P.O. BOX 1140, 571 MONETA AVE, TIMMINS, ONTARIO P4N 7H9, Telephone No. 705 267-1188, Date May 10, 1996, Certified By (Signature) [Signature]

For Office Use Only

Total Value Cr. Recorded appl 11765, Date Recorded 96 May 13, Mining Recorder [Signature], Date Approved [Signature], Received Stamp LARDBER LAKE MINING DIVISION MAY 13 1996

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
	866721	1	\$ 700	0	\$ 700	0
	866722	1	\$ 950	0	\$ 800	\$ 150
	866723	1	\$ 950	0	\$ 950	0
	866724	1	\$ 700	0	\$ 700	0
	1193806	4	0	\$ 1600	0	0
	1198869	12	\$ 2359	0	\$ 1789	\$ 570
	1201083	16	\$ 4280	0	\$ 4140	\$ 140
	1201084	4	\$ 450	0	0	\$ 450
	1201248	12	0	\$ 4140	0	0
	1201249	12	\$ 991	\$ 3625	0	0
	1201250	2	0	\$ 800	0	0
	1201417	8	\$ 1982	0	\$ 1600	\$ 382
	1201418	2	\$ 95	\$ 800	0	0
	1201419	2	0	\$ 800	0	0
Total Number of Claims			\$ 13457	\$ 11765	\$ 10679	\$ 1692

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 prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

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: *[Handwritten Signature]* Date: *May 10 1996*



Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Transaction No./N° de transaction

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 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, 4^e 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		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
	MINING LOOP FEM	\$ 3,500	
	LINECUTTING & HLEM	\$ 6,604	
	MAGNETICS	\$ 3,353	\$ 13,457
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			\$ 13,457

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)			

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
	x 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
	x 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 AGENT, ASSOCIATE GEOLOGIST 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 [Signature] Date May 10/96

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

August 07, 1996

Our File: 2.16532
Transaction #: W9680.00228

Mining Recorder
Ministry of Northern Development & Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Mr. Spooner:

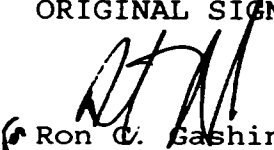
**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND, CLAIM(S)
866721 ET AL. IN CURRIE TOWNSHIP**

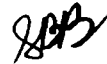
Assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission. The credit has been approved under Section 14, Geophysics (MAG, EM), of the Assessment Work Regulation.

The approval date is August 07, 1996. Please indicate this approval on the claim record.

If you have any questions regarding this correspondence, please contact Steven Beneteau at (705) 670-5855.

Yours sincerely,
ORIGINAL SIGNED BY:


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

 SBB/jf

cc: Resident Geologist
Kirkland Lake, Ontario

✓ Assessment Files Library
Sudbury, Ontario

FALCONBRIDGE



May 10, 1996

FALCONBRIDGE LIMITED - EXPLORATION

P.O. Box 1140, 571 Moneta Avenue

Timmins, Ontario

P4N 7H9

Telephone: 705-267-1188

Fax: 705-264-6080

Mining Recorders Office
Larder Lake Mining Division
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2
(705) 567-9242
(705) 567-5621 (Fax)

copy

RE: ASSESSMENT WORK - CURRIE TOWNSHIP

To Whom it May Concern,

Please find enclosed geophysical reports to be filed for assessment purposes on a group of claims that Falconbridge Limited holds in Currie Township, near Matheson, Ontario. A total of \$13,457 of assessment work has been done on a number of claims in Currie Township, \$11,765 is to be assigned to contiguous claims; the remainder (\$1,692) is to be kept on reserve.

The total direct cost was divided by the amount of work (approximate %) performed on each claim to get the \$/claim value used on the "Report of Work" form.

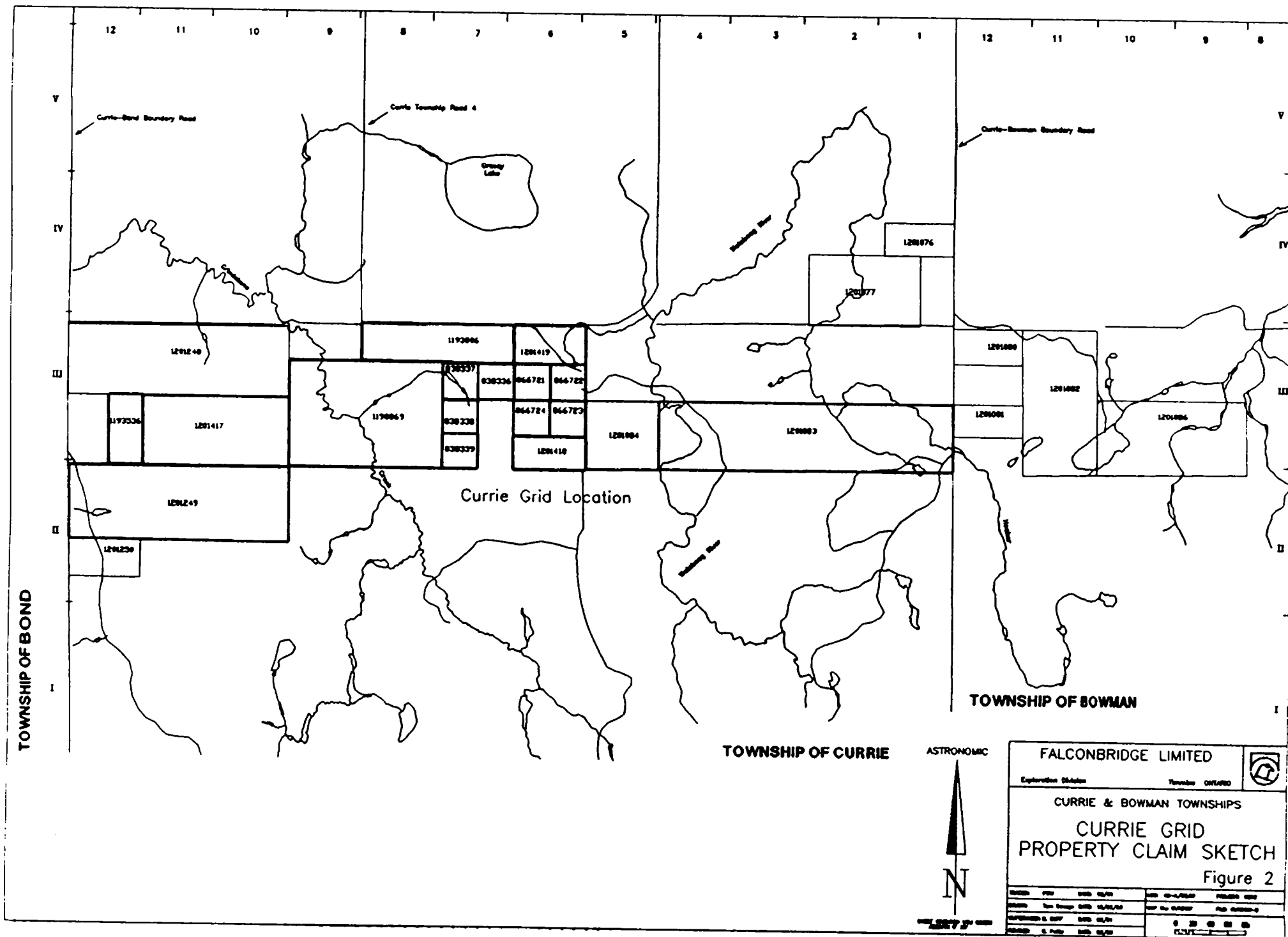
Should it become necessary, cut credits from claims 1201418 and 1201419.

Should you have any questions concerning this matter, please call me at my office in Timmins at (705) 267-1188 extension 250. Thank you.

Sincerely;



Gary De Schutter
Associate Geologist
Falconbridge Limited



TOWNSHIP OF BOND

TOWNSHIP OF BOWMAN

TOWNSHIP OF CURRIE

ASTRONOMIC



FALCONBRIDGE LIMITED		
Exploration Division	Township ONL490	
CURRIE & BOWMAN TOWNSHIPS		
CURRIE GRID PROPERTY CLAIM SKETCH		
Figure 2		
DATE: FEB 2005	BY: [Signature]	DATE: 02-10-2005
PROJECT: New Group 2005 01/01/05	APP: [Signature]	APP: [Signature]
APPROVED BY: [Signature]	DATE: 02/01/05	0 20 40 80 120
SCALE: 1:50,000	DATE: 02/01/05	CL: [Signature]

Taylor Twp.

THE TOWNSHIP OF

OF
CURRIE

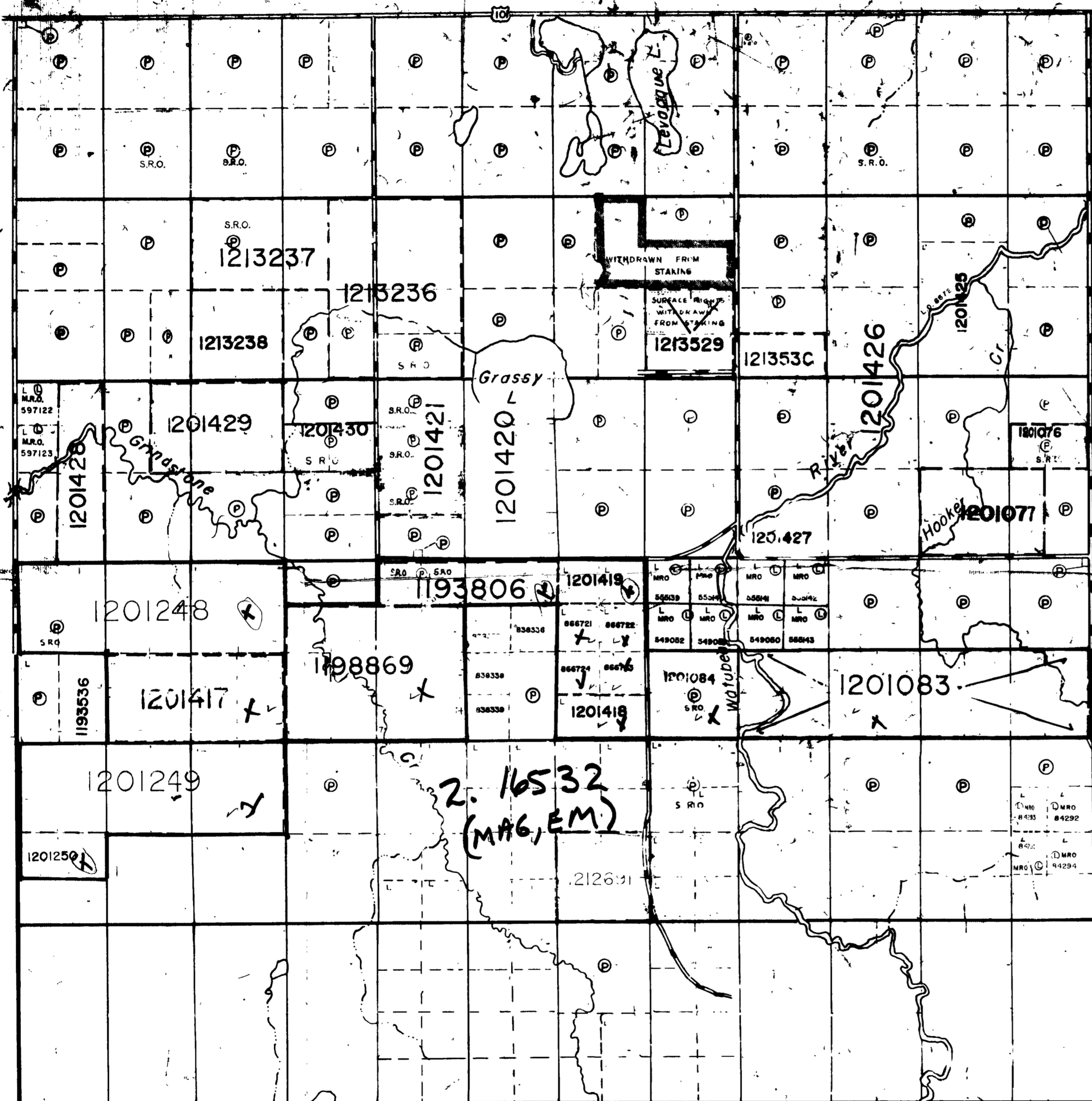
DISTRICT OF
COCHRANE

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

Bond Twp.

Bowman Twp.



VI
V
IV
III
II
I

LEGEND

- PATENTED LAND
- CROWN LAND SALE or
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- EXPLORATORY LICENCE OF OCCUPATION

NOTES

L.O. 8672 - Flooding rights to 820 a.s.l. contour
 * Filed Only application to record easements of these claims under consideration

AREA MARKED THIS
 Files 1193
 21312
 WITHDRAWN FROM STAKING
 UNDER SEC 39(1) OF MINING ACT

400' Surface rights reservation around all lakes and rivers.

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.

Drawn from staking under Section Mining Act (R.S.O. 1970)

File	Date	Disposition
		DATE OF ISSUE
	MAY 14 1996	
LARDER LAKE MINING RECORDER'S OFFICE		

PLAN NO- M.341/22

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MINING BRANCH

COPY OF THIS MYLAR
ARCHIVED NOV 08/91
COPY OF THIS MYLAR
ARCHIVED SEPT.21/93

Egan Twp.

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

J. v. Kalben

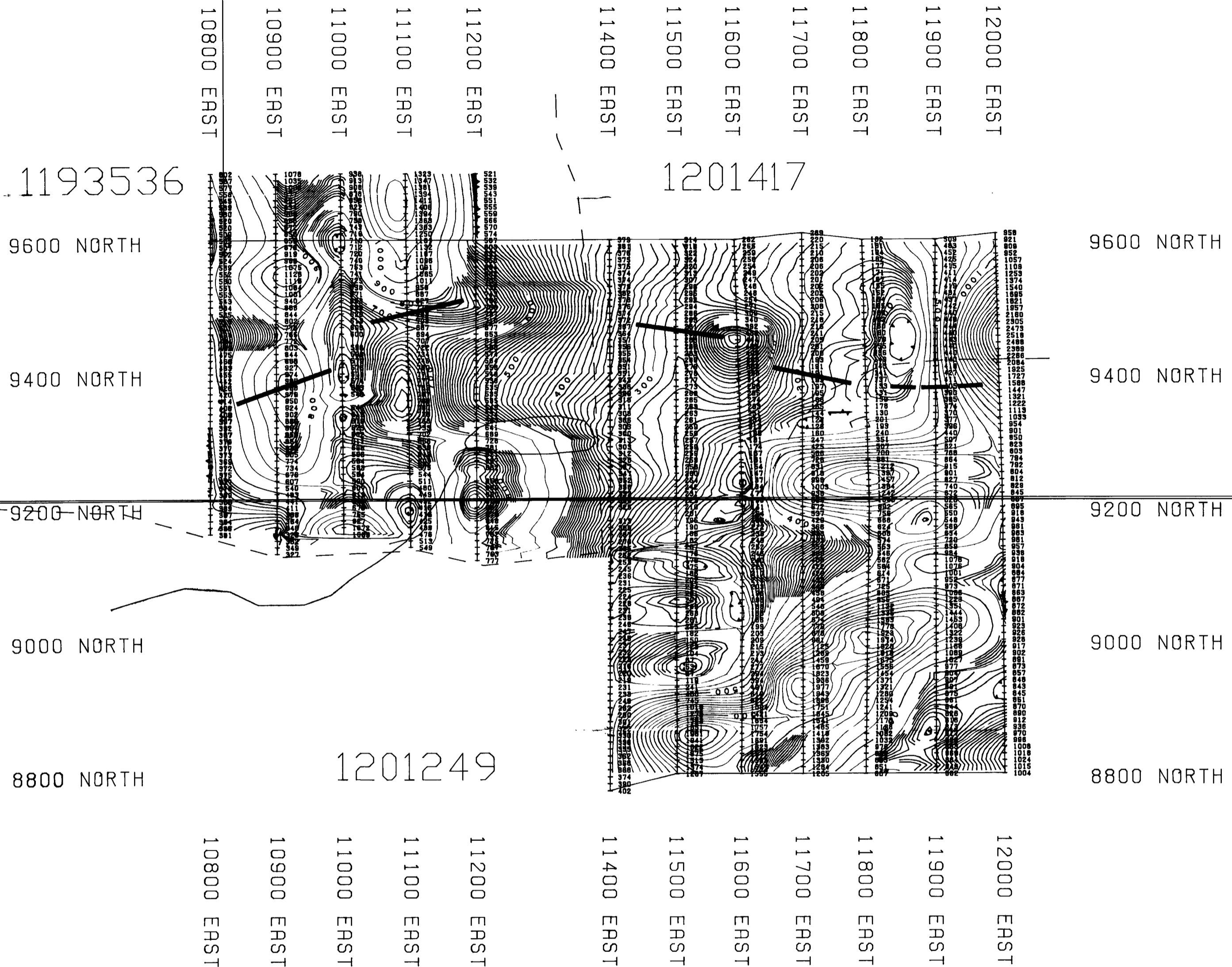


42A07NE0015 2.16532 CURRIE

M.341/22
CURRIE TWP.
1/25 C.M.

BOND TOWNSHIP
CURRIE TOWNSHIP

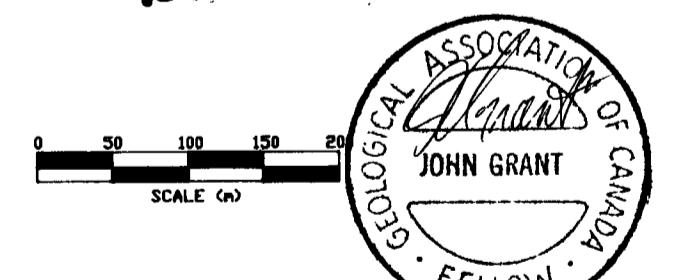
CON III



LOT 12 LOT 11 LOT 10

CON II

2.16532



LEGEND
 Instrument: BRGM DMNI-IV
 Parameters Measured: Earth's total magnetic field
 Accuracy: +/- 1 nano-teslas
 Diurnals: Corrected by base station recorder
 Contour Interval: 0,10,20,30,40,50,.....
 Reference Field: 59,000 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: CURRIE-BOWMAN OPTION PN#8262
 TITLE: GRID A
MAGNETOMETER SURVEY

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P.Gauthier Interp: J.C.Grant Job No.: E-149



BOND TOWNSHIP
CURRIE TOWNSHIP

CON III

1193536

1201417

9600 NORTH

9600 NORTH

9400 NORTH

9400 NORTH

9200 NORTH

9200 NORTH

9000 NORTH

9000 NORTH

8800 NORTH

8800 NORTH

1201249

10900 EAST

11100 EAST

11500 EAST

11700 EAST

11900 EAST

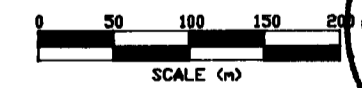
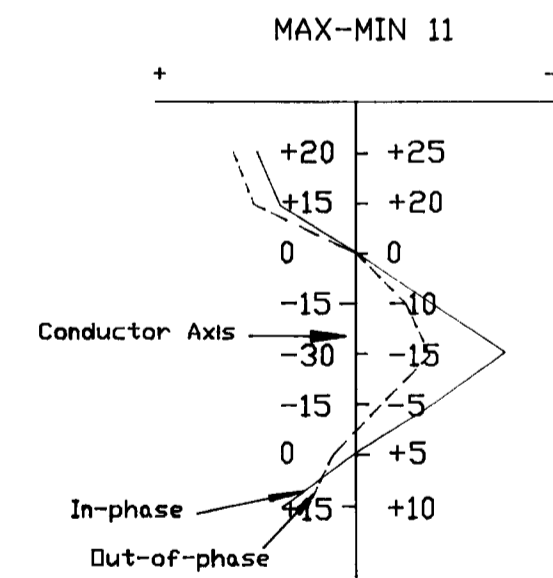
LOT 12

LOT 11

LOT 10

CON II

2.16532



LEGEND
 Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)
 Frequency: 444 Hz
 Coil Separation: 150m
 Operator: J. DerWeduwen
 Profile Scale: 1cm=+/-5%

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

CLIENT: FALCONBRIDGE LIMITED
 PROPERTY: CURRIE-BOWMAN OPTION PN#8262
 TITLE: GRID A
 MAX-MIN II 444 Hz

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P.Gauthier Interp: J.C.Grant Job No.: E-149



BOND TOWNSHIP
CURRIE TOWNSHIP

CON III

1193536

1201417

8600 NORTH

9600 NORTH

9400 NORTH

9400 NORTH

9200 NORTH

9200 NORTH

9000 NORTH

9000 NORTH

8800 NORTH

8800 NORTH

1201249

10900 EAST

11100 EAST

11500 EAST

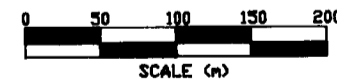
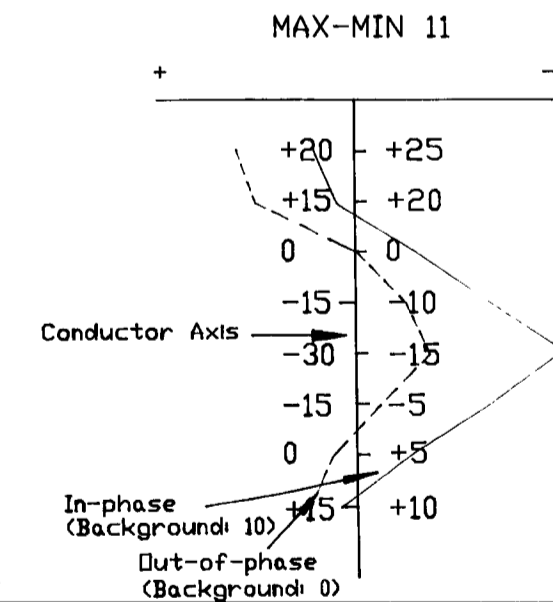
11700 EAST

11900 EAST

LOT 12

LOT 11

LOT 10



CON II

2.16532

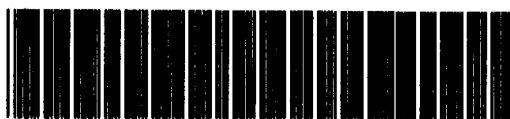
LEGEND

Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)
 Frequency: 1777 Hz
 Coil Separation: 150m
 Operator: J. DerWeduwen
 Profile Scale: 1cm=+/-5%

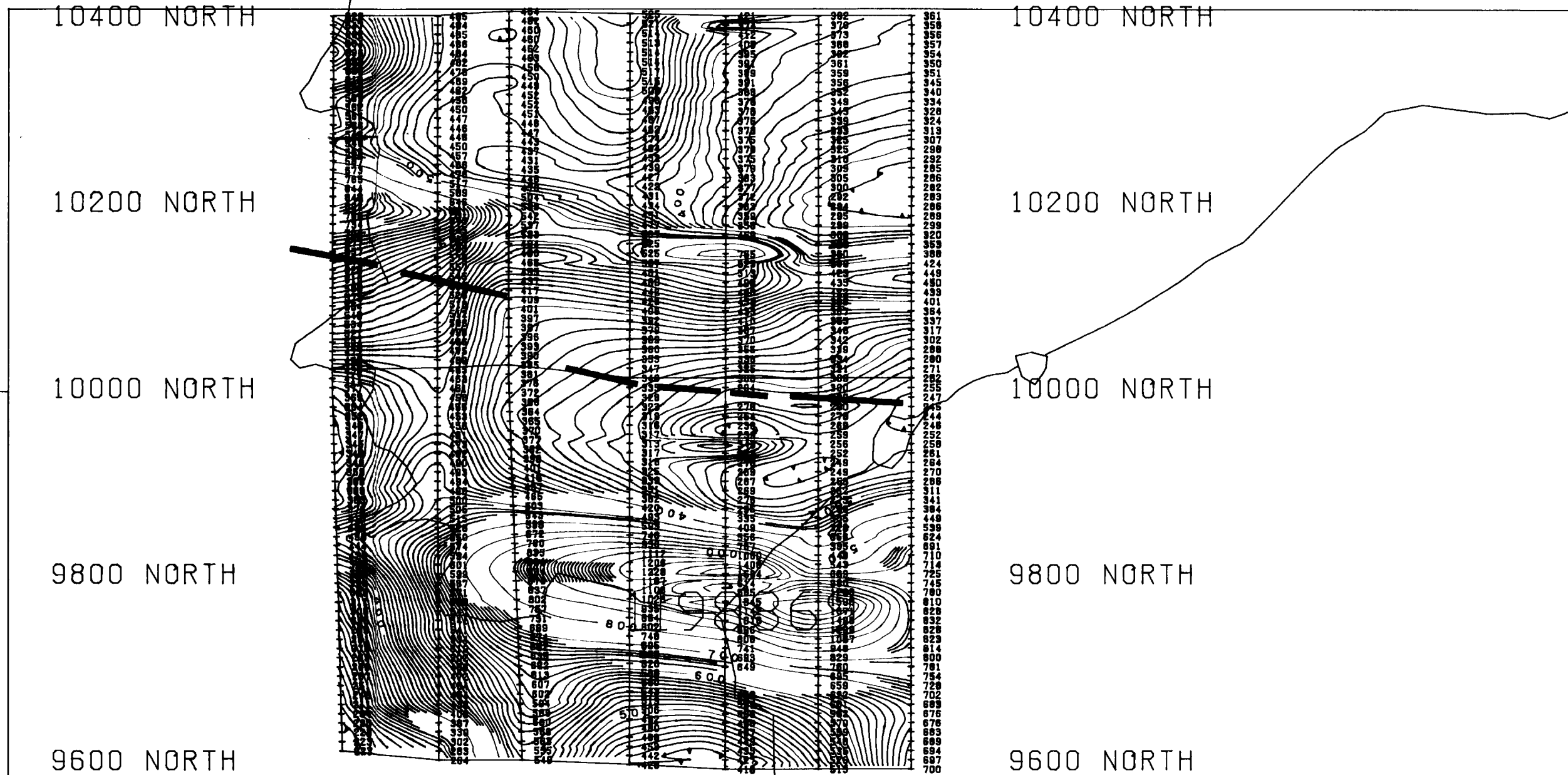
EXSICS EXPLORATION LTD.
 P.O. Box 1880, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4151

CLIENT: **FALCONBRIDGE LIMITED**
 PROPERTY: **CURRIE-BOWMAN OPTION PN#8262**
 TITLE: **GRID A**
MAX-MIN II 1777 Hz

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P. Gauthier Interp: J.C. Grant Job No.: E-149



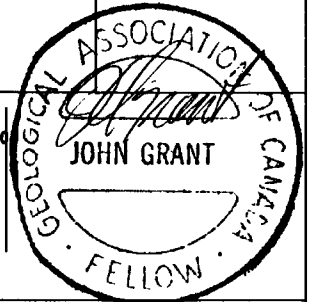
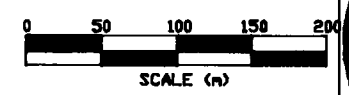
CON III



2.16532

CON II LOT 6

Creek LOT 8



LEGEND
 Instrument: BRGM OMNI-1V
 Parameters Measured: Earth's total magnetic field
 Accuracy: +/- 1 nano-teslas
 Diurnals: Corrected by base station recorder
 Contour Interval: 0,10,20,30,40,50,.....
 Reference Field: 59,000 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: CURRIE-BOWMAN OPTION PN#8262
TITLE: GRID B
MAGNETOMETER SURVEY

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P.Gauthier Interp: J.C.Grant Job No.: E-149



CON III

10400 NORTH

10200 NORTH

10000 NORTH

9800 NORTH

9600 NORTH

12800 EAST

12900 EAST

13100 EAST

13300 EAST

10400 NORTH

10200 NORTH

10000 NORTH

9800 NORTH

9600 NORTH

12800 EAST

12900 EAST

13100 EAST

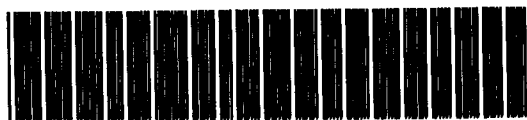
13300 EAST

3MHDS
-72m

3MHDS
-60m

19880

2.16532



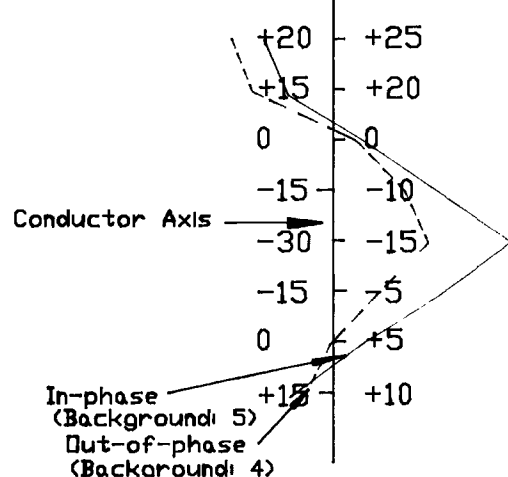
42A07NE0015 2.16532 CURRIE

250

CON II

LOT 9

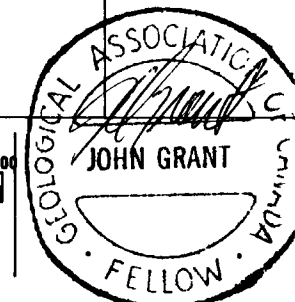
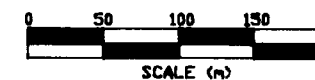
MAX-MIN 11



LEGEND

Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)

Frequency: 444 Hz
 Coil Separation: 150m
 Operator: J. DerWeduwen
 Profile Scale: 1cm=+/-5%



Creek LOT 8



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

CLIENT: FALCONBRIDGE LIMITED
 PROPERTY: CURRIE-BOWMAN OPTION PN#8262

TITLE: GRID B
 MAX-MIN II 444 Hz

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P. Gauthier Interp: J.C. Grant Job No.: E-149

CON III

10400 NORTH

10200 NORTH

10000 NORTH

9800 NORTH

9600 NORTH

12800 EAST

12900 EAST

13100 EAST

13300 EAST

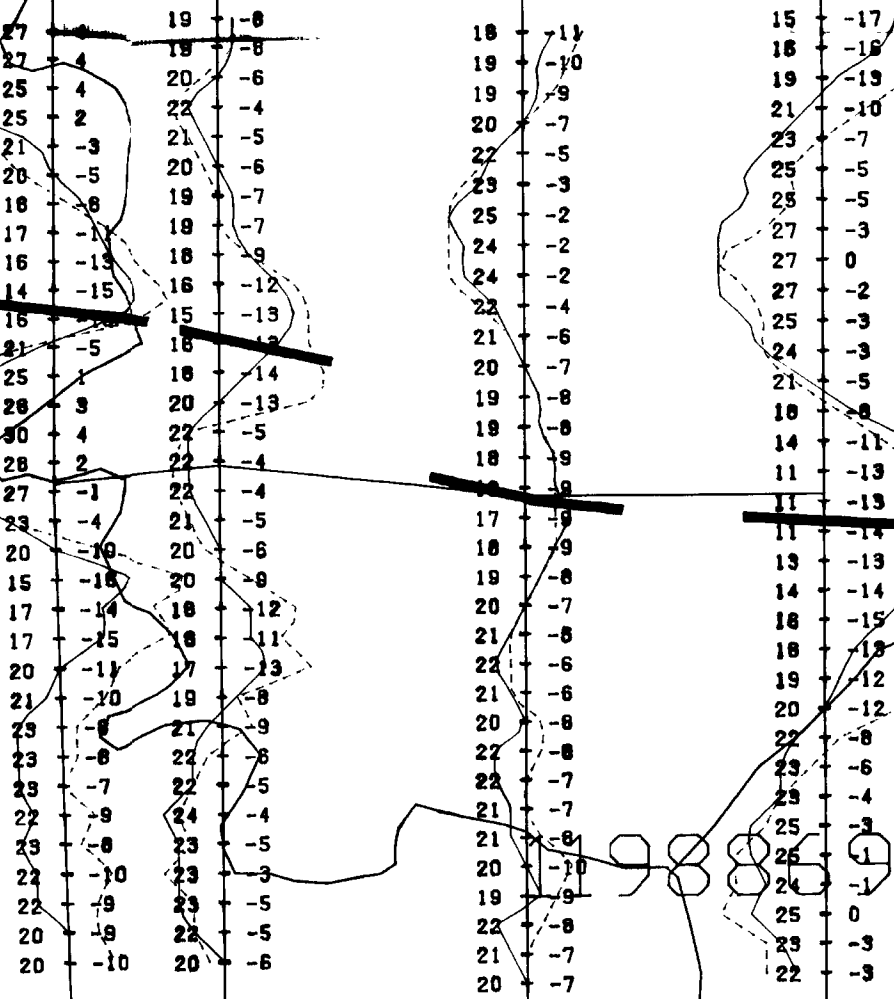
10400 NORTH

10200 NORTH

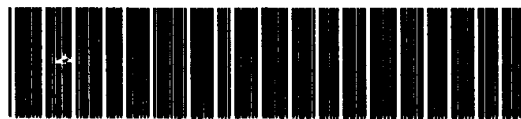
10000 NORTH

9800 NORTH

9600 NORTH



2.16532

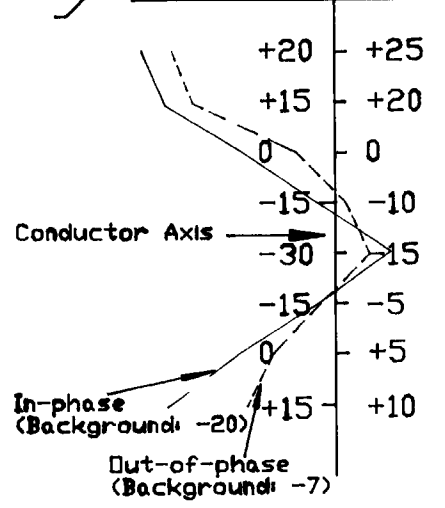


260

CON II

LOT 9

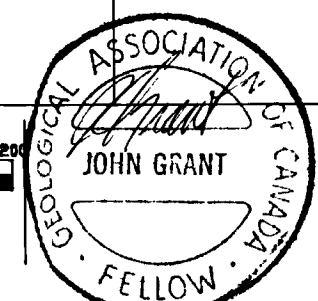
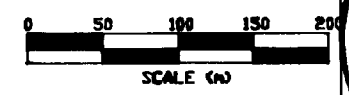
MAX-MIN 11



LEGEND

Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)
 Frequency: 1777 Hz
 Coil Separation: 150m
 Operator: J. DerWeduwen
 Profile Scale: 1cm=+/-5%

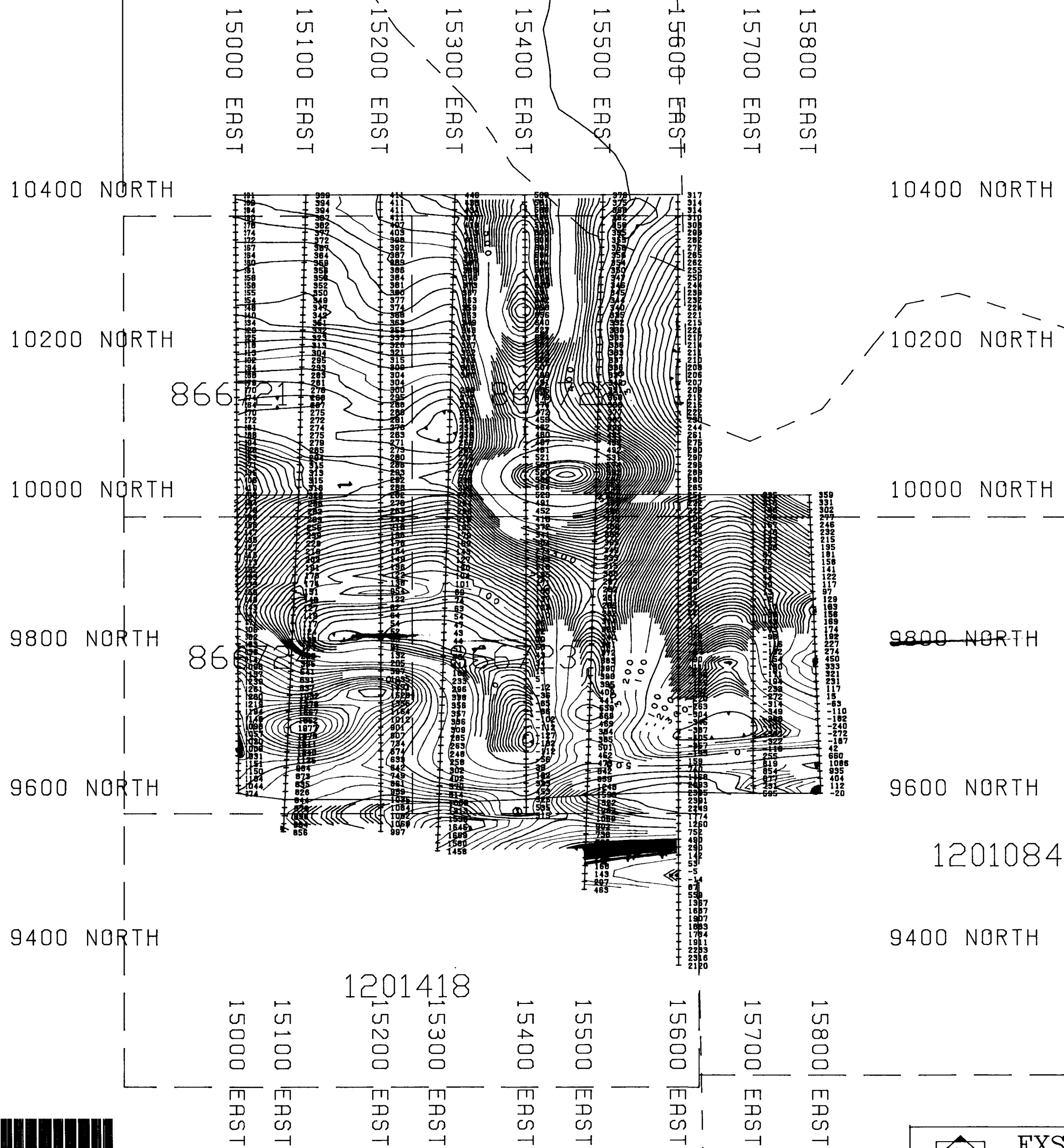
Creek LOT 8



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

CLIENT: FALCONBRIDGE LIMITED
 PROPERTY: CURRIE-BOWMAN OPTION PN#8262
 TITLE: GRID B
 MAX-MIN II 1777 Hz

Date: Jan. 1996 Scale: 1:5000 NTS:
 Drawn: P.Gauthier Interp: J.C.Grant Job No.: E-149



866 21

86

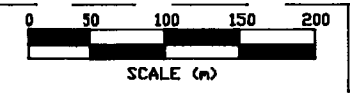
1201418

1201084

2.165 32


LOT 6

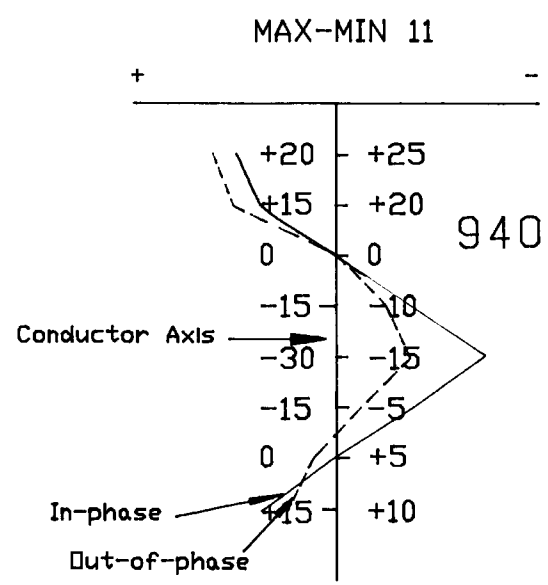
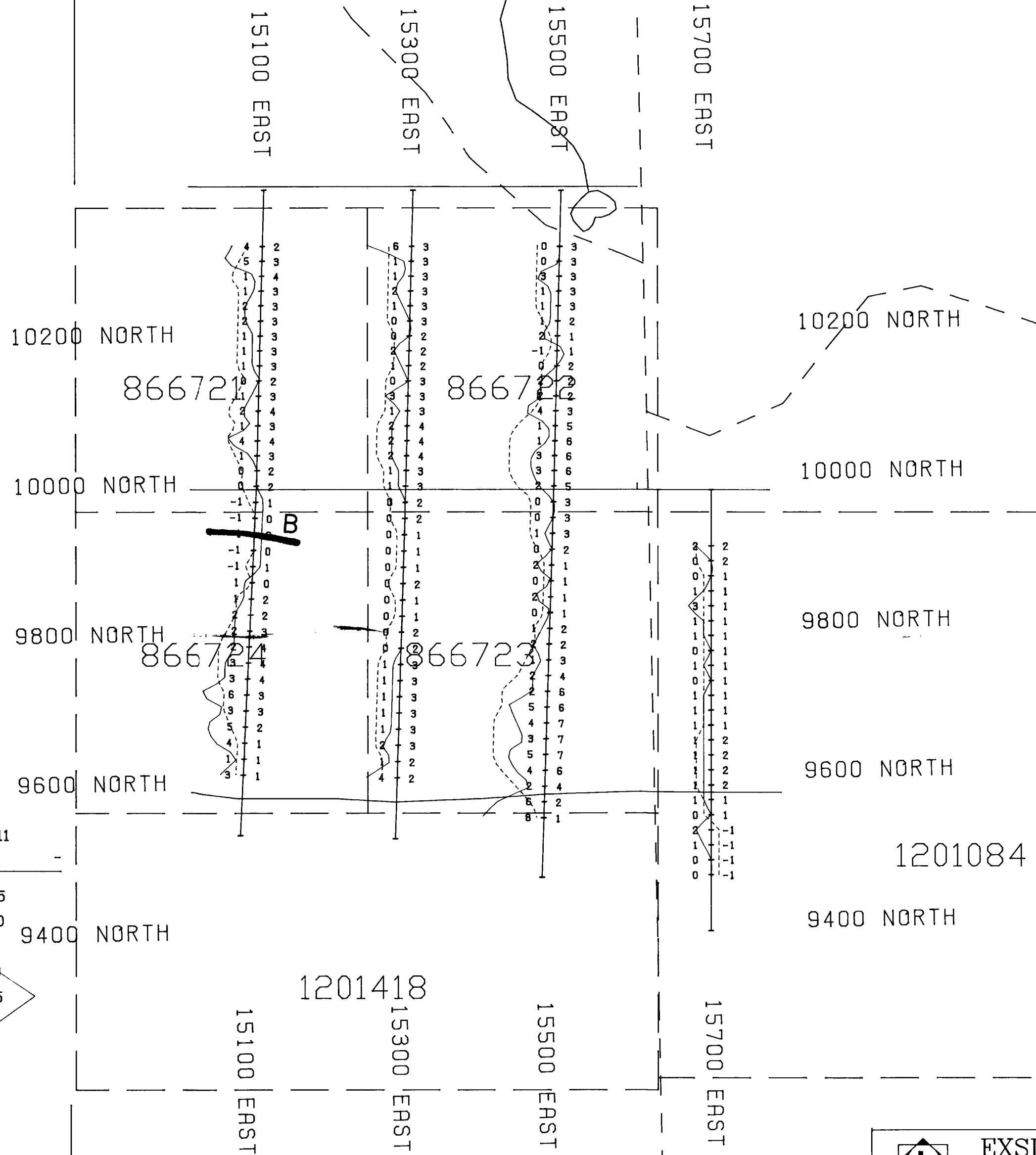
LOT 5



270

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: 57,500 gammas
 Datum Subtracted: 56,900 gammas

 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-149




LEGEND
 Instrument: Apex Parametrics Max-Min 11
 Model: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)
 Frequency: 444 Hz
 Coil Separation: 150m
 Operator: R. & R. Mathieu
 Profile Scale: 1cm=+/-5%

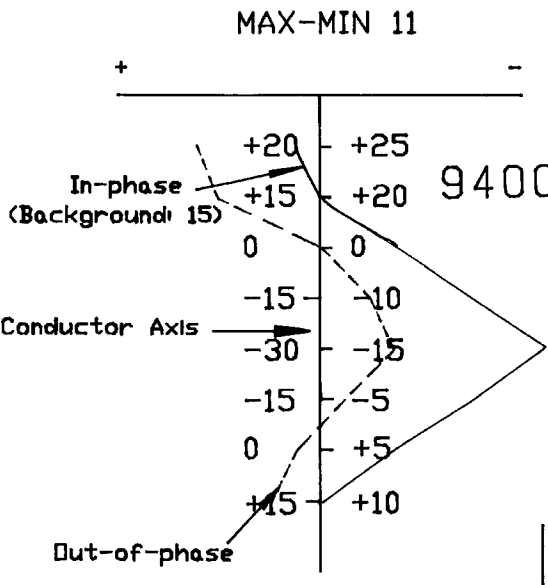
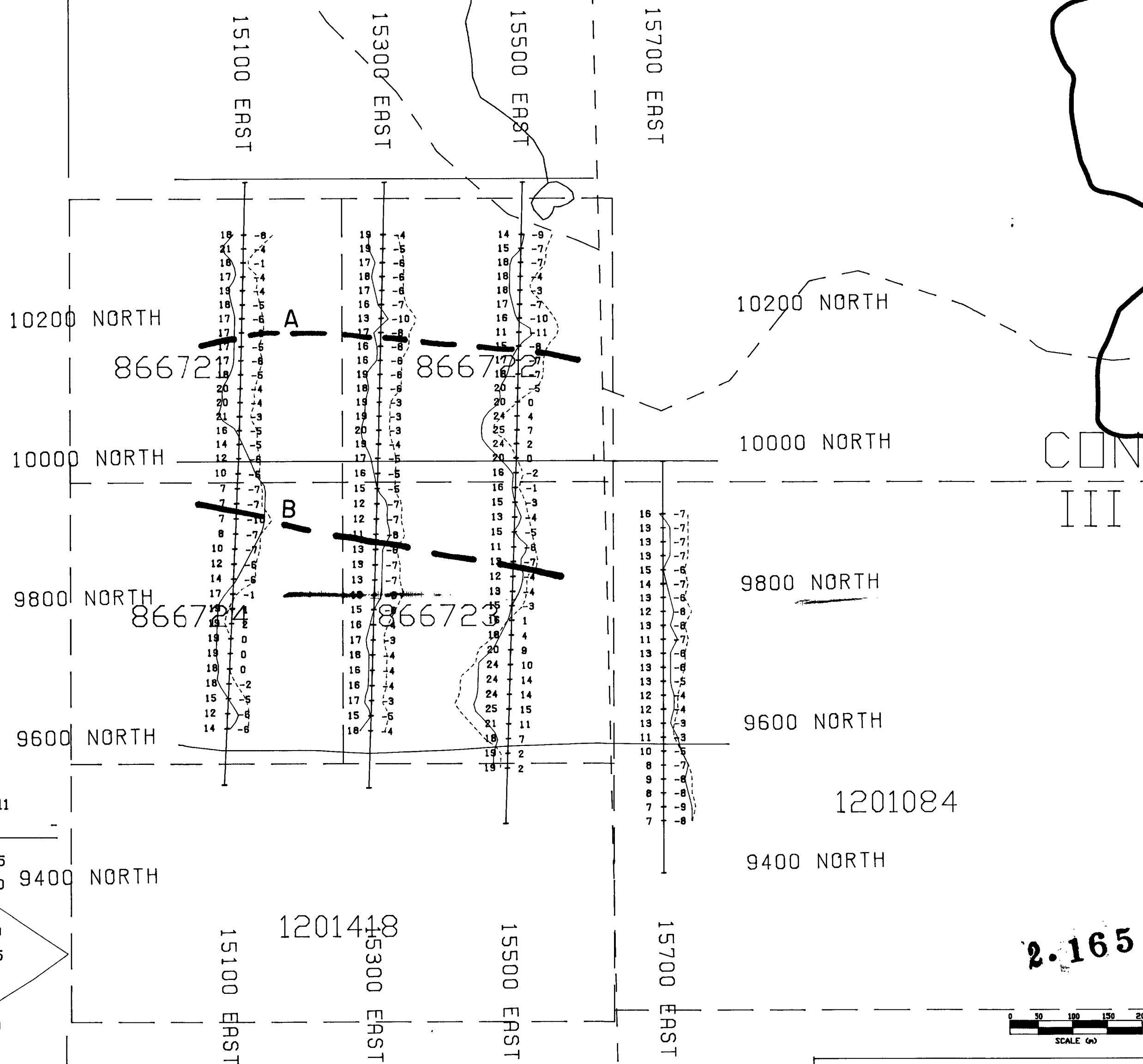
LOT 6

LOT 5

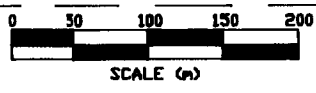


2.16532

 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-287-4151		
CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE-BOWMAN OPTION PN#8262		
TITLE: CURRIE TWP GRID C MAX-MIN II 444 Hz		
Date: Mar. 1996	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-149



LEGEND
 Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)
 Frequency: 1777 Hz
 Coil Separation: 150m
 Operator: R. & R. Mathieu
 Profile Scale: 1cm=+/-10%

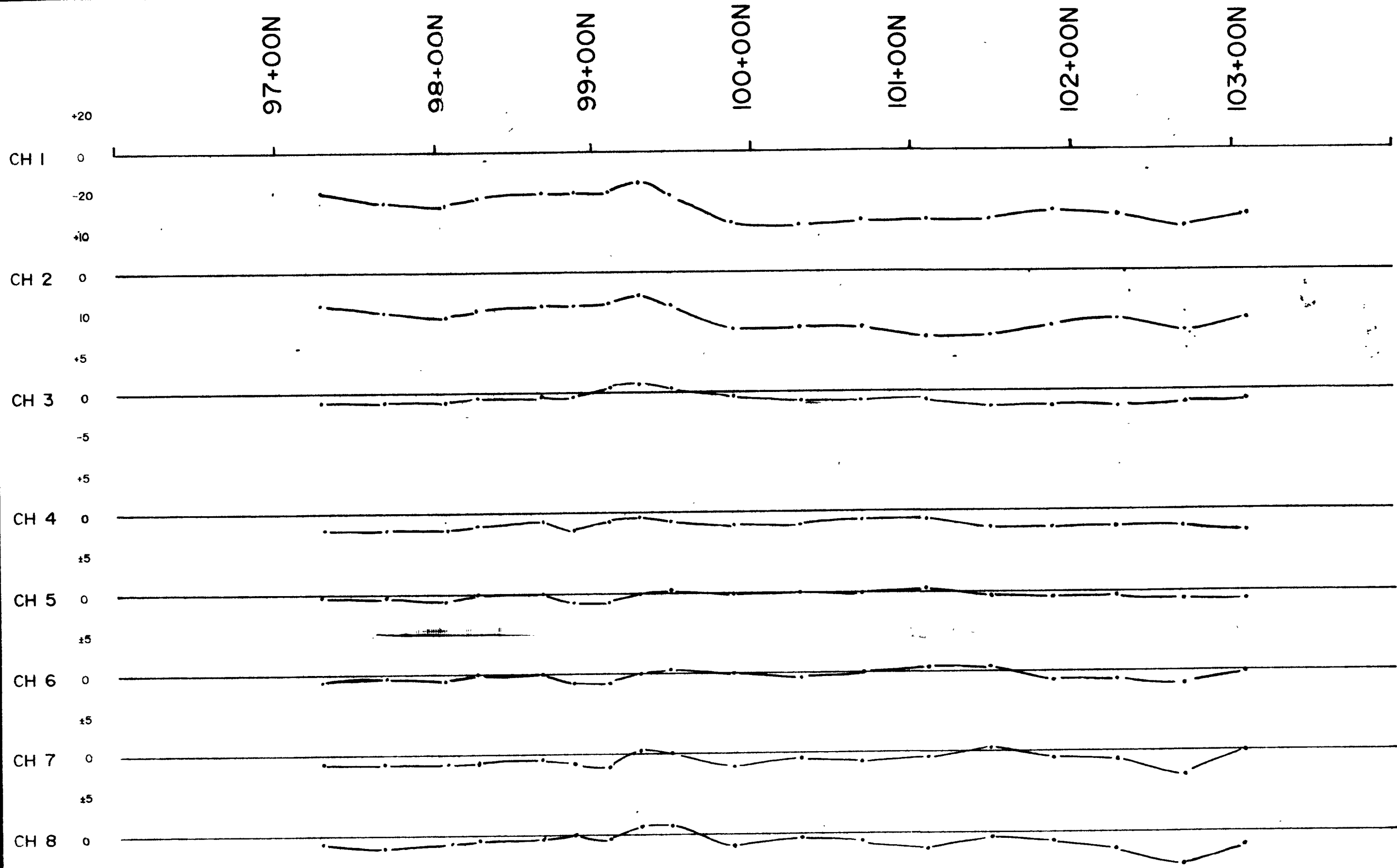


EXSICS EXPLORATION LTD.
 P.O. Box 1880, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-287-4151

CLIENT: FALCONBRIDGE LIMITED
PROPERTY: CURRIE-BOWMAN OPTION PN#8262
TITLE: CURRIE TWP GRID C
MAX-MIN II 1777 Hz

Date: Mar. 1996 Scale: 1:5000 NTS:
 Drawn: P. Gauthier Interp: J.C. Grant Job No.: E-149

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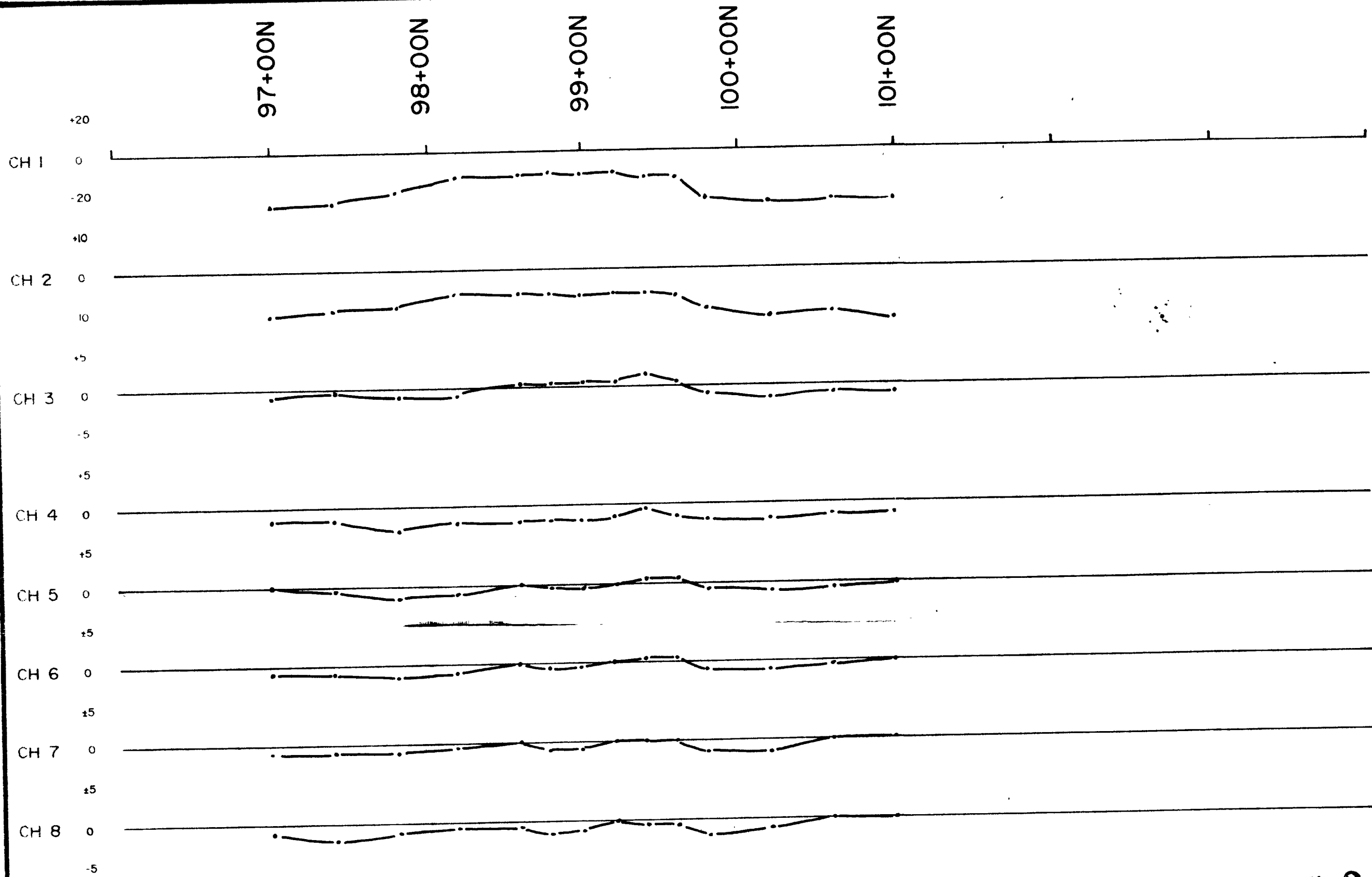
300

2.16532




DEPTH: 104m
 CONDUCTIVITY: 3MHOS

 EXSICS EXPLORATION LTD. P.O. Box 1000, P4M-7X1 Suite 13, Mellinger Bldg. Timmins Ont. Telephone: 705-267-4151		
PROPERTY: CURRIE - BOWMAN OPTION		
TITLE: CURRIE TWP L 153+00E GRID C PEM MOVING COIL SURVEY		
Date: Feb. 1996	Scale: 1:2500	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No E-57

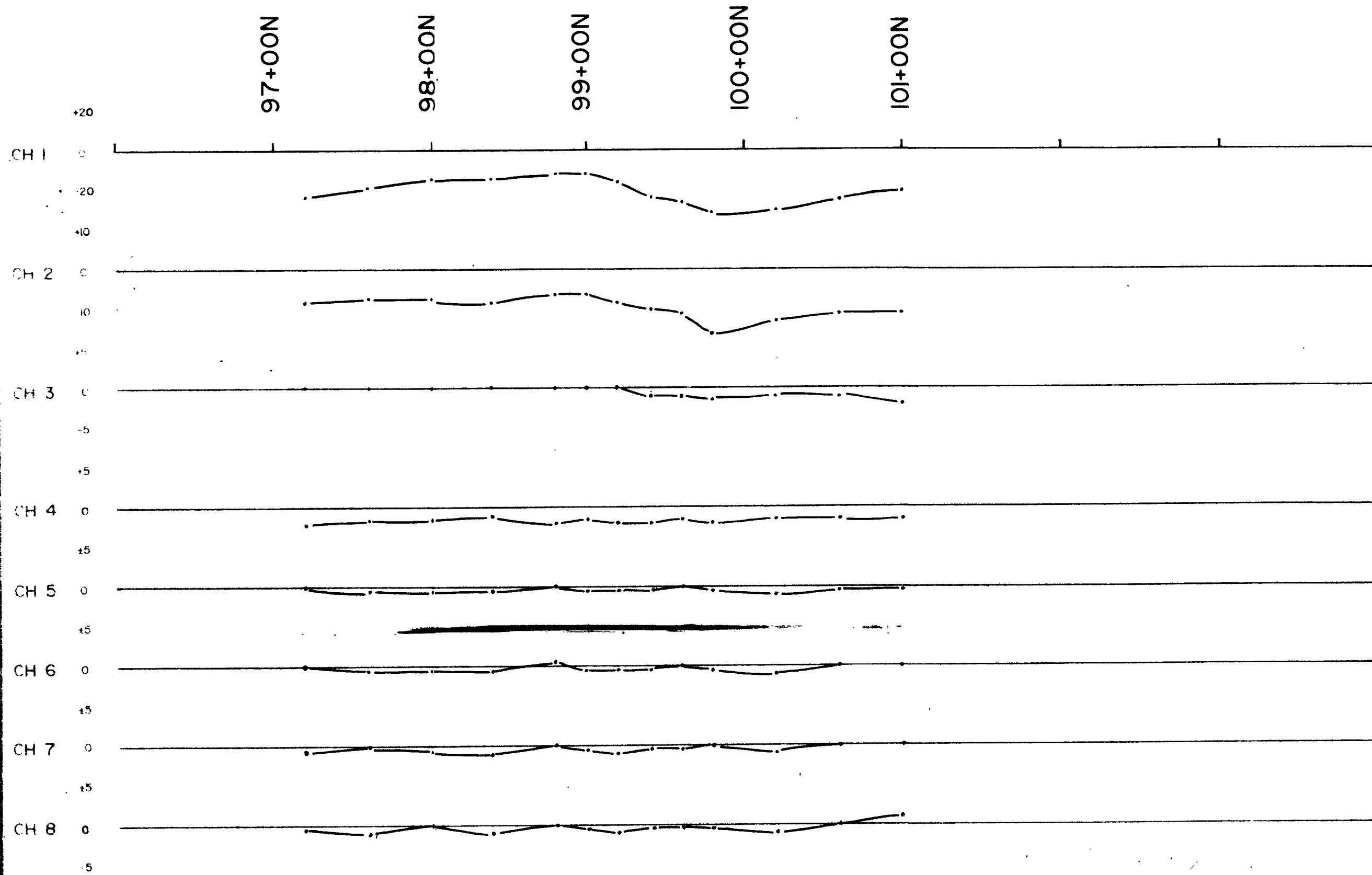


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	EXSICS EXPLORATION LTD. P.O. Box 988, P4N-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4151		
	<i>J. Grant</i>		
CLIENT:	FALCONBRIDGE LIMITED		
PROPERTY:	CURRIE - BOWMAN OPTION		
TITLE:	CURRIE TWP L 154+00E GRID C		
PEM MOVING COIL SURVEY			
Date: Feb. 1996	Scale: 1:2500	NTS:	
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-157	

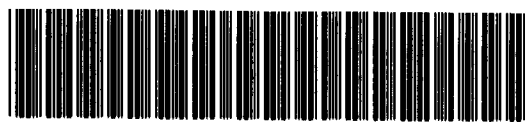




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	<i>Grant</i>	
CLIENT:	FALCONBRIDGE LIMITED	
PROPERTY:	CURRIE - BOWMAN OPTION	
TITLE:	CURRIE TWP L 155+00E GRID C PEM MOVING COIL SURVEY	
Date: Feb. 1996	Scale: 1:2500	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-157



42A07NE0015 2.16532 CURRIE



17800 EAST
17700 EAST
17600 EAST
17500 EAST
17400 EAST
17300 EAST
17200 EAST
17100 EAST
17000 EAST

CON III

10000 NORTH

10000 NORTH

9800 NORTH

9800 NORTH

9600 NORTH

9600 NORTH

201083

9400 NORTH

9400 NORTH

9200 NORTH

9200 NORTH

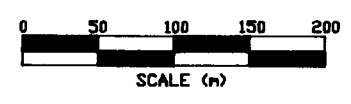
17800 EAST
17700 EAST
17600 EAST
17500 EAST
17400 EAST
17300 EAST
17200 EAST
17100 EAST
17000 EAST

CON II

LOT 4


LOT 3

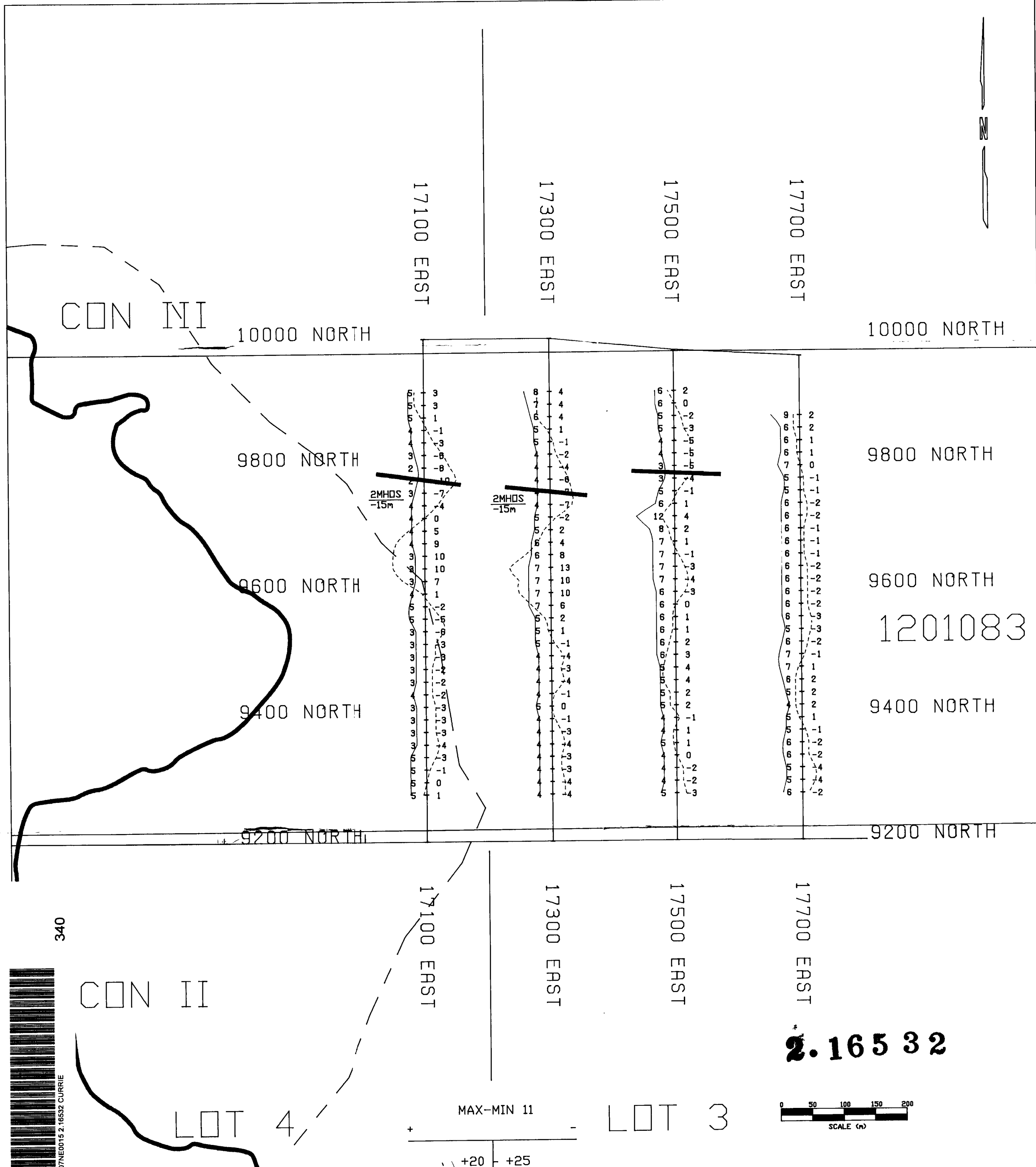
2.165 32



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



 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE-BOWMAN OPTION PN#8262		
TITLE: GRID D		
MAGNETOMETER SURVEY		
Date: Feb. 1996	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-149



340



CON II

LOT 4

17100 EAST

17300 EAST

17500 EAST

17700 EAST

9200 NORTH

9400 NORTH

9600 NORTH

9800 NORTH

10000 NORTH

9200 NORTH

9400 NORTH

9600 NORTH

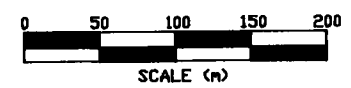
9800 NORTH

10000 NORTH

MAX-MIN 11

LOT 3

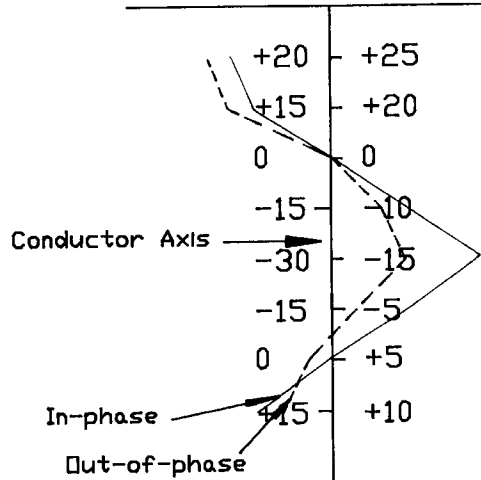
2.16532




LEGEND

Instrument: Apex Parametrics Max-Min 11
 Mode: Maximum Coupled, Horizontal Loop Survey
 Parameters Measured: Inphase (%)
 Out of phase (%)

Frequency: 444 Hz
 Coil Separation: 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		
PROPERTY: CURRIE-BOWMAN OPTION PN#8262		
TITLE: GRID D		
MAX-MIN II 444 Hz		
Date: Feb. 1996	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-149



CON IN-

10000 NORTH

10000 NORTH

17100 EAST

17300 EAST

17500 EAST

17700 EAST

9800 NORTH

9800 NORTH

9600 NORTH

9600 NORTH

9400 NORTH

9400 NORTH

9200 NORTH

9200 NORTH

21	7
21	7
19	0
15	-5
12	-12
2	-22
2	-30
3	-25
7	-19
1	1
15	20
16	29
17	37
17	37
15	25
13	7
11	-6
10	-15
7	-20
7	-10
9	-6
10	-4
9	-5
11	-4
9	-8
9	-9
9	-10
8	-13
11	-6
14	-1
15	2
17	7

30	4
25	2
22	1
21	-1
18	-7
14	-18
10	-20
7	-25
6	-27
13	-19
19	1
21	8
26	25
29	39
29	31
26	30
25	18
18	3
18	0
15	-6
11	-17
13	-11
10	-15
16	-3
17	-2
15	-5
12	-12
11	-14
11	-12
12	-6
10	-15
10	-15

22	-4
19	-9
16	-14
16	-14
10	-18
8	-18
8	-17
13	-21
18	-6
20	-6
32	-4
23	-9
20	-13
18	-17
16	-19
14	-24
15	-19
18	-7
18	-7
20	-3
21	0
23	4
23	10
23	10
20	3
19	1
16	-6
13	-1
19	2
17	-2
15	-6
13	-9
14	-6

27	-5
24	-5
22	-7
22	-7
20	-11
19	-13
19	-13
20	-14
20	-15
23	-13
20	-16
19	-15
19	-17
19	-18
20	-16
17	-23
15	-24
18	-16
17	-17
20	-11
22	-3
21	0
21	1
22	6
19	-1
16	-8
17	-7
15	-7
12	-17
11	-18
15	-12

1201083

350

CON II

LOT 4

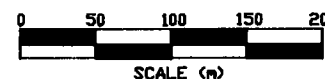
17100 EAST

17300 EAST

17500 EAST

17700 EAST

2.16532

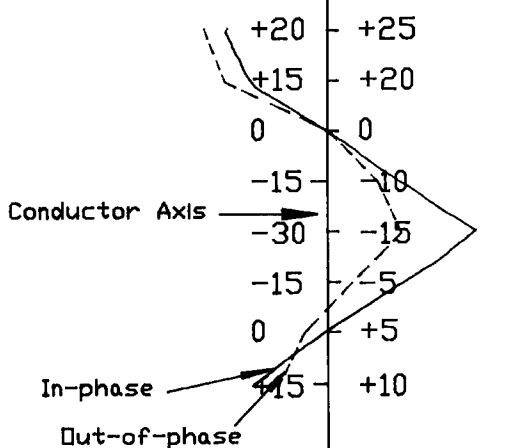


MAX-MIN 11

LOT 3

LEGEND

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



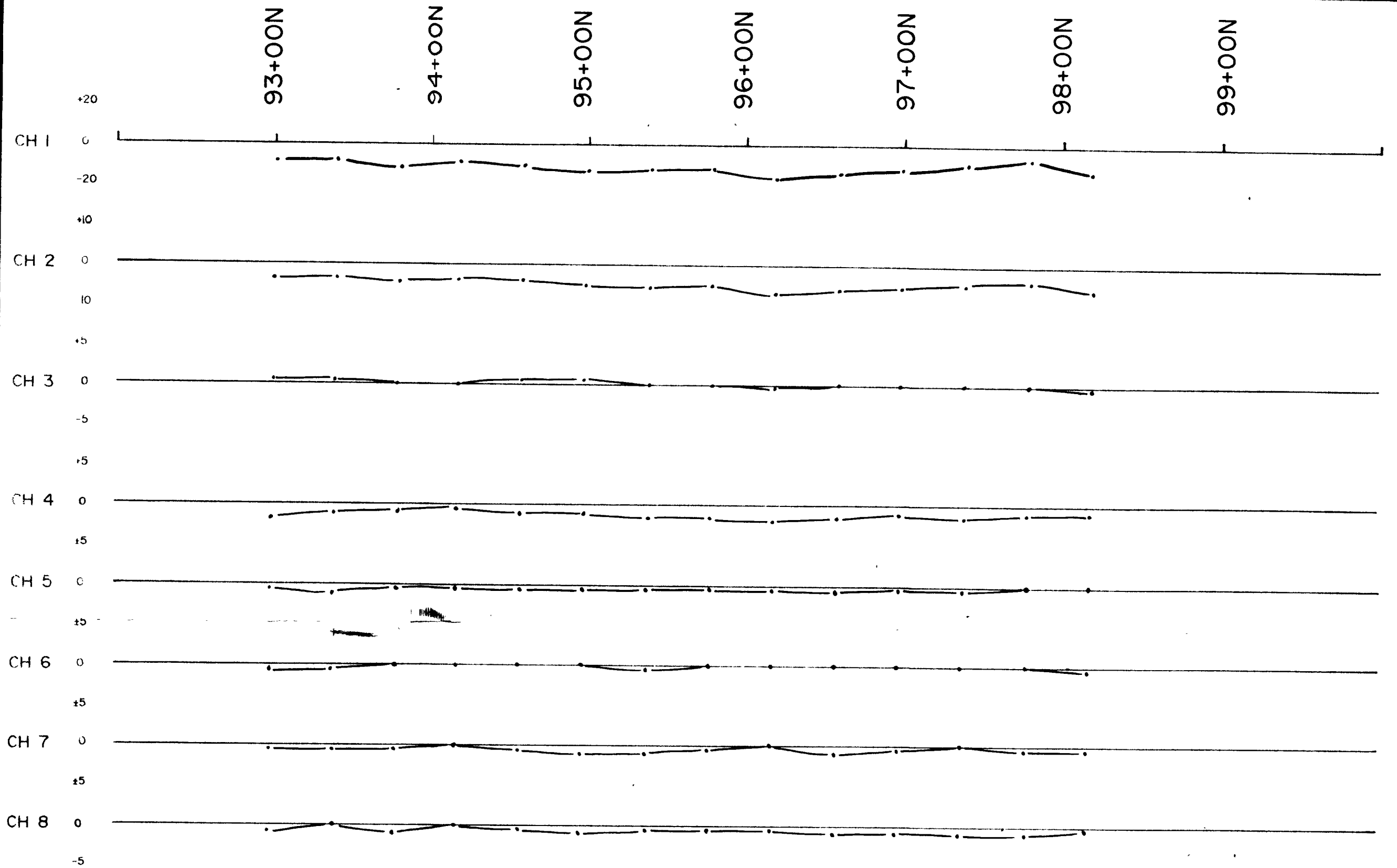
EXSICS EXPLORATION LTD.

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

CLIENT: FALCONBRIDGE LIMITED
 PROPERTY: CURRIE-BOWMAN OPTION PN#8262

TITLE: GRID D
 MAX-MIN II 1777 Hz

Date: Feb. 1996 Scale: 1:5000 NTS:
 Drawn: P. Gauthier Interp: J.C. Grant Job No.: E-149



2.16532

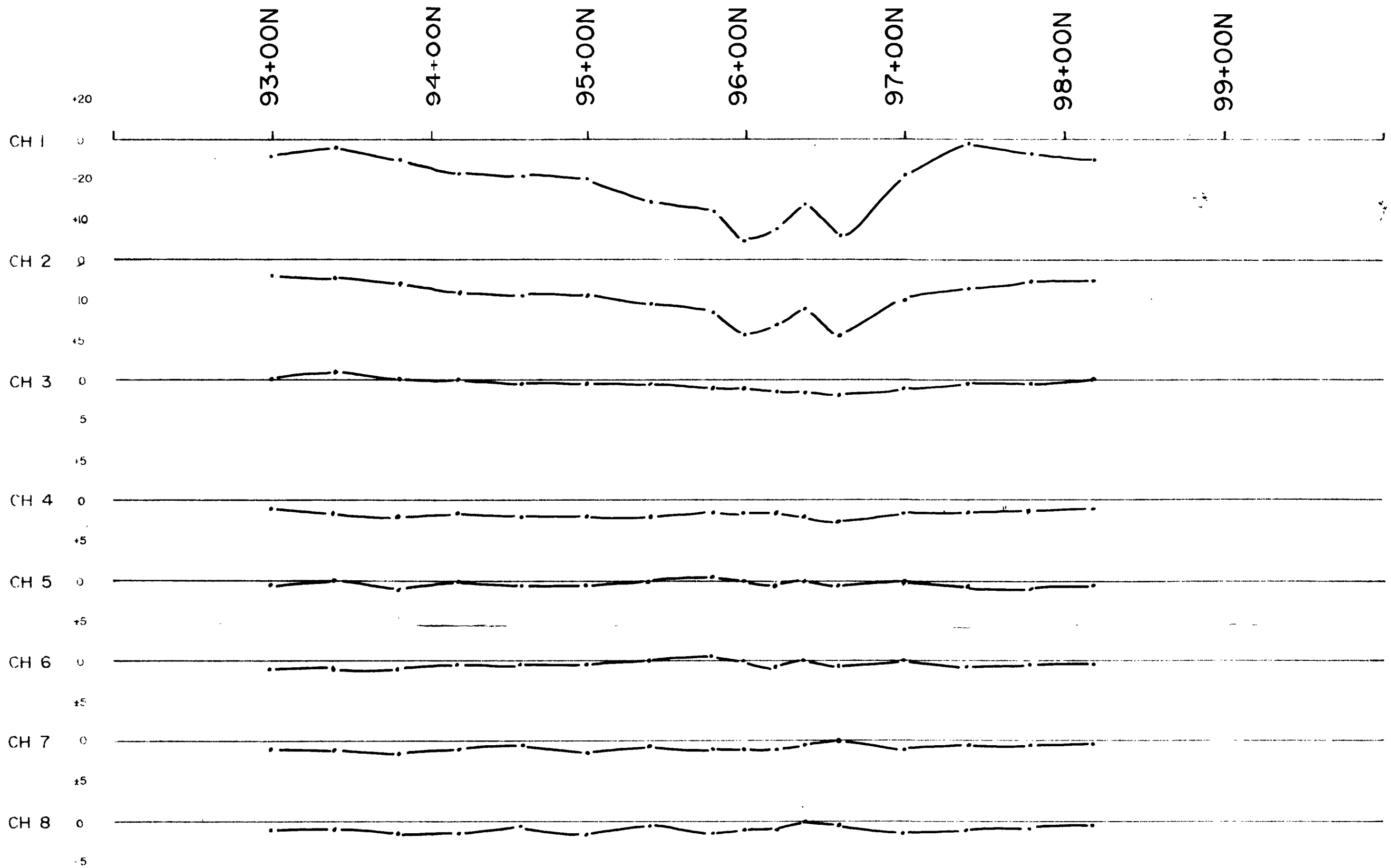



Grant

	EXSICS EXPLORATION LTD. P.O. Box 1880, P4M-7X1 Suite 13, Mellinger Bldg. Timmins Ont. Telephone: 705-267-4451		
	CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE - BOWMAN OPTION			
TITLE: CURRIE TWP L 172+00E GRID D PEM MOVING COIL SURVEY			
Date: Feb. 1996	Scale: 1:2500	NTS:	
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-157	




42A07NE0015 2.16532 CURRIE



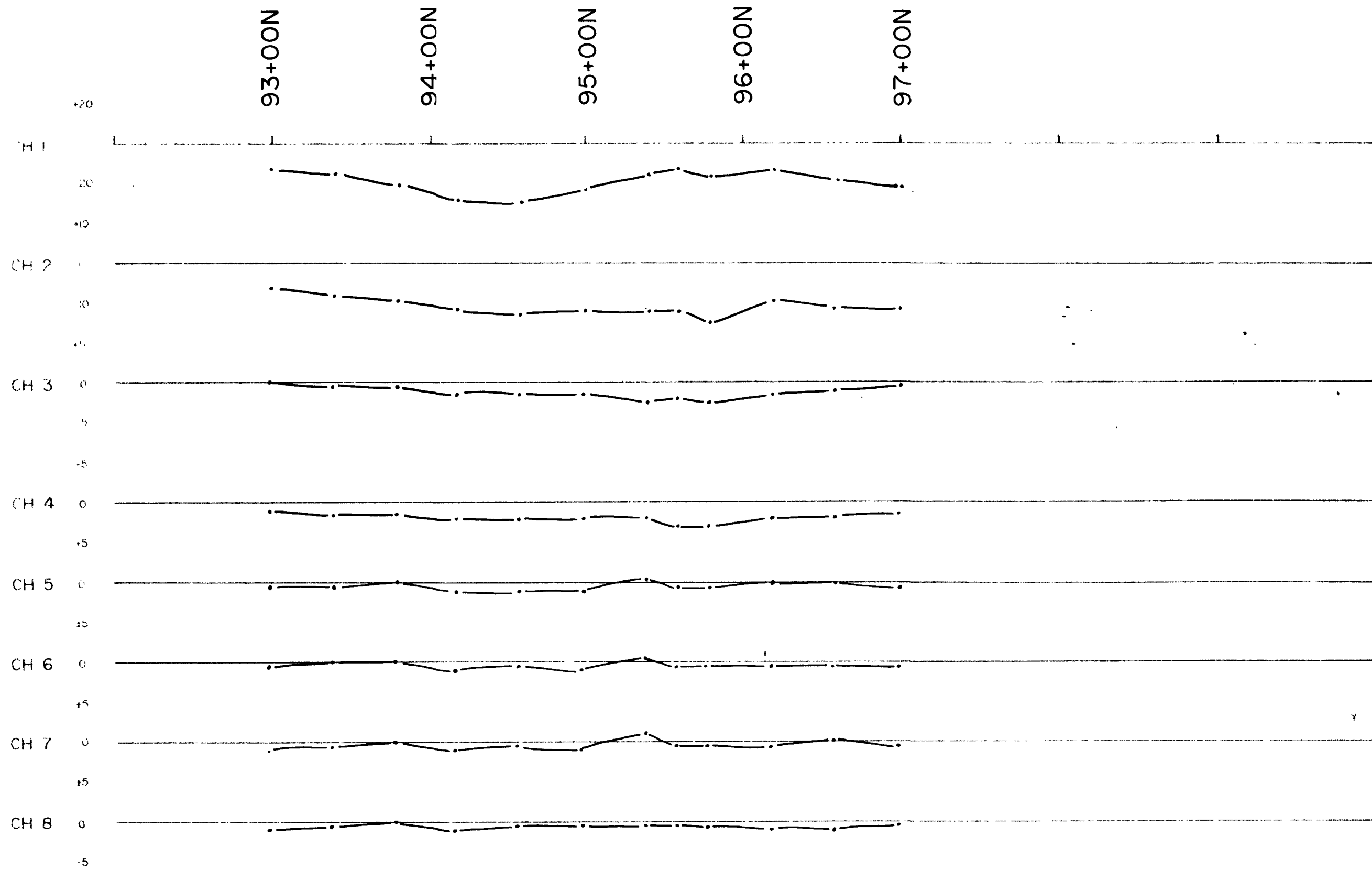
2.165 32


J. Grant

	EXSICS EXPLORATION LTD. P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4151		
	CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CURRIE - BOWMAN OPTION			
TITLE: CURRIE TWP L 173+00E GRID D PEM MOVING COIL SURVEY			
Date: Feb. 1996	Scale: 1:2500	NTS	
Drawn: P. Gauthier	Interp: J.C. Grant	Job No: E-157	

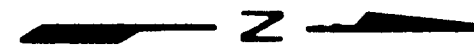


42A07NE0015 2.16532 CURRIE



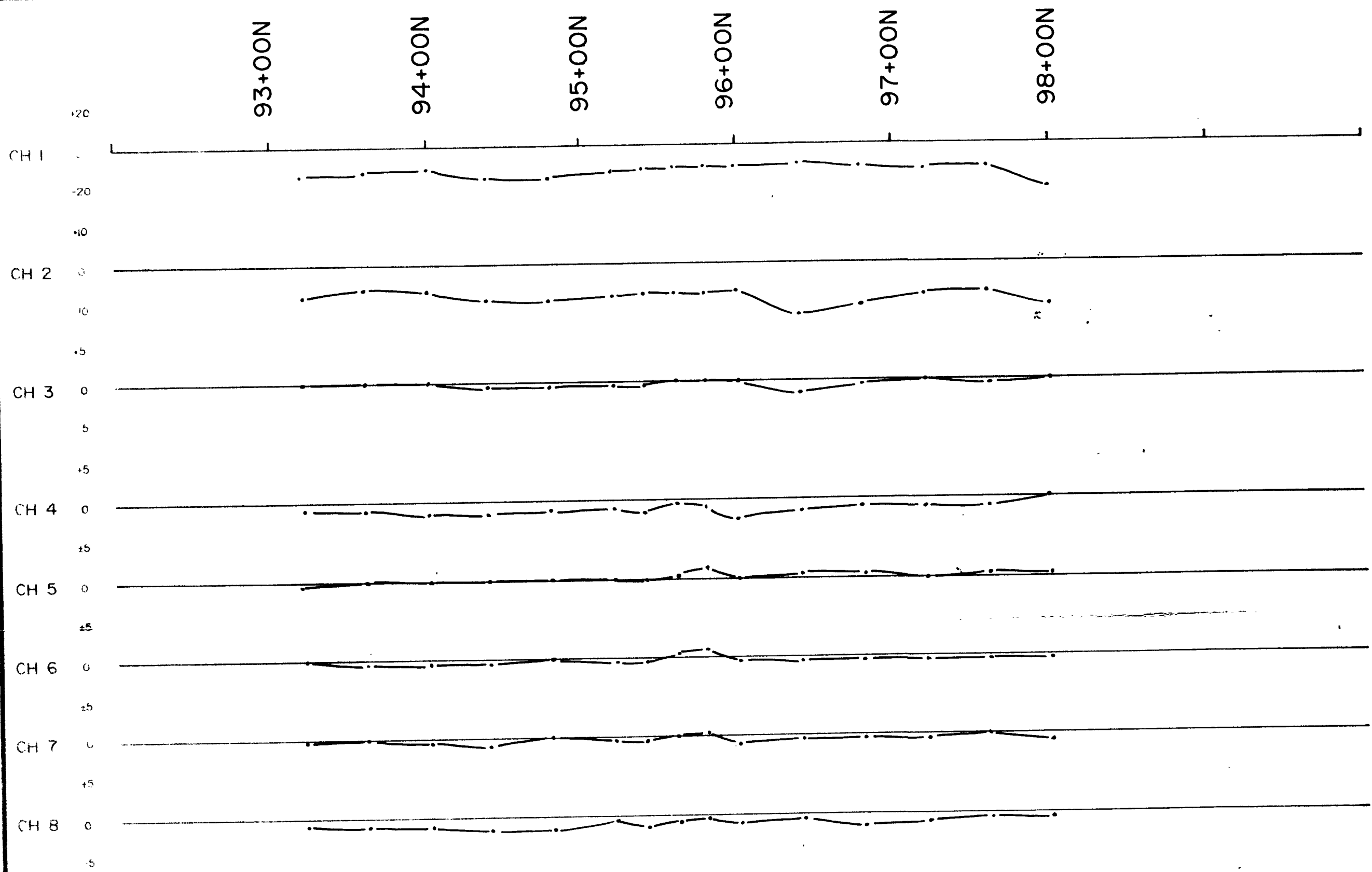
POSSIBLE WEAK, DEEP ZONE
AT 95+40mN

2.16532



	EXSICS EXPLORATION LTD.	
	P.O. Box 1880, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
CLIENT	FALCONBRIDGE LIMITED	
PROPERTY	CURRIE - BOWMAN OPTION	
TITLE	CURRIE TWP L 176+00E GRID D PEM MOVING COIL SURVEY	
Date	Feb. 1996	Scale: 1:2500
Drawn	P. Gauthier	Interp. J.C. Grant
		NTS
		Job No. E-157





2.16532



POSSIBLE DEEP ZONE AT 95+60mN

Approved

	EXSICS EXPLORATION LTD. P.O. Box 1888, P4N-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4751	
	CLIENT: FALCONBRIDGE LIMITED	PROPERTY: CURRIE - BOWMAN OPTION
TITLE: CURRIE TWP L 177+00E GRID D PEM MOVING COIL SURVEY		
Date: Feb. 1996	Scale: 1:2500	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-57



42A07NE0015 2.16532 CURRIE