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GEOPHYSICAL REPORT FOR FALCONBRIDGE LIMITED ON THE KEITH 8200 PROJECT KEITH TOWNSHIP PORCUPINE MINING DIVISION TIMMINS, ONTARIO

# RECEIVED

MAR 27 1991

MINING LANDS SECTION

Prepared By:
J.C. Grant, CET, FORGOCIATION

Fundoration With Exsics Exploration The March, 1991

JOHN GRANT

FELLOW

2.14026

#### INTRODUCTION

This report will deal with the results of a geophysical program carried out over a block of claims located in Keith Township, Porcupine Mining Division, Timmins, Ontario. The property is held 100% by Falconbridge Limited.

During the latter part of January, 1991, Falconbridge retained the services of Exsics Exploration Limited to perform the program. The purpose of the program was to verify the existence of several airborne targets on the block, in the event they signified structural trends favourable for base metal and/or metal deposition.

#### PERSONNEL

The people directly involved with the collection of all the field data were as follows:

Robin Mathieu......Operator......Timmins, Ontario

Dave Clement.......Helper......Timmins, Ontario

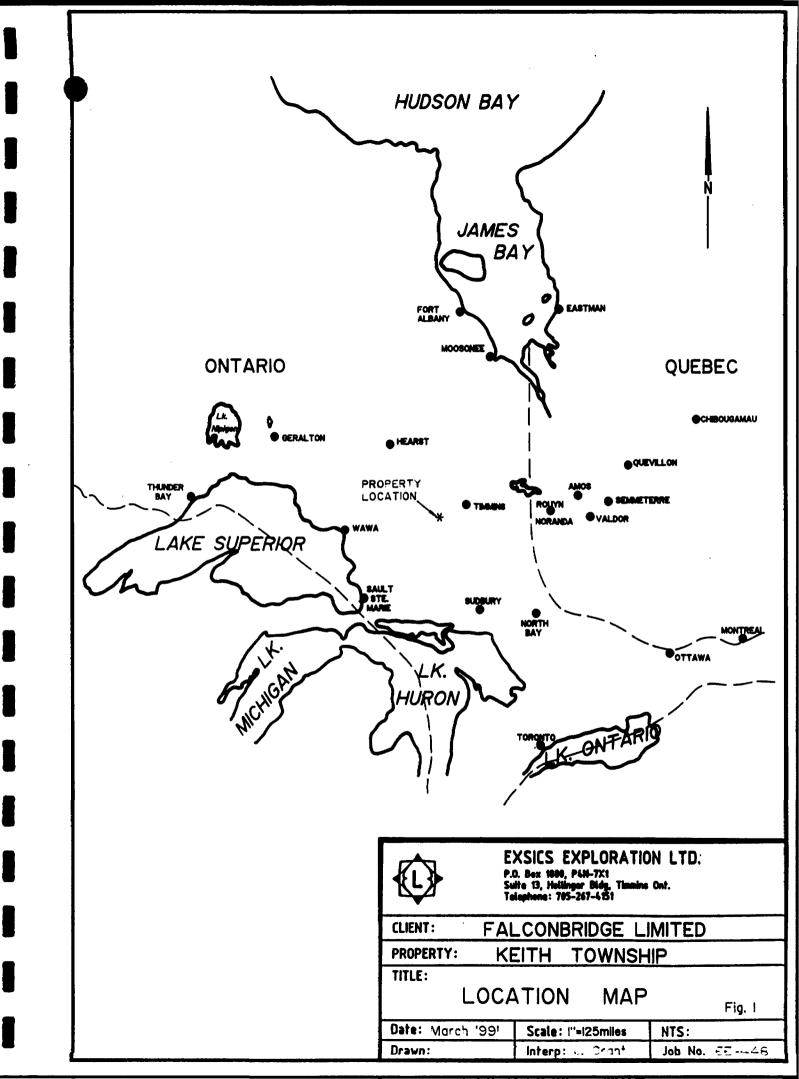
The work was performed under the direct supervision of J. C. Grant.

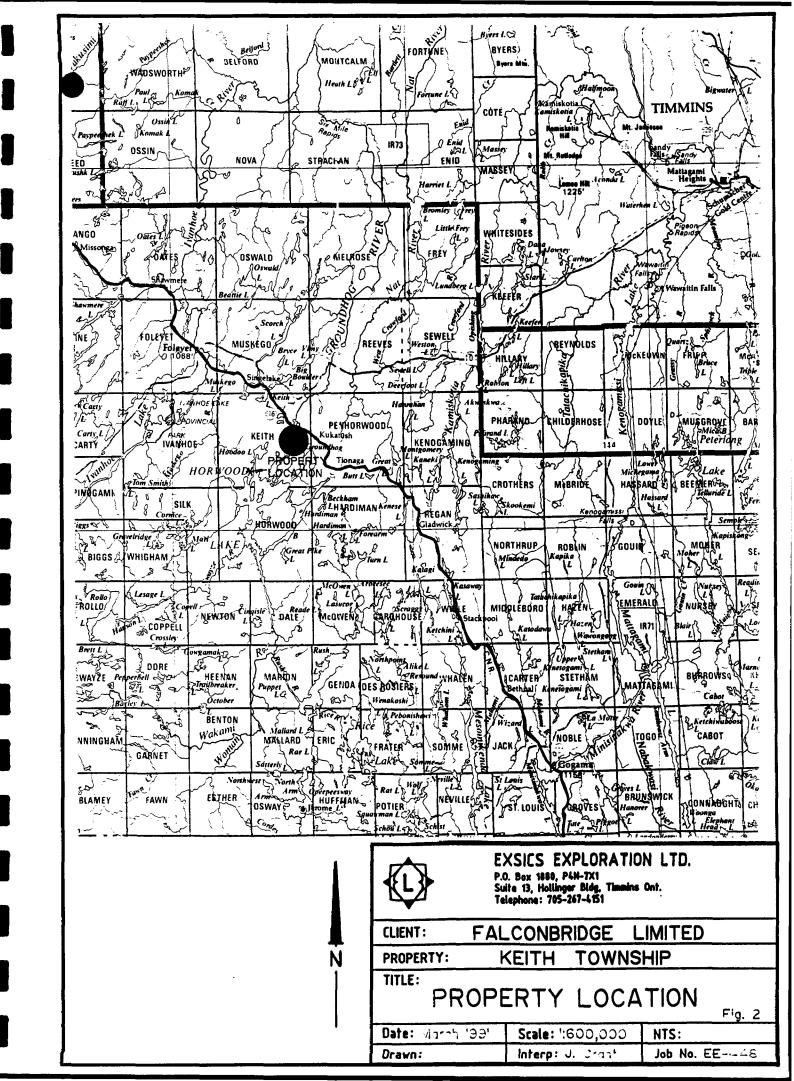
#### LOCATION AND ACCESS

The property consists of 10 contiguous unpatented mining claims all of which are located in the south central section of Keith Township, Porcupine Mining Division, District of Cochrane, Timmins, Ontario. More specifically, the block is situated on the northwest arm of Horwood Lake directly north of West Marsh Island. (Refer to Figure 1 and 2). Horwood Lake is situated approximately 21 air kilometres southeast of the Village of Foleyet, Northeastern Ontario.

Access to the property is ideal year round. The lumber companies in the area have developed an extensive network of good gravel, all weather roads into the area with the main haulage road running right to the west of the property.

The Village of Foleyet is situated approximately 100 km west of the City of Timmins, on Highway 101 West. It takes approximately 1.5 hours to drive from Timmins to the claim group.





#### CLAIM GROUP

The property consists of 10 claims all of which are located in Southern Keith Township and on the northwest shore of Horwood Lake. The numbers of the claims are as follows:

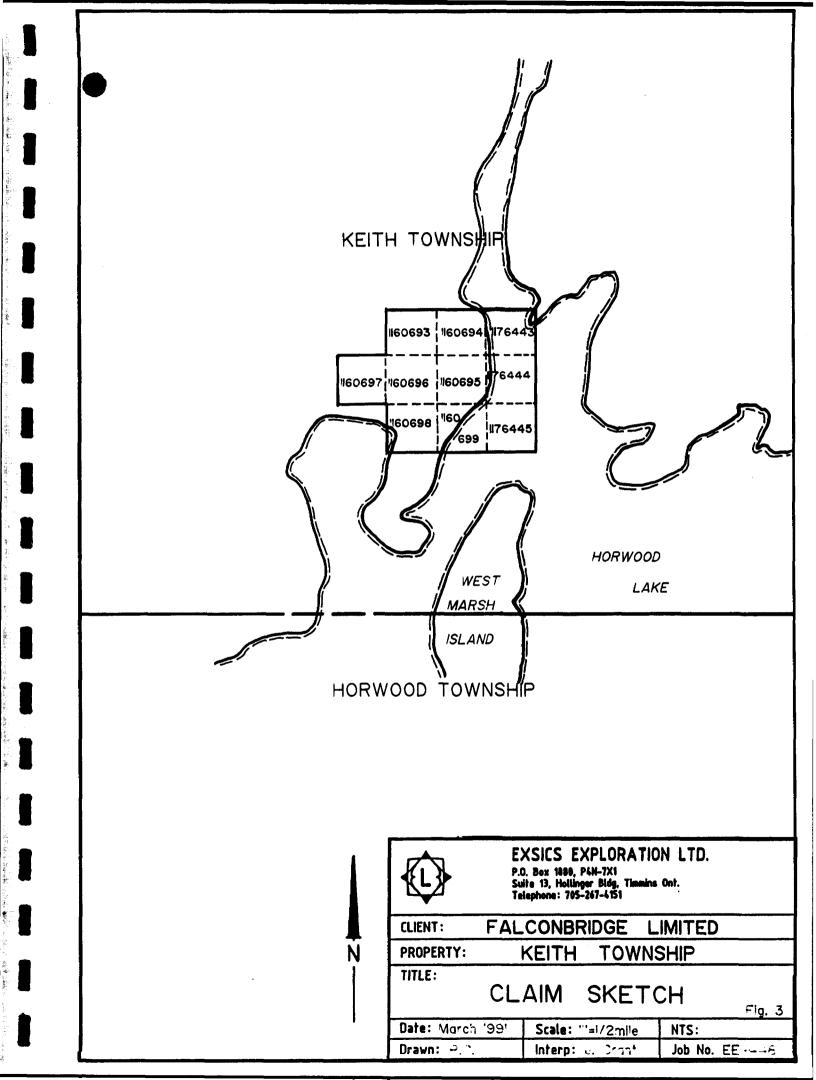
P-1160693 P-1160694 P-1160695 P-1160696

P-1160697 P-1160698 P-1160699 P-1176443

P-1176444 P-1176445

TOTAL: 10 Claims

Refer to Figure 3 of this report, copies from MNDM Plan Map G-3238, Keith Township.



### REGIONAL AND PROPERTY GEOLOGY

The property is generally underlain by mafic to intermediate metavolcanics comprised of basalts to andesitic flows.

Regionally the township has a number of sulphide iron formations, graphitic-horizons as well as several gold occurrences. The northern section of the township has a bank of east-west metasediments interlaced with rhyolitic and dacite flows. There are also several areas of ultramafic intrusives which appear to have been faulted and folded by dikes and similar cross-structures. There are also several areas of granite intrusives.

#### LINECUTTING PROGRAM

A detailed metric grid was first cut over the property using a line spacing of 100 meters and a station interval of 20 meters. This grid would provide the control for the follow-up geophysical program and later for spotting drill targets.

#### GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey run in conjunction with a horizontal loop, electromagnetic survey.

#### Magnetic Survey:

This survey was completed using the EDA Omni IV System. Specifications for this system can be found as Appendix B of this report.

This unit is rugged compact portable instrument designed specifically for field operation. The unit is extremely accurate and flexible. It contains a microprocessor and associated circuitry for monitoring, storing and processing data.

For this project, two Omni IV units were used in the following manner. One unit was set up at a fixed location in the base station mode where it measures and stores in it's memory the diurnal variations in the earth's magnetic field. Readings were taken automatically at intervals of 30 seconds. The memory has a capacity of 5000 data blocks.

A field unit was also used and it was tuned to the same reference field as the base unit and at the same location. When the two units are connected together, the base unit can correct

and dump the total field measurements. These corrections made are for diurnal variations and reference field values.

For this particular survey, a reference field of 58500 gammas was used throughout the period.

Also, a background of 58000 gammas has been removed from each reading for ease in plotting purposes only. The data was then contoured at 25 gamma intervals wherever possible.

This magnetic contour map is included in the back pocket of this report.

#### Electromagnetic Survey:

This survey was completed using the Apex MaxMin II System. Specifications for this unit can be found as Appendix A of this report.

The MaxMin II is a two-man continuously portable EM system. It is designed to measure both the vertical and horizontal inphase (IP) and quadrature (QP), components of the anomalous field from electrically conductive zones. More accurately, the directions of the measured components are perpendicular and parallel to the mean slope between the transmitting coil (Tx) and the receiving coil (Rx). The plane of the transmitter is kept

parallel to the mean slope between the transmitter and receiver at all times. This means that the MaxMin is in effect a horizontal loop (HL) system, when the receiver measures anomalous components perpendicular to the mean slope between the coils.

This system has the following principal features designed into it:

- 1) Five system frequencies of 222, 444, 888, 1777 and 3555 Hz to deal effectively with a wide range of overburden and bedrock conductivities.
- 2) Several transmitter, receiver operations 50, 100, 150, 200 and 250 meters to cope with a wide range of problems from search for large deep conductive zones to the resolution of shallow, parallel conductive zones.
- 3) Good intercom system for operator co-ordination.
- 4) Warning lights to indicate invalid readings.
- Lightweight portability to reduce operating costs.

For this survey, a coil separation of 150 meters was used between the two operators. This separation would result in a theoretical search depth range of 75 to 80 meters with a sideseeking ability of 75 meters on both sides of the line of survey.

The collected data is taken at the mid-point between the two operators which would account for the 75 meter gaps at the ends of each line.

The collected data was then plotted onto base maps, one for each frequency, and then profiled at 1 cm to  $\pm$  20%. These base maps are included in the back pocket of this report.

#### SURVEY RESULTS

The electromagnetic survey was successful in outlining one major feature and several minor zones over the survey grid.

These zones will be discussed separately and in detail below:

Zone A:

This represents the most predominant feature on the grid. It strikes east to northeast across lines 10000ME to 11100ME and continues off of the survey grid to the northeast. The zone represents a good legitimate bedrock conductor situated at a depth range of 15 to 37 meters and appears to be deepening to 65 meters to the northeast. The conductivity ranges from 3 to 12 mhos and it is dipping slightly to the north. The strongest portion of the zone lies between lines 10300ME and 10500ME.

The zone has a somewhat spotty magnetic correlation with the western and central sections grading to a moderate broad signature to the east.

The spotty highs could represent sulphide concentrations along the zones strike length. However, caution is advised when drilling the zone especially in the vicinity of line 10300ME and 10400ME as there appears to be a definite cross-structure present. This cross-structure could be dike related possibly fault controlled.

A second questionable response was weakly noted striking northeast across lines 10400ME to 10600ME. This feature may relate to an airborne target on strike to the southwest.

However, further work is required to better define the target.

The magnetics for the same area show a moderate spot low associated directly with the airborne target. A second cross-structure may also be evident running northwest across lines 11000ME/9500MN to L10400ME/10300MN. This cross-structure, in turn, appears to have been cut by a north-south structure in the vicinity of line 10800ME.

The weak EM response, paralleling the main feature, to the north, may in fact be indicative of the down dip extension of the main zone. However, it may also represent a weak, separate

parallel zone unrelated to the main zone. Magnetically it is situated between the predominant cross-structure to the west and a bullseye type high to the east.

The fourth and final EM response is a weak zone situated across lines 11000ME to 11100ME and 9760MN. It is entirely situated out in Horwood Lake and may, in fact, relate to lake bottom sediments. This zone should not be ruled out if drilling returns favourable geology or sulphides. Magnetically the zone is quiet.

#### RECOMMENDATIONS AND CONCLUSIONS

Certainly the program was successful in locating and outlining the airborne targets. The main feature represents a good bedrock target well within the search depth capabilities of the survey.

The increase in depth and mho value of the response on line lll00ME may suggest the target strikes as far as another airborne target situated out in the lake. At this point, and until the main zone is drilled, the zone need not be traced further.

The isolated parallel EM zones are questionable at this writing since they require further follow-up to enhance them.

If drilling of the main zone returns interesting geological structure or ore material, then certainly they would be elevated in priorities.

Should follow up surveys be entertained, I would suggest a wider coil separation of 200 meters or a large loop Deep EM survey.

Respectfully Submittegocia

FGAC

EFFOM

John C. Grant,

#### CERTIFICATE OF QUALIFICATIONS

- I, John Charles Grant do hereby certify:
  - that I am a geophysicist and reside at Lot 2
     Martineau Avenue, Kamiskotia Lake, Timmins,
     Ontario.
  - 2. that I am a Fellow of the Geological Association of Canada.
  - 3. that I am a member of the Certified Engineering Technologist Association.
  - 4. that I graduated from Cambrian College of Applied Arts and Technology, Sudbury Campus in 1975 with an Honour's diploma in Geology Technology.
  - 5. that I have practised my profession continuously for 16 years.
  - 6. that my report on the KEITH 8200 PROJECT, KEITH TOWNSHIP, for FALCONBRIDGE LIMITED, is based on work carried out under my supervision.
  - 4. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

JOHN GRANT

ELLOW

Dated this 14th day of March, 1991 at Timmins, Ontario

John C. Grant, C.E.T., F.G.A.C.

APPENDIXA

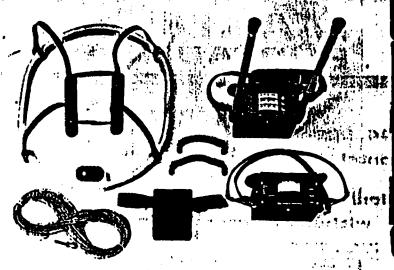
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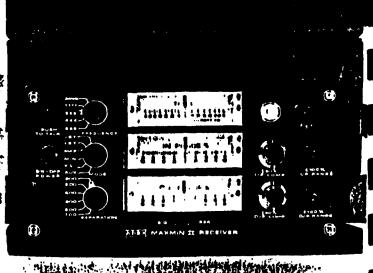


# MAXMIN-II PORTABLE EM

- # 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, 800 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 plans and receiver coil plane horizontal (Mex-coupled; Horizontal-loop mode). Used with refer cable.

> MIN: Transmitter collplane horizontel and receiver coil plane vartical (Min-coupled mode). Used with reference cable.

> V.L.: Transmitter coll plans vertical and receiver coil plans hortzontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coll Beparations:

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.

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

Readouts:

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

Scale Ranges:

In-Phase: #20%, #100% by push-

button switch.

Quadrature: #20%, #100% by push-

button switch.

Tilt:

±75% slope.

Null (V.L.):

Sensitivity edjustable by separation switch.

Readability:

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

Trada British 🕏

Repeatability:

±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.

Transmitter Output: -

222Hz : 220 Atm<sup>2</sup> 444Hz : 200 Atm<sup>2</sup>

888 Hz : 120 Atm<sup>2</sup>

- 1777Hz: 60 Atm<sup>2</sup> - 3555Hz : 30 Atm<sup>2</sup>

Receiver Satteries: SV 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 apecify.

Volce Links

Built-in Intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, vis reference cable.

Indicator Lights:

Built-in signal and reference werning light**s to indicate err**oneous readings.

**| Temperature Range: -40°C to +60°C (-40°Fto+140°F)** 

Receiver Weight: 8kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping

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

Specifications subject to change without notification

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

Cebles: APEXPARA TORONTO Phone: (416) 495-1612

Telex: 06-966773 NORDVIK TOR

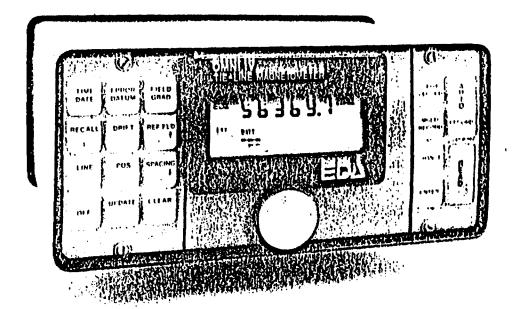
APPENDIX B

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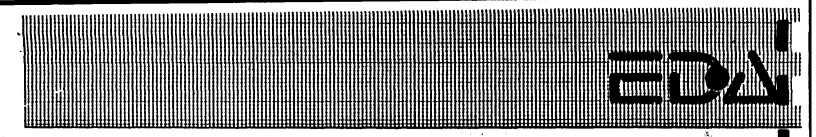
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## **OMNI IV's Major Benefits**

- 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 ..... Two simultaneous input dipoles.

Input Voltage (Vp) Range . . . . . . . . . 40 microvolts to 4 volts, with automatic ranging and

overvoltage protection.

Chargeability Resolution . . . . . . . . . . 1 %.

Chargeability Accuracy ..........0.3% typical: maximum 1% over temperature range

for Vp > 10 mV.

Automatic SP Compensation  $\dots$   $\pm$  1 V with linear drift correction up to 1 mV/s.

Input Impedance . . . . . . . . . . . . . . . . 1 Megohm.

Sample Rate .....10 milliseconds.

Automatic Stacking . . . . . . . . . . 3 to 99 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 ...... 100 ohm to 128 kilo-ohm.

Compatible Transmitters . . . . . . . . Any time domain waveform transmitter with a pulse

duration of 1 or 2 seconds and a crystal timing

stability of 100 ppm.

Programmable Parameters . . . . . . . Geometric parameters, time parameter, intensity of

current, type of array and station number.

display protected by an internal heater for low

temperature conditions.

RS-232C Serial VO Interface ....... 1200 baud, 8 data bits, 1 stop bit, no parity.

maximum supply current of 70 mA and auto power

save.

Operating Environmental Range . . . . - 25°C to +55°C; 0-100% relative humidity;

weatherproof.

Storage Temperature Range .....-40°C to +60°C.

Weight and Dimensions . . . . . . . . . . 5.5 kg, 310x230x210 mm.

Standard System Complement . . . . . Instrument console with carrying strap, batteries and

operations manual.

Available Options . . . . . . . . . . Stainless steel transmitting electrodes, copper

sulphate receiving electrodes, alligator clips, bridge leads, wire spools, interface cables, rechargeable

batteries, charger and software programs.

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

In USA. EDA Instruments Inc. 5151 Ward Road, Wheat Ridge, Colorado USA 80033 4303) 422 9112 APPENDIX C





900

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Section 159 Cedar Street, 4th Floor Sudbury, Ontario P3E 6A5

Telephone: (705) 670-7264 Fax: (705) 670-7262

Your File: W. 9160. 00114, 115 Our File: 2. 14026

June 13, 1991

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 287

Dear Sir/Madam:

RE: Notice of Intent dated May 13, 1991 for Geophysical (Electromagnetic and Magnetometer) Surveys on mining claims P. 1160693 et al. in the Township of Keith.

The assessment work credits, as listed with the above-mentioned Notice of Intent have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

Ron. C. Gashinski,

ROM C Gashushi

Provincial Manager, Mining Lands

Mines & Minerals Division

CDS/jl

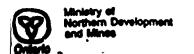
Enclosures:

cc: Falconbridge Limited Timmins, Ontario

Assessment Files Office Toronto, Ontario

Exsics Exploration Ltd. Timmins, Ontario

Resident Geologist Timmins, Ontario

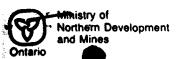


Technical Assessment Work Credits

	2.14026
Dote	Mining Recorder's Report of
May 13/91	W.9160.00114 115

Falconbridge Limite	. De
Younghip or Area	
Keith Township	
Type of survey and number of Assessment days eredit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 20.0 days	P.1160693-696 incl.
Magnetometer 4.0 _ 0 days	1160698-699
	1176443-445 incl.
Rediometric deys	
induced polerizationdays	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geologicaldays	
Geochemicaldeys	
Man days 🗌 Airborne 🗌	
Special provision 🔀 Ground 😿	
Credits have been reduced because of pertial	·
coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
and the state of t	
Special credits under section 77 (16) for the following n	nining claims
P.1160697: 40 days Magneto	meter
15 days Electro	
	j
Note: Credits have been re	duced because of partial coverage.
No credits have been allowed for the following mining o	laims
not sufficiently covered by the survey	Insufficient technical deta filed
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The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 80.



Mining Act

## DOCUMENT No. W 9160. 00114

4 .00115

Report of Work

(Geophysical, Geological and Geochemical Surveys)

Instructions

- Please type or print.

Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

If number of mining claims traversed exceeds space on this form, attach a list,

- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Type of Surve	• • •					Mining Division		Township				i
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OFFICE USE ONLY

837 (85/12)

Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

2 · 14026

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Township or Area NEIT	TIC, ELECTROMAGNETIC IS TOWNSHIP ONBRIDGE HOMITED	MINING CLAIMS TRAVERSED
Time	nids, ONT.	P- 1/60693
Survey Company Ecsic	•	
Author of Report wo Ho	C. GRANT.	(prefix) (number)
Address of Author Box /	880, Trommas, Car.	1160695
Covering Dates of Survey	4m 5/9/ - MAR 13/9/ (linecutting to office)	
Total Miles of Line Cut	The state of the s	1140696
Total Wiles of Line Out		1160697
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical per claim	1160698
ENTER 40 days (includes line cutting) for first	-Electromagnetic 20 -Magnetometer 70	1176443
survey.	-Radiometric	1/76444
ENTER 20 days for each	-Other	1176445
additional survey using	Geological	
same grid.	Geochemical	
AIRBORNE CREDITS (Special p	rovision credits do not apply to state furyers)	
	nagnetic Radiometric ter days per claim)	•
DATE: MAR 13/9/ SIG	NATURE: Author of Report of Agent's	
Res. Geol. Ou	alifications 2.5347	
Previous Surveys	lamications	
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		TOTAL CLAIMS

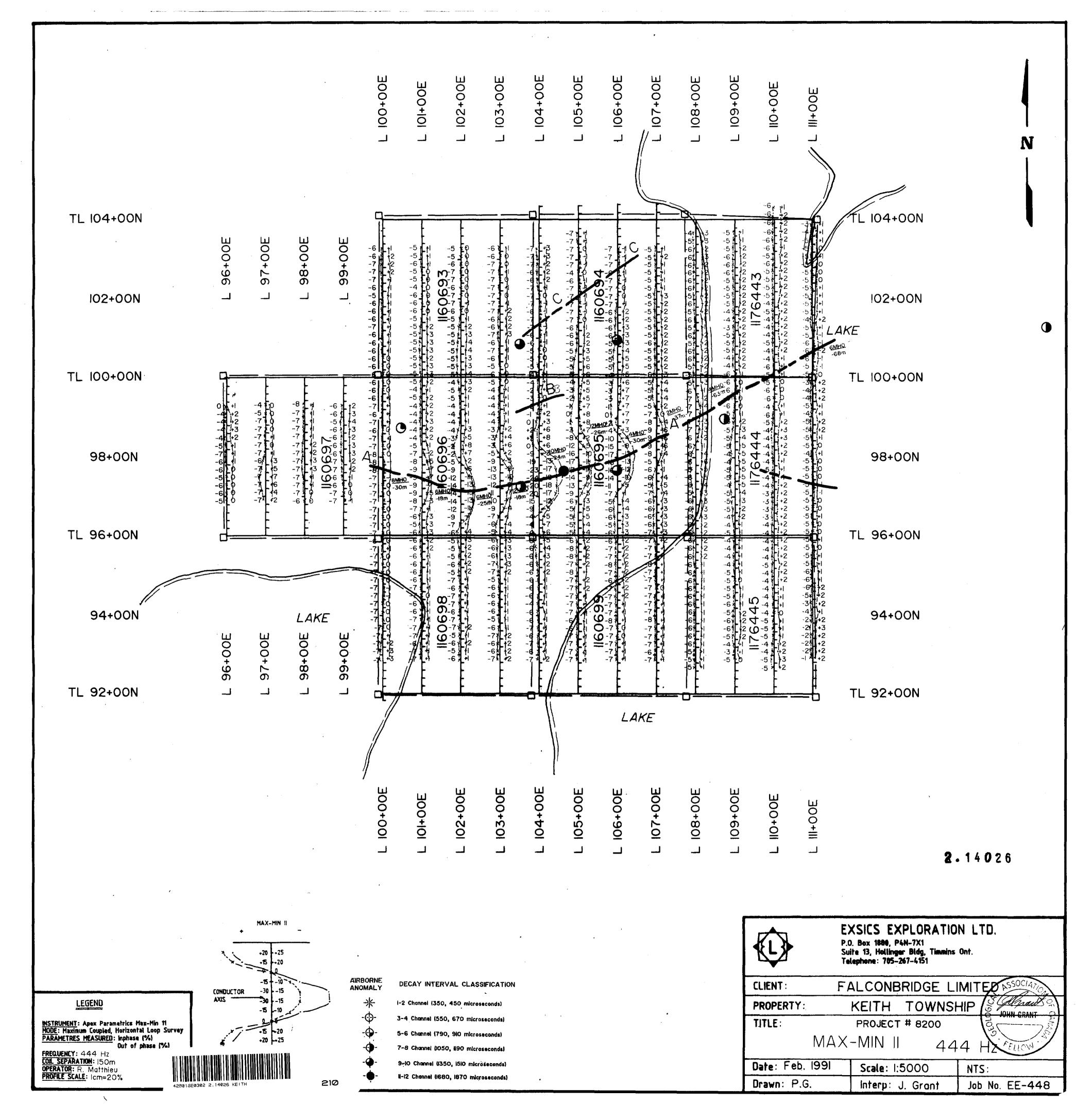
## **GEOPHYSICAL TECHNICAL DATA**

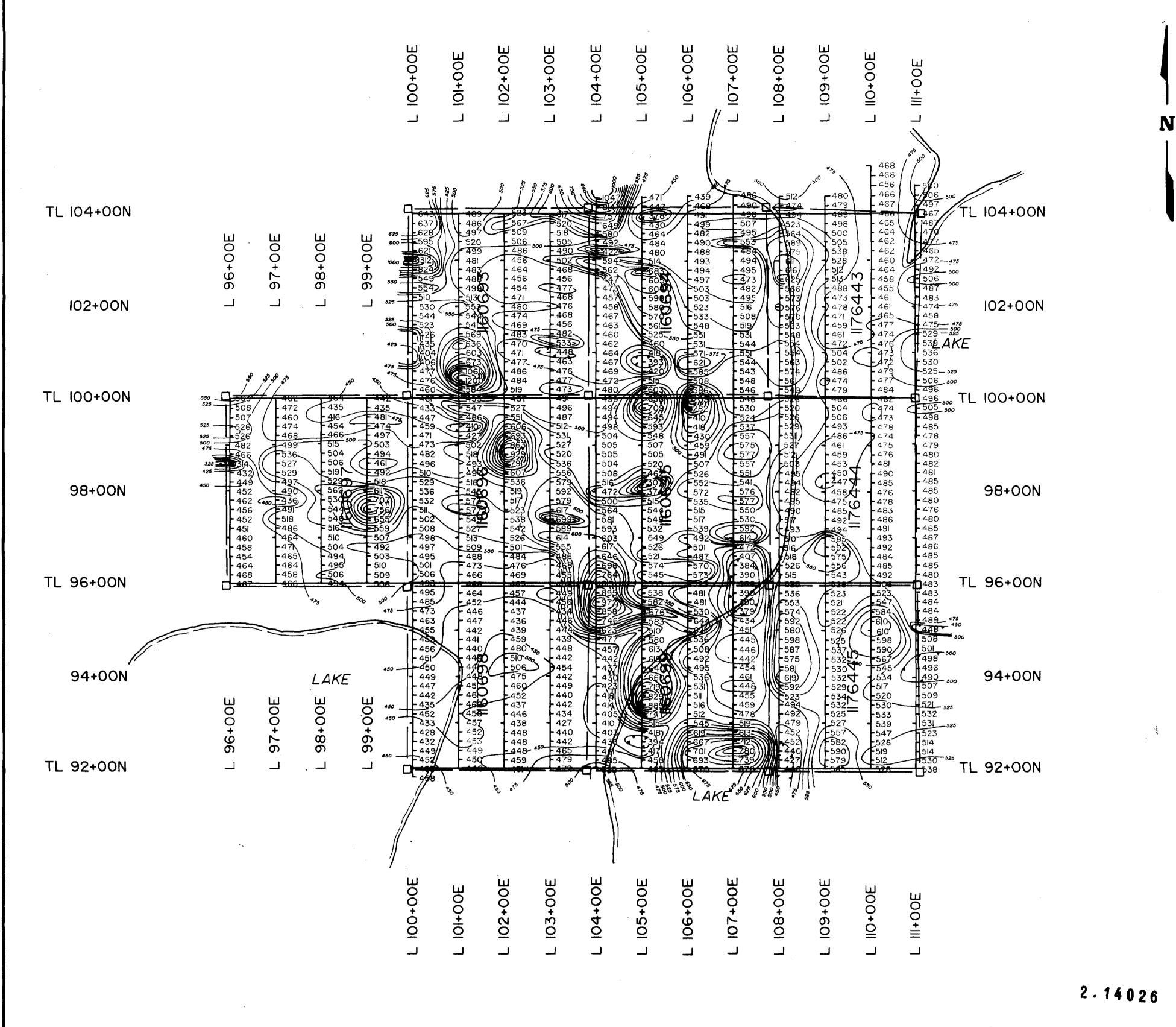
GROUND SURVEYS - If more than one survey, specify data for each type of survey

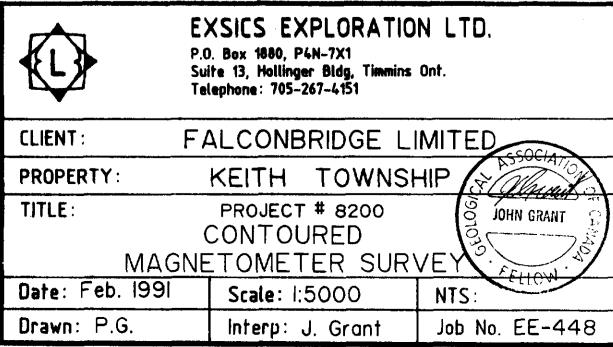
દુઉ	· · · · ·						
Nu	mber of Stations	1100	Number of Readings	5500			
			Line spacing				
Pro	ofile scale	1cm = 20	Ÿo ·				
Co	ntour interval	25 GAM.	MAS.				
		·					
9	Instrument	+ -	101 10 545.	, EM			
Ce H	Accuracy - Scale constant ± · 5 3 4 MM 45.  Diurnal correction method RASE STATION CONTROL						
AGE							
			SEC RECORD	· _			
			THE GRID,				
		-,20 58,5	00 gammas.				
		11-					
<u>)</u>			Min I 5457				
i	_		VER.				
AG	Coil separation	150 m.					
WO	Accuracy	± / 70.					
XI.	Method:		☐ Shoot back ☐ In line				
图	Frequency	1777142, 6	PECIFY V.L.F. station)  PUAARATURE				
또	Parameters measured	1 INPURSE	1 QUARRATURE	PHASE.			
	Instrument						
	Scale constant						
	Corrections made						
AVI							
GRAVI	Base station value and lo	cation					
Ú-		:					
t t	Elevation accuracy	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	210 (411011 410011-410 )	Marie	and the second s				
-	Instrument		,				
· i	Method		☐ Frequency Dor	nain			
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L	Type of elections						

TYPE OF DOCUMENT
PATENT, SURFACE & MINING RIGHTS
" SURFACE RIGHTS ONLY
MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCILOC
RESERVATION
CANCELLED
SAND & GRAVEL
* REMOTE TOURIST CAMPS
MOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8,
ALANDS ACT REAL 1970, CHAP, 380, SEC. 63, SUBSEC. 4.
<del></del>









LEGEND

Datum Subtracted: 58,000

Instrument: EDA OMNI-IV Parametres Measured: Earth's total magnetic field Accuracy: +/- I nano-tesias Diurnals: Corrected by base station recorder Contour Interval: 0,25,50,75,100,125 Reference Field: 58,500



