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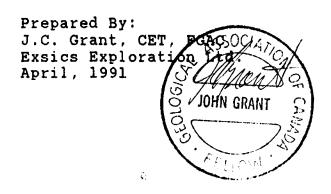
MAY 28 1991

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MINING LANDS SECTION

GEOPHYSICAL REPORT FOR FALCONBRIDGE LIMITED ON THE IVANHOE #8202 PROJECT IVANHOE TOWNSHIP PORCUPINE MINING DIVISION

2.14148





42801NW0087 2.14148 IVANHOE

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#### INTRODUCTION

Falconbridge Limited holds a 100% interest in 26 contiguous, unpatented mining claims located in the east-northeast corner of Ivanhoe Township, Porcupine Mining Division, Foleyet, Ontario.

During the months of February and March, 1991, Falconbridge Limited retained the services of Exsics Exploration Limited to perform a linecutting and geophysical program on the block.

The intent of this program was to locate and outline geological structure which would be a favourable environment for base metal and/or precious metal deposition.

This report will deal with the results of this program.

#### PERSONNEL

The field crew who were directly responsible for collecting and tabulating the raw data were as follows:

Robin Mathieu.....Timmins, Ontario Dave Clement.....Timmins, Ontario Paul Edwards.....Timmins, Ontario The work was carried out under the supervision of J. C.

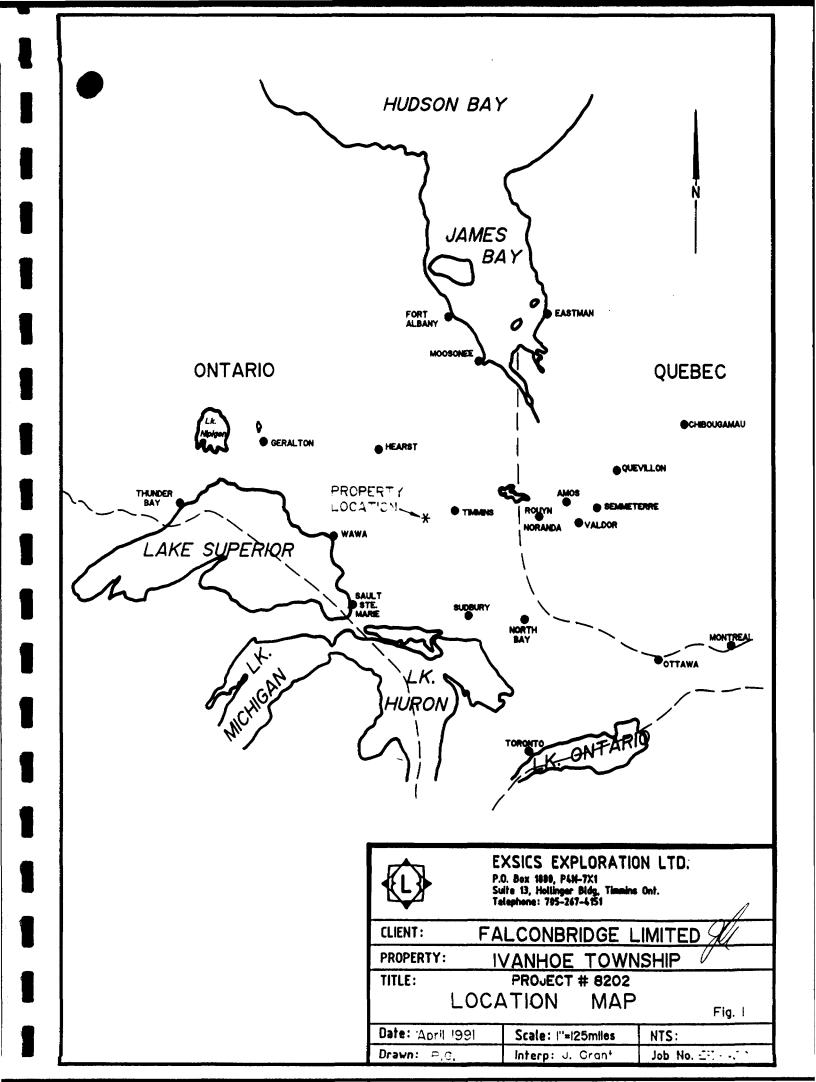
Grant.

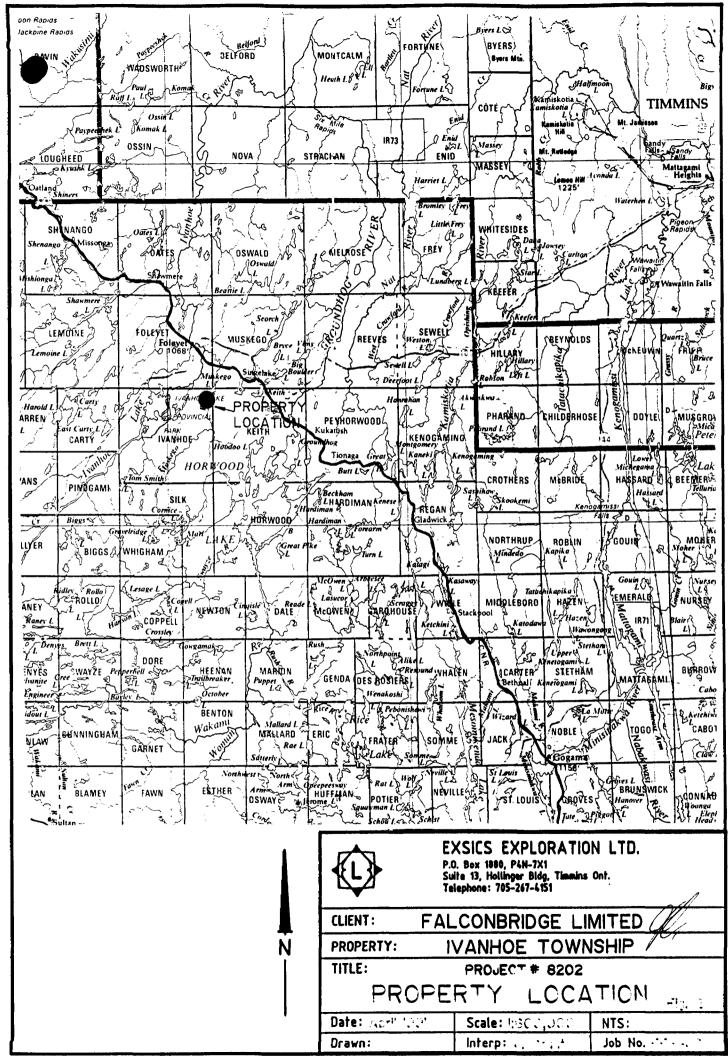
#### LOCATION AND ACCESS

The Ivanhoe #8202 Project is located in the northeastern section of Ivanhoe Township and northwestern corner of Keith Township, Porcupine Mining Division, District of Sudbury, Northeastern Ontario.

More specifically it is situated just south of Muskego Lake with the two most northeasterly claims located in Keith Township. The entire block is located approximately 10 kilometres southsoutheast of the Village of Foleyet. Refer to Figures 1 and 2 of this report.

Access to the property was ideal throughout the survey period. Highway 101 west travels from Timmins to Foleyet. A good secondary gravel road provides excellent access to the north and eastern section of the property. This gravel road was kept open all winter because of logging operations in the area. Travel time from Timmins to the property is approximately 1.2 hours, one way.





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#### CLAIM GROUP

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The property consists of 26 contiguous unpatented mining claims located in the northeast section of Ivanhoe Township. The claim numbers are as follows:

Ivanhoe Township:

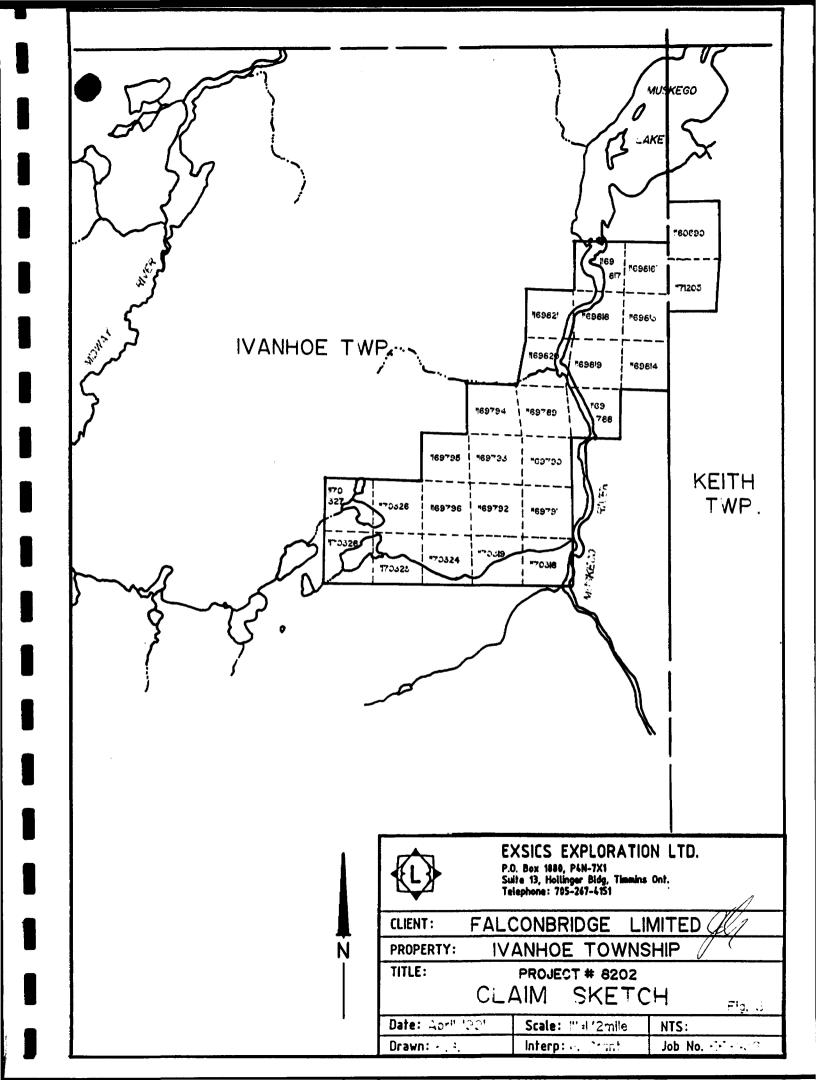
P-1169814	to	P-1169821	Inclusive	8
P-1169788	to	P-1169796	Inclusive	9
P-1170324	to	P-1170328	Inclusive	5
P-1170319	to	P-1170318	Inclusive	_2
			TOTAL	24

Keith Township:

P-1160690,	P-1171205	_2
	TOTAL	2

### TOTAL BLOCK.. 26 Claims

Refer to Figure 3 of this report which has been copied from MNDM Plan Maps # G-3238, Keith Township, and # G-1102 Ivanhoe Township.



#### GENERAL GEOLOGY

Generally, Ivanhoe Township is underlain by mafic to intermediate metavolcanic flows comprised of basalts and andesites. A graphitic sulphide occurrence has been noted in the northeastern section. Other flow material consists of ultramafics and granites.

#### PROPERTY GEOLOGY

The property itself is underlain mainly by the basalts and andesitic flows. However, a large ultramafic intrusive cuts into the north and northeastern section of the property. There is also a sulphide occurrence on the property which has been noted on Map 2221, Chapleau - Foleyet Sheet, Geological Compilation Series, scale of 1 inch to 4 miles.

#### LINECUTTING PROGRAM

A detailed grid was first established over the property using a line spacing of 100 meters and a station interval of 20 meters. This grid was cut to provide quality control for the follow-up geophysical program. In all, a total of 56.7 km of grid lines were established.

#### GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey run in conjunction with a horizontal loop electromagnetic survey. Both programs were completed over the entire property. The program was completed during the latter part of March and the lst week of April 1991.

#### Magnetic Survey:

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

This unit is a 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.

- 5 -

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 58430 gammas was used throughout the program. Also, for ease in plotting, a background level for 58000 gammas has been removed from each value.

The resultant data was then plotted onto a base map at a scale of 1:5000 and then contoured at 50 gamma intervals wherever possible. This contoured 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 B 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

- 6 -

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:

- 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.
- 5) Lightweight portability to reduce operating costs.

For this survey, a coil separation of 200 meters was used between the two operators. The two frequencies read were the 1777 Hz and 444 Hz channels. The data was then plotted on to

- 7 -

base maps, one map for each frequency, and then profiled at 1 cm to 20%. These profile maps are included in the back pocket of this report.

#### SURVEY RESULTS

The electromagnetic survey was successful in outlining several features over the survey grid. Each of these zones will be discussed separately and in detail below.

#### Zone A:

This feature represents the most predominant feature on the grid. The zone strikes across the entire grid and continues off of the grid to the north and south. For a better definition of the zone, all of the interpretation was done on the 444 Hz frequency.

The zone ranges in depth from 44 to 90 meters with a conductivity range of 10 to 60 mhos with an average of 30 to 40 mhos. The feature dips slightly west to near vertical.

The magnetics for the same zone shows a somewhat spotty correlation along the northern section of the target. The southern section of the zone runs along the eastern edge of what appears to be 3 areas of intrusives. These areas are readily apparent when looking at the magnetic contour map.

### Zone B:

This feature represents another major feature on the grid. The zone strikes across Lines 5200MN to 6100MN. It closely parallels Zone A and continues off of the grid to the south. This zone lies at a depth range of 36 to 70 meters with a conductivity range of 20 to 42 mhos. This feature also appears to dip slightly west to near vertical.

The magnetics also appear to be somewhat spotty along strike. It also lies along the east edge of a broad magnetic high feature. The spotty mag highs along strike may relate to areas of more sulphide concentrations.

#### Zone C:

This feature also parallels the above two zones and strikes across L5600MN to 6300MN. This feature also appears to continue off of the grid both to the north and south.

The zone lies at a depth to source of 60 to 80 meters with a conductivity range of 13 to 15 mhos. It also appears to dip slightly to the west. The zone lies along the western edge of a moderate magnetic unit. Zone D:

This feature is a short weak zone paralleling Zone A and strikes across Lines 6900MN to 7100MN. The zone may relate to a weak, narrow bedrock stringer or a zone outside the search capabilities of the survey. There does not appear to be any direct magnetic correlation.

#### RECOMMENDATIONS AND CONCLUSIONS

The surveys were successful in outlining several targets across the property which more or less correlate to the airborne targets. Enough work was done to properly define each target which would allow for accurate spotting of drill holes. Zone A, most probably relates to a graphitic horizon, however, it should be considered for drilling for positive identification. Zones B & C should also be considered in any drill program.

Another area of interest may be the magnetic bullseye in the area of Lines 7300MN to 7700MN. The magnetic activity in the northeast section of the property may in fact relate to the edge of an ultramafic intrusive slumping in and out of the area.

Respectfully Submitted,

Íohn grant FELLOW

John C. Grant, CET, FGAC

#### 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 IVANHOE PROJECT #8202, IVANHOE 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".

Dated this 23rd day of April, 1991 at Timmins, Ontario



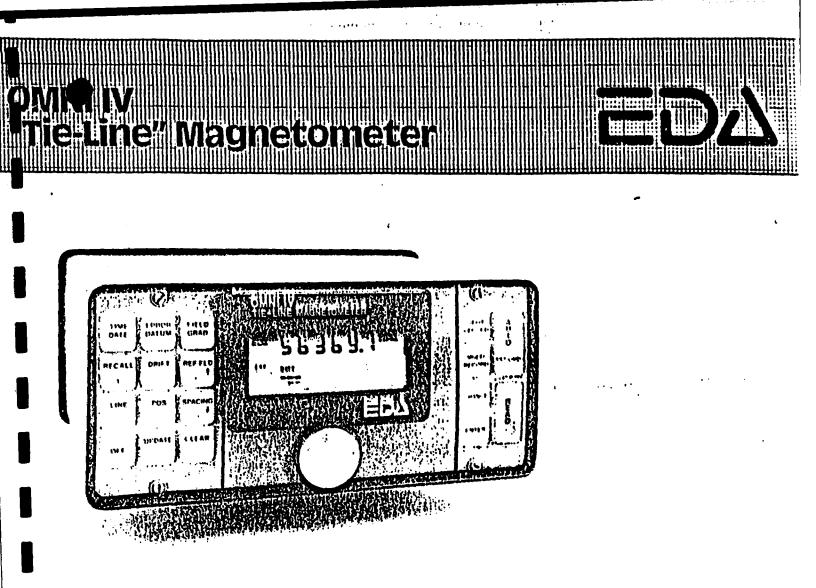
John C. Grant, C.E.T., F.G.A.C.

APPENDIX A

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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**

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Dipoles	. Two simultaneous input dipoles.
	40 microvolts to 4 volts, with automatic ranging and overvoltage protection.
Vo Resolution	. 10 microvoits.
Vp Accuracy	.0.3% typical; maximum 1% over temperature range.
Chargeability Resolution	.1%.
	.0.3% typical; maximum 1% over temperature range for Vp>10 mV.
Automatic SP Compensation	$\pm$ 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	. Two line, 32-character alphanumeric liquid crystal display protected by an internal heater for low temperature conditions.
Memory Capacity	. 600 sets of readings.
RS-232C Serial VO Interface	. 1200 baud, 8 data bits, 1 stop bit, no parity.
Console Power Supply	. Six- 1.5V "D" cell disposable batteries with a maximum supply current of 70 mA and auto power save.
Operating Environmental Range	<ul> <li>- 25°C to + 55°C; 0–100% relative humidity; weatherproof.</li> </ul>
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.
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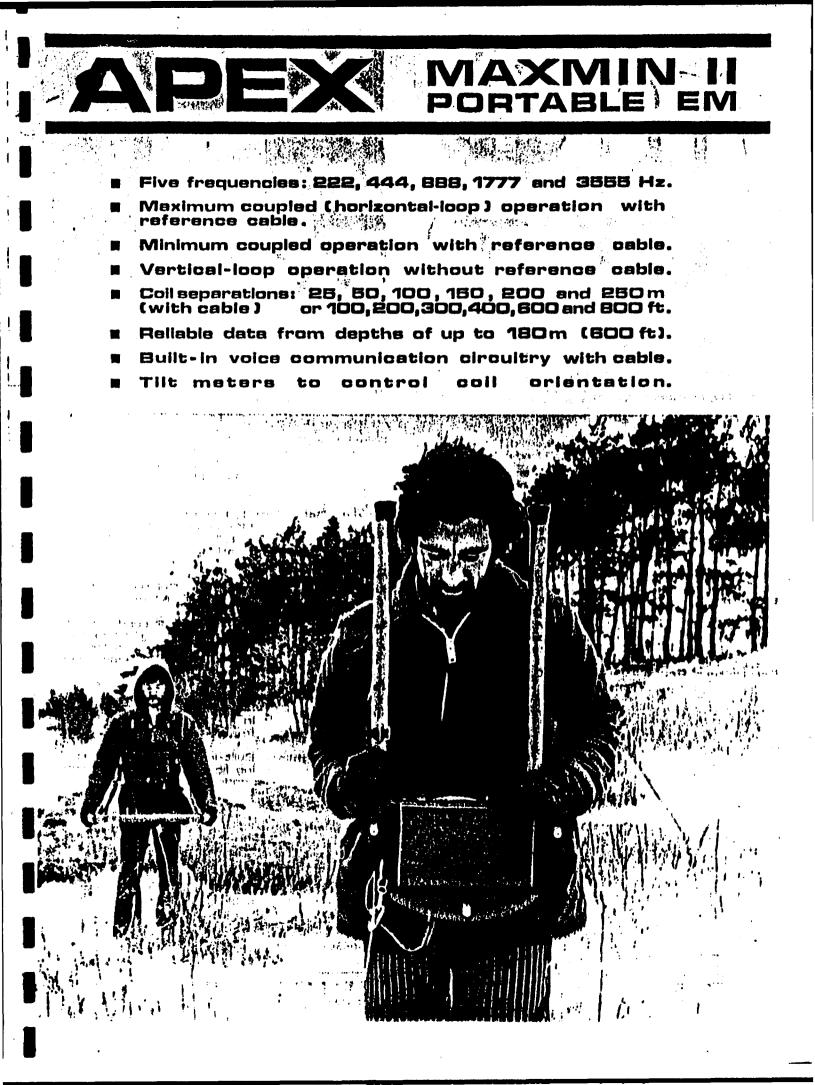
E D A Instruments Inc. 4 Thorncliffe Park Drive, Toronto, Ontario Canada M4H 1H1 Telex: 06 23222 EDA TOR Cable: Instruments Toronto 14161 425 7800

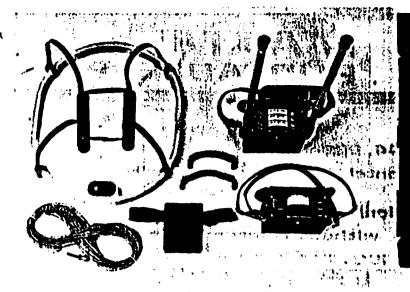
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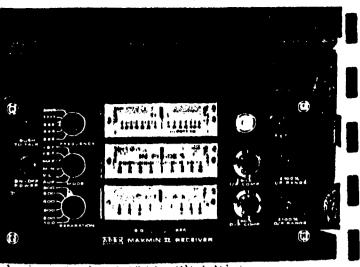
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### **SPECIFICATIONS:**

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Frequencies:	222,444,688,1777 and 3555 Hz.	Repeatability	±0.25% to ±1% normally, depending on conditions, frequencies and coil	
Modes of Operation:	MAX: Transmitter coil plans and re-		separation used.	-
	ceiver coll plane horizontal		· ·	
	(Mex-coupled; Honizontal-loop	Transmitter Output:	- 222Hz:220Atm <sup>2</sup>	
	mode). Used with refericable.		<ul> <li>444Hz : 200 Atm<sup>2</sup></li> </ul>	<b></b>
	MIN: Trensmitter collplans honzon-		- 868 Hz : 120 Atm <sup>2</sup>	-
	tal and receiver coil plana ver-		- 1777Hz : 60 Atm <sup>2</sup>	
	tical (Min-coupled mode).	,	- 3555Hz : 30 Atm <sup>e</sup>	
	Used with reference cable.			
	V.L. I Transmitter collplane verti-	Receiver Batteries	BV trens. radio type batteries (4). Life: approx. 35hrs. continuous du-	
	cat and receiver coll plane horl-	27 - C C C C C C C C	ty (alkaline, 0.5 Ah), less in cold	,
· · · ·	zontal (Vertical-loop mode).		weather.	
	Used without reference		Wearings.	
i.	cable, in parallel lines,	Transmitter		
		Battaries	12V 8Ah Gel-type rechargeable	
Coll Separations:	25,60,100,150,200 & 250m (MMI)		battery, (Charger supplied).	
•	or 100, 200, 300, 400, 800 and	de la companya de la		
· .	800 ft. (MMIF).	Reference Cable :	Light weight 2-conductor teflon	
	Coil separations in VL.mode not re-		cable for minimum friction. Unshield-	
	stricted to fixed values.		ed. All reference cables optional	·_
			at extra cost. Please spacify.	
Parameters Head!	- In-Phase and Quadrature compo-			
	nents of the secondary field in	Volce Link:	Built-In intercom eystem for	-
	MAX and MIN modes.		voice communication between re-	ł
	- Tilt-angle of the total field in V.L.		ceiver and transmitter operatora	
	mode.		in MAX and MIN modes, via re- ference cable.	
Readouts:	- Automatio, direct readout on	Indicator Lighter	Built-In signal and reference warm-	
	90mm (3.5") edgewise matera - in MAX and MIN modes, No null-		Ing lights to indicate erroneous	
	ing or compensation hecessery.		readings.	
	Tilt angle and null in 90mm edge-	Temperature Range	-40°C to+80°C (-40°F to+140°F).	
	wise meters in ML.mode.			
Scale Ranges:	In-Phase: #20%,#100% by push-	Receiver Weighti	6kg [13 lbs.]	J
Brais Hangest	button switch.			
	Quadrature: \$20%, \$100% by push-	Transmitter Weight	13kg (2910s.)	۰.
	button switch.		Turkenik BOke (195 ins.) decord.	
•	Tilt: ±75% slope.	Bhipping Weighti	Typically BOkg (1351ba.), depend- ing on quantities of reference	
	Null (VL): Bensitivity adjustable		cable and batteries included.	
	by separation switch.		Shipped in two field/shipping cases	
Readability:	In-Phase and Guadrature: 0.25 %			
	to 0.5%; Tilt: 1%,	Specifications subjections	st to change without notification	Ľ
		r∎garrenene in internetien internetien internetien internetien internetien internetien internetien internetien Netien internetien interne		2
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	EV PARAM		LIMITED	
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Phone: (416)	495-1612 Cables: APEXPARA	TOPONTO Telex: (	08-966773 NORDVIK TOR	

# APPENDIX C

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Ministry of Northern Development \_ and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

- Ontario	File
TO BE ATTACHED AS AN APPENDIX TO T FACTS SHOWN HERE NEED NOT BE REP TECHNICAL REPORT MUST CONTAIN INTERPRET	EATED IN REPORT
	ATION, CONCLUSIONS ETC. MINING CLAIMS TRAVERSED List numerically $S = \frac{1}{(60)(690)} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$
Res. Geol Qualifications 2.5347 Previous Surveys File No. Type Date Claim Holder	1/69792 1/69793 1/69794 1/69794 1/69794 1/69795 1/69796 1/69796 1/703/8 1/1703/9

**OFFICE USE ONLY** 

# GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS – If more than one survey, specify data for	each type of survey				
St	umber of Stations 2845Nu ation interval 20 METERLi	ne spacing <u>100 M</u>				
Pr	ofile scale $\underline{\qquad}$ \underline{\qquad} $\underline{\qquad}$ $\qquad$					
	ontour interval 50 GAMMA .	_				
a	Instrument <u>EOR</u> , OMN, 10 545	TEM.				
	Instrument <u>EOR</u> , <u>OMINI</u> IN <u>SYSTEM</u> . Accuracy - Scale constant <u>±.5 9AMMA</u> Diurnal correction method <u>BASE</u> STATION <u>RECORPER</u> .					
MAGNETIC	Diurnal correction method BRSE STRTION RELORDER.					
MA	Base Station check-in interval (hours) 30 SECR					
~-1	Base Station location and value GRIA	5ET AF 58430				
	- S. Amark 5					
ot	Instrument APEx MARMIN I	SYSTEM.				
ĬIJ	Coil configuration CO PLANER					
UN	Coil separation 200 M.					
WW	Accuracy $\pm 1 ??_{o}$ .					
RO RO	Method:  Fixed transmitter  Shoot	back 🛛 In line 🖂 Parallel line				
R		1117				
ы Ш	FrequencyHT ANA 79	4 Ht				
<b>ELECTROMAGNETIC</b>	Frequency	HE station)				
ELEC	Frequency 177747 AND 44 (specify V.L.F.s Parameters measured 11084ASE (	HE Antation) DUARRATURE				
ELEC		HE station) DUARRATURE				
ELEC	Instrument	HE Intation) DUAD RATURE				
	Instrument Scale constant	HE station) DUARRATURE				
	Instrument Scale constant Corrections made	HE station) DUADRATURE				
	Instrument Scale constant Corrections made					
<u>GRAVITY</u> <u>ELEC</u>	Instrument Scale constant Corrections made					
	InstrumentScale constant Corrections made Base station value and location					
	InstrumentScale constant Corrections made Base station value and location Elevation accuracy					
	InstrumentScale constant Corrections made Base station value and location					
	InstrumentScale constant Corrections made Base station value and location Elevation accuracy					
	InstrumentScale constant Corrections made Base station value and location Elevation accuracy					
	Instrument	Frequency Domain				
GRAVITY	Instrument   Scale constant   Corrections made   Base station value and location   Base station accuracy   Instrument   Method	Frequency Domain     Frequency				
GRAVITY	Instrument   Scale constant   Corrections made   Base station value and location   Base station value and location   Elevation accuracy   Instrument   Method   Time Domain   Parameters - On time	Frequency Domain     Frequency				
GRAVITY	Instrument   Scale constant   Corrections made   Base station value and location   Base station value and location   Elevation accuracy   Instrument   Method   Time Domain   Parameters - On time   - Off time	Frequency Domain     Frequency				
GRAVITY	Instrument   Scale constant   Corrections made   Base station value and location   Base station value and location   Elevation accuracy   Instrument   Method   Time Domain   Parameters - On time   - Off time   - Delay time	Frequency Domain   Frequency   Range				
	Instrument	Frequency Domain     Frequency				

ICIDICED POLARIZATION

Type of electrode \_

MI Ministry of DOCUMENT NO. Northern Development and Mines 9160. OD175 Ontario **Report of Work** 900 Minic 'Act (Geophysical, Geological and Geochemical Su Type of Survey(s) Mining Division Township or Area reshve! Keith Porcupine May M Recorded Holder(s) ŝ F Mi romanet ίī ( Prospector's fγ ۲a۱ -21647 05 Box 1140 Address Telephone No. 5 O 67 - 11 88 2 ari Survey Company Exercise Fice, Ltd I Name and Address of Author (of Ged-Technical Report) <u>xoc</u> tari Date of Survey (from & to) 12 03 91 06 05 Mo. | Yr. Day Ontario 04 91 Box Grant 800 immins Mo. Yr. Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) **Special Provisions** Mining Claim **Mining Claim Mining Claim** Days per Claim Geophysical Prefix Number Prefix Number Prefix Number For first survey: 10.P 10 - Electromagnetic 0 q 06 795 Enter 40 days. (This includes line cutting) Ø Magnetometer 40 Ŋ Ŷ ρ For each additional survey: - Other using the same grid: ρ Ø Geological Q Enter 20 days (for each) ρ φ Geochemical Ŷ Man Days Days per Claim P Geophysical ED Complete reverse side and P Р g 8 enter total(s) RrECE D Magnetometer ٩ О 6 JUN 12 1990ther D ρ 20 в 8 2 へへ P Geological q 8 2١ MINING LANDS SECTION ρ  $\cdot g g$ RECOPDET **Airborne Credits** Days per Claim φ Note: Special provisions P Electromagnetic 0 credits do not MAY 74 1991 apply to Airborne P Magnetometer 91 Surveys. р Other 92 Ŷ Total miles flown over claim(s). Total number of Date Recorded Holder or Agent (Signature) D 26 V ٩ mining claims covered 8 91 6 May by this report of work. ertification Verifying Report of Work hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true. Name and Address of Person Certifying Box limming 40 1 ûn enge <u>nu</u>c Telephone No. Date Certified By-(Signature) 8 9 1 ku -11 88 1 Mour **Received Starp** or Office Use Only **Total Days Date Recorded** r. Recorded JA 199 C Date Approved as Recorded Provincial Manager, Mining Lands 12 2 (89/06)



Ministry of Technical Assessment Northern Development Work Credits

Falconbridge Ltd.

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	_		2.14	148	
	•		ning Reserver's		
J	une	17,			

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C TRANSPORT	
Recorded T	

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Township or Arma Lvanhoe and Keith Townships			
Type of survey and number of Assessment days predit per claim	Mining Claims Assessed		
Accisement days credit per delm Geophysical Electromagnetic 2.0 days Megnetometer 4.0 days Megnetometer 4.0 days Rediometric days Induced polarization days Induced polarization days Other days Section 77 (19) See "Mining Claims Assessed" column Geological days Geochemical days Men days [] Airborne [] Special provision [X] Ground [] Credits have been reduced because of partial	Mining Cloims Assessed P.1169814 to 820 incl. 1169788 to 796 incl. 1170318 - 319 1170324 - 325 1170328.		
coverage of claims.  Credits have been reduced because of corrections to work detes and figures of applicant.			
Special credits under section 77 (18) for the following n	nining claims		
15 days Electromagnetic P. 10 days Electromagnetic P.1 5 days Electromagnetic P.11 30 days Magnetometer P.1171 20 days Magnetometer P.1170 10 days Magnetometer P.1160	170327 60690 205, 1169821, 1170326 327.		

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

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 ellowed as follows: Geophysical + 80; Geologoosi + 40; Geochemical - 40; Section 77(19) + 80.



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. 9160.00175 Our File: 2.14148

July 17, 1991

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir/Madam:

RE: Notice of Intent dated June 17, 1991 for Geophysical (Electromagnetic and Magnetometer) Surveys on mining claims P. 1169814 et al. in Ivanhoe and Keith Townships.

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,

or Charling

Ron. C. Gashinski, Provincial Manager, Mining Lands Mines & Minerals Division

DM/jl Enclosure:

> cc: Falconbridge Ltd. Timmins, Ontario

Exsics Exploration Ltd. Timmins, Ontario

Resident Geologist Timmins, Ontario ✓Assessment Files Office Toronto, Ontario

