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#### GEOPHYSICAL REPORT

#### ON THE

#### CLEAVER TOWNSHIP PROPERTY

#### CLEAVER TOWNSHIP

#### LARDER LAKE MINING DIVISION

FOR

#### COMINCO LIMITED

Prepared by: J.C. Grant CET FGAC Exsics Exploration April 000 JOHN GRANT V  $\boldsymbol{C}$ FELLOW



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#### LIST OF FIGURES

Figure	1	Location Map
Figure	2	Area Location Map
Figure	3	Claim Group
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## LIST OF BASE MAPS IN BACK POCKET

MAP	NO.1Conte	our	ed Ma	g Ma	ap			
MAP	NO.2	Ηz	Max 1	Min	Profile	Map	100M	Sep.
MAP	NO.31777	Ηz	Max 1	Min	Profile	Map	100M	Sep.
MAP	NO.4	Ηz	Max 1	Min	Profile	Map	100M	Sep.
MAP	NO.5	Ηz	Max 1	Min	Profile	Map	150M	Sep.
MAP	NO.61777	Ηz	Max I	Min	Profile	Map	150M	Sep.
MAP	NO.7	Нx	Max 1	Min	Profile	Map	150M	Sep.

#### APPENDICES

Appendix	AEDA Omni	<b>lV</b> System Specifications
Appendix	BMaxMin II	Specifications
Appendix	CTechnical	Data Statement

#### INTRODUCTION

Cominco Limited holds a group of 18 mining claims all of which are located in the west central section of Cleaver Township, District of Temiskamining in the Larder Lake Mining Division. (Figure 3, M.N.D.M. Plan Map G-3619).

Exsics Exploration Ltd., was contracted by Cominco during the month of February 1989, to perform a geophysical program on the property.

The purpose of this program was to locate and define favorable structure suitable for base metal and or gold deposition.

This report will deal with the results of the geophysical program as well as recommendations for future follow-up work.

#### PERSONNEL

The people directly involved with the field surveys were all employed by Exsics Exploration Ltd and are as follows: Wayne Pearson......Party Leader.....Timmins, Ontario Dan Collin.....Assistant.....Timmins, Ontario Brian Keen......Operator.....Timmins, Ontario John Penttinen.....Operator.....Timmins, Ontario

All of the work was supervised by J.C. Grant.

#### CLAIM GROUP

The claim group consisted of 18 contiguous unpatented mining claims and all are located in Cleaver Township. They are as follows:

L	1027642	L	1027651
L	1027643	L	1027652
L	1027644	L	1027653
L	1027645	L	1027654
L	1027646	L	1027655
L	1027647	L	1027656
Ľ	1027648	L	1027657
L	1027649	L	1088373
L	1027650	L	1088374

(Refer to Figure 3, Plan Map G-3619 of the M.N.D.M).

#### LOCATION AND ACCESS

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The Cleaver property is located approximately 35 kilometers southeast of the City of Timmins, in the west central section of Cleaver Township (Figure 1 & 2).

More specifically, it is situated east of Forkes River and covers the majority of Little Nighthawk Lake and a portion of the Little Nighthawk River which flows into Little Nighthawk Lake. (Refer to Figure 2 for the property location).

- 2 -







#### <u>ACCESS</u>

Access to the property during the survey period was by truck from Timmins to South Porcupine, through South Porcupine along the Langmuir Road in a southeasterly direction to the junction of the Langmuir Road and the Stringer Road. The Stringer Road travels south through Eldorado and Fallon Townships and into Cleaver Township. A short skidoo ride along secondary gravel roads provides good access to the group itself. (Refer to Figure 2).

#### GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey and a MaxMin II, horizontal loop, electromagnetic survey. Both of these surveys were completed over a cut grid which covered the entire group of 18 claims.

## Linecutting:

A detailed metric grid was first cut over the property which would provide good control of all the geophysical surveys.

A baseline was cut across the block at an azimuth of 115 degrees. Cross lines were then turned off of this base line at 100 meter intervals and cut to the north and south boundaries of the block. All of the lines and base line were chained with 25 meter station intervals. In all, a total of 33 kilometers of grid lines were established over the property.

- 3 -

#### Magnetic Survey

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

This unit is capable of recording and storing magnetic values accurate to the decimal point, thus greatly improving the accuracy as well as the quality of the collected data.

A base station was established on the survey grid at a fixed point and this unit was tuned to a reference field of 58556 gammas. The field unit was also tuned at the same fixed point and set to the same reference field.

The base station unit was set to record and store readings at 30 second intervals so as to monitor any spiking or change in the earth's diurnal throughout the day.

At the end of each survey day, the field unit and base station unit are coupled together and the raw field data is dumped to the base station mag where it is merged. The internal microprocessor then computes the diurnal variation in the earth's magnetic field for each survey grid coordinate by comparing the times at which readings were taken and computing any mid-interval values.

This is most useful in these northern latitudes where more detailed monitoring of the diurnal variations is required.

This correction is done during the data dump of the unit. The retreived data is the correct data ready for plotting.

- 4 -

This plotted data has had a background of 58000 gammas removed for ease in plotting.

#### Horizontal Loop Survey

This survey was completed using the MaxMin II system manufactured by Apex Parametrics of Toronto. Specifications for this unit can be found as Appendix B of this report.

This survey is a two man continuously portable system which is designed to measure both the vertical and horizontal in-phase,(IP), and quadrature, (OP), field from electrically conductive zones. For the initial MaxMin survey, a coil separation of 100 meters was used between the receiver and transmitter operators. This would allow us a theoretical search depth of 50 - 55 meters. It was also decided to use three frequencies, the 3555, 1777 and 444 Hz which would deal effectively with a wide range of overburden and bedrock conductor conductivities.

After the initial survey was completed over the entire grid, several of the grid lines were re-read with a 150 meter coil seperation in the hopes of better defining any questionable responses.

The data was collected at the mid-point of the two operators over the entire grid. One in-phase and one quadrature value was recorded at each station.

This collected data was then plotted directly onto the base maps, one base map for each frequency.

- 5 -

#### <u>Base Maps</u>

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These maps were set up at a scale of 1:5000 and all of the collected data was put on them.

For the magnetic data, 58,000 gammas has been subtracted from each reading for ease in plotting. The data was then contoured at 100 gamma intervals wherever possible.

The MaxMin maps were profiled at 1 cm to 20% and one map was used for each frequency. The plot point is the mid-point between the operators which accounted for the 50 or 75 meter blanks at the north and south end of each line.

All of these maps can be found in the back pocket of this report.

#### Survey Results

The geophysical surveys were successful in locating several areas of interest on the grid. Each of these areas will be discussed seperately and in detail in the following text.

The magnetic survey outlined 3 <u>major structural features</u> which are well defined on the survey grid.

Certainly the most predominant feature is the north-south striking feature along the east section of the grid. The feature may relate to a suspected contact zone between the Intermediate and Mafic volcanics to the west and the Sediments to the east. The feature well defines this suspected contact. It also appears that none of the EM targets strike past this contact zone.

- 6 -

The best EM zone strikes across lines 200 ME to 300 MW at about 200 MN. This feature appears to represent a legitimate bedrock conductor at a depth range of 20 - 35 meters with a conductivity value of 2 to 10 mhos. The zone appears to be dipping near vertical.

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The zone has good magnetic signature represented by a low to high to low correlation striking east to west. This zone may also represent a lead, zinc mineral occurence which has been mapped previously and is shown on the Timmins-Kirkland Geological Compilation series Map 2205 (Refer to Figure 4).

This feature was also covered by the 150 meter coil, detailed, MaxMin survey. The feature was enhanced and defined to be at a depth of 20 - 43 meters with a conductivity value of 2 to 10 mhos. This survey further suggests that the zone represents a good legitimate bedrock response.

A second EM target located on the grid strikes across lines 300 ME to 100 MW from 150 MS to 325 MS. This feature appears to be bedrock related however, it is somewhat weaker than the primary target to the north.

The zone does have a moderate to good magnetic signature represented by a high to low correlation from east to west. The magnetics appear to show a narrow, weak structure striking into the geological contact to the east and a possible intrusion to the west. This feature was also covered by the larger coil seperation but little new information was obtained.

- 7 -



A third area of interest noted by the EM survey and more so with the larger coil seperation is a north-south striking feature in the area of lines 300 ME to 0 MW from 600 MN to 1000 MN.

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This feature may in fact relate to the contact zone between the volcanics to the west and the sediments to the east

#### RECOMMENDATIONS AND CONCLUSIONS

The surveys were successful in outlining one major area of interest, that being the area of conductor A at 200 MN. Several other areas worthy of notice were located, however, at this time there is insufficient results to give a better definition of the targets. These secondary zones should not be ruled out at this time.

The author suggests only that future work be concentrated on the more predominate zone and depending on encouraging results, focus should then shift to the secondary targets.

Future programs should consist of a detailed mapping program in the area of the major zone with the intention of correlating the lead-zinc occurence to the EM ground target. General mapping of the area in the vicinity of the minor targets should also be considered.

A diamond drill program should be considered to test the main feature and if encouraging results are obtained, further drilling of the secondary targets may be considered.

In lieu of diamond drilling, and if the overburden is shallow enough, stripping and trenching may be considered to explain the main feature and also to trace the limits of the lead-zinc mineral occurences.

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An IP survey or Pulse EM survey may be considered to better define the secondary targets and any parallel features not detected in the initial geophysical program.

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## Respectfully Submitted,

J.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 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 13 years.
- 6. That my report on CLEAVER TOWNSHIP, LARDER LAKE MINING DIVISION, for COMINCO LIMITED, is based on work carried out under my supervision.
- 7. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

Dated this 17th day of April, 1989 at Timmins, Ontario.

John C. Grant, 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.
Input Voltage (Vp) Range	. 40 microvolts to 4 volts, with automatic ranging and overvoltage protection.
Vp Resolution	. 10 microvolts.
Vp Accuracy	.0.3% typical; maximum 1% over temperature range.
Chargeability Resolution	.1%.
Chargeability Accuracy	.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 I/O 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	. – 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

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

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# 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.
- Coll 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:**

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Frequencies:	222,444,888,1777 and 3555 Hz.	Repeatability:	±0.25% to ±1% normally, depending
Modes of Operation:	MAX: Transmitter coil plane and re- ceiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with referceble.	Transmitter Output	on conditions, frequencies and coll separation used. t: - 222Hz : 220Atm <sup>2</sup> - 444Hz : 200Atm <sup>2</sup>
	MIN: Transmitter collplane harizon- tal and receiver collplane ver- tical (Min-coupled mode), Used with reference cable.	Boosium Battania	B88 Hz : 120 Atm <sup>2</sup> 1777 Hz : 60 Atm <sup>2</sup> 3555 Hz : 30 Atm <sup>2</sup>
	V.L.: Transmitter coll plane verti- cal and receiver coll plane hori- zontal (Vertical-loop mode). Used without reference		Life: approx. 35hrs. continuous du- ty (alkaline, 0.5 Ah), less in cold weather.
Coll Separations:	cable, in parallel lines. 25,50,100,150,200 & 250m (MMI) ar 100, 200, 300, 400, 600 and	Transmitter Batteries:	12V 6 Ah Gel-type rechargeable battery. (Charger supplied).
	BOO ft. (MMIIF). Coil separations in VL.mode not re- stricted to fixed values.	Referenc <b>e Cable</b> :	Light weight 2-conductor teflon ceble for minimum friction. Unshield- ed. All reference cebles optional
Parameters Read:	- In Phase and Quadrature compo- nents of the secondary field in MAX and MIN modes.	Voice Link:	Built-in intercom system for voice communication between re-
	- Tilt-angle of the total field in V.L. mode .		ceiver and transmitter operators in MAX and MIN modes, via re- ference cable.
Readouts:	- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No null- ing or compensation necessary,	Indicator Lights:	Built-in signal and reference warn- ing lights to indicate erroneous readings.
	- Tilt angle and null in 90mm adga- wise meters in V.L.mode.	Temperature Range	; -40°C to +60°C (-40°F to +140°F).
Scale Ranges:	In-Phase: ±20%,±100% by push-	Receiver Weight	: 6kg (13 lbs.)
	Quadrature: ±20%, ±100% by push-	Transmitter Weight	13kg (29 lbs.)
	Tilt: ±75% slope Null(VL): Sensitivity adjustable by separation switch.	Bhipping Weight	Typically 60kg (135 lbs.), depend- ing on quantities of reference cable and batteries included. Shipped in two field/shipping cases.
Readability:	In-Phase and Quadrature: 0.25 % to 0.5 %; Tilt: 1%.	Specifications subje	ct to change without notification
AP	EX PARAM		

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APPENDIX C



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Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

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# **GEOPHYSICAL TECHNICAL DATA**

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<u>GROUND SURVEYS</u> If more than one survey, spe	ecify data for each type of survey
Number of Stations 330	Number of Readings 6200
Station interval 25 M	Line spacing 100M
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Delay time	
- Integration time	
Power	
Electrode array	
Electrode spacing	
Type of electrode	

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Via: Purolator Courier

Mr. M. Weirmeir Mining Recorder 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

April 18, 1989

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Dear Mr. Weirmeir:

Re: Claims L.1027642 et al Cleaver Township and L.983163 et al Robertson Township

Attached hereto are two Reports of Work covering the above mentioned 27 mining claims. These reports of work request a total of 60 geophysics per claim on the 27 claims listed.

The required reports will be forwarded to A. Barr in Toronto within the required 60 days.

Yours truly,

R.C. LaRoche Records Technician Exploration, E.D.

RCL/ml

cc: S.Selke, Vancouver

Enc.

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