GEOPHYSICAL REPORT
ON THE
ROBERTSON PROPERTY
ROBERTSON TOWNSHIP
LARDER LAKE MINING DIVISION
FOR
COMINCO LIMITED

Prepared By:
J.C. Grant C.E.T., FGAC
Exsics Exploration
April 25, 1989

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INTRODUCTION

Cominco Limited holds a group of 21 mining claims all of which are located in the central section of Robertson Township, District of Temiskaming in the Larder Lake Mining Division. (Figure 3, M.N.D.M. Plan Map M-310).

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

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

PERSONNEL

The people directly involved with the field surveys were all employed by Exsics and are as follows:

Wayne Pearson.....Receiver Operator.....Timmins, ONT

Dan Collin.....Assistant Operator.....Timmins, ONT

Ted Anderson.....Magnetometer Operator.....Timmins, ONT

All of the work was carried out under the supervision of J.C. Grant.

CLAIM GROUP

The claim group consisted of 21 contiguous, unpatented mining claims and all are located in Robertson Township. This report will deal with coverage on 14 of the 21 claims. They are as follows:

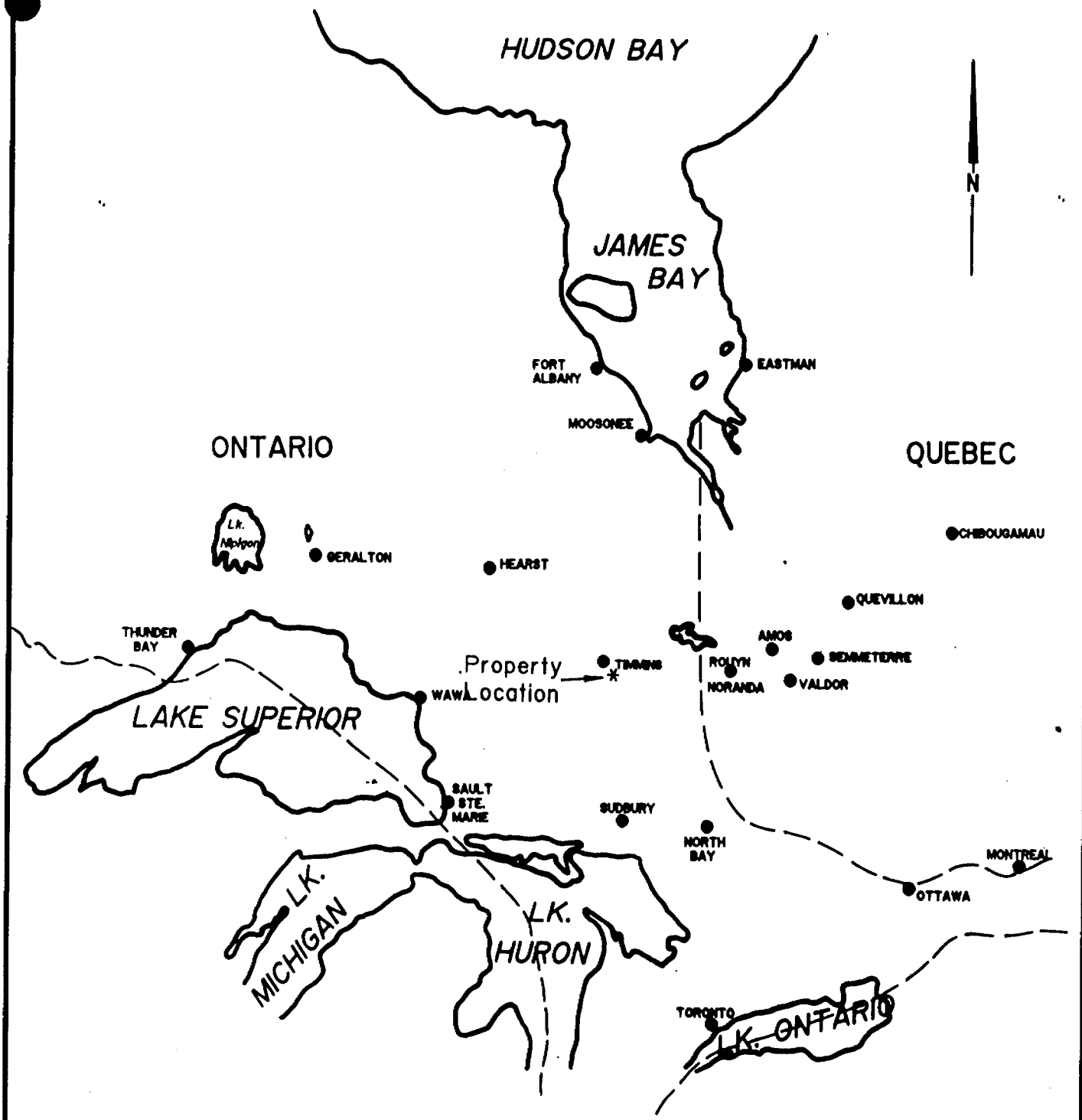
L983163	L983169	L1073717
L983164	L983170	L1073721
L983165	L1014348	
L983166	L1073668	
L983167	L1073669	
L983168	L1073670	

(Refer to Figure 3, Plan Map M-310 of M.N.D.M.)

LOCATION AND ACCESS

The Robertson Property is located approximately 40 km southeast of the City of Timmins, or 20 km north of the Town of Matachewan. (Figure 1 & 2). More specifically, the group is situated due north of East Whitefish Lake in the central section of Robertson Township.

The access to the grid during the survey period was ideal. Working out of Matachewan, a short truck ride north along an all weather road into the Matachewan Indian Reserve #72, to the end of the plowed road. Then a six to eight mile skidoo ride along an old road from the reserve to the centre west section of the claim group.



EXSICS EXPLORATION LTD.
P.O. Box 1988, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

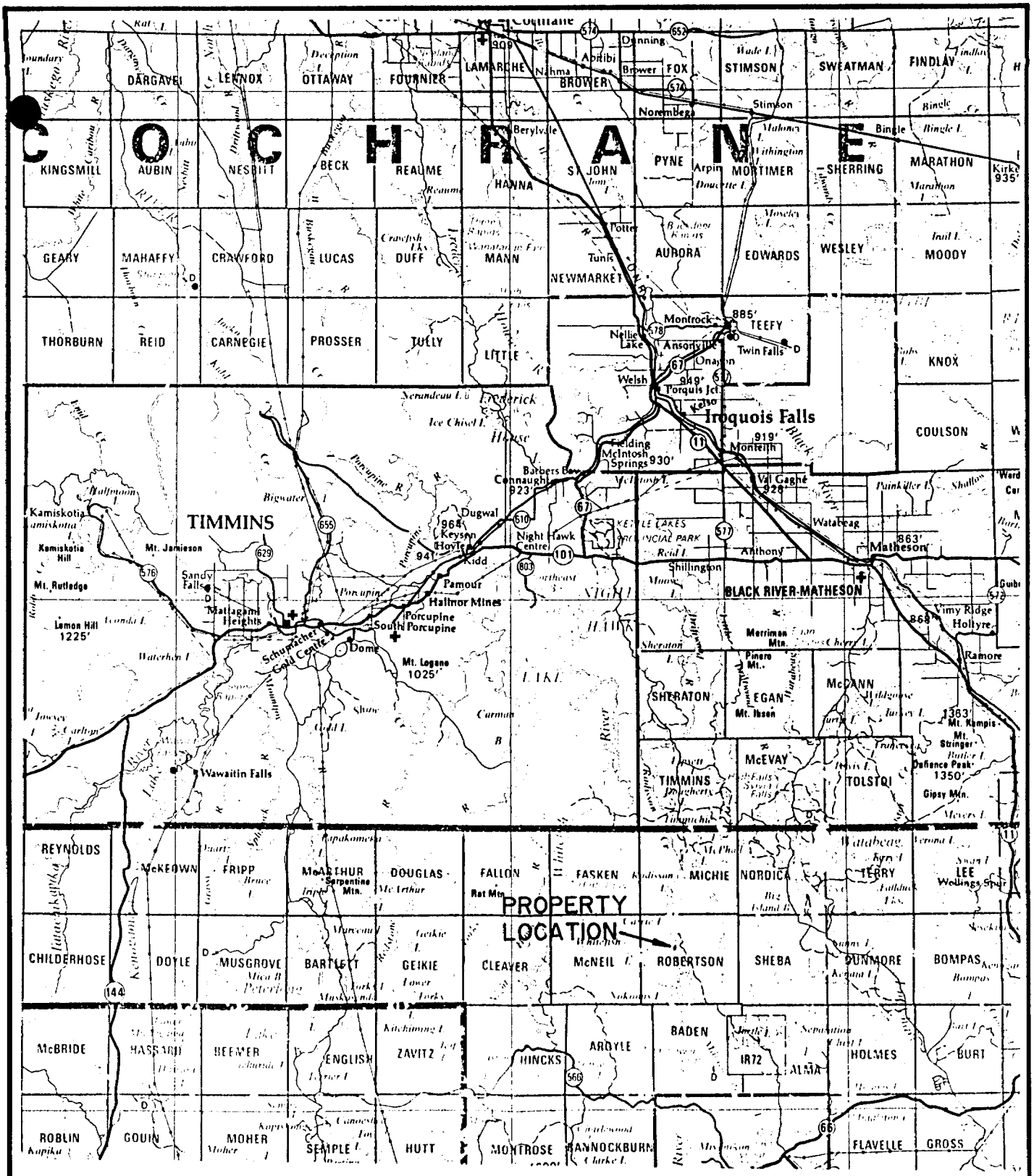
CLIENT: COMINCO LIMITED

PROPERTY: ROBERTSON TOWNSHIP PROP.

TITLE: LOCATION MAP

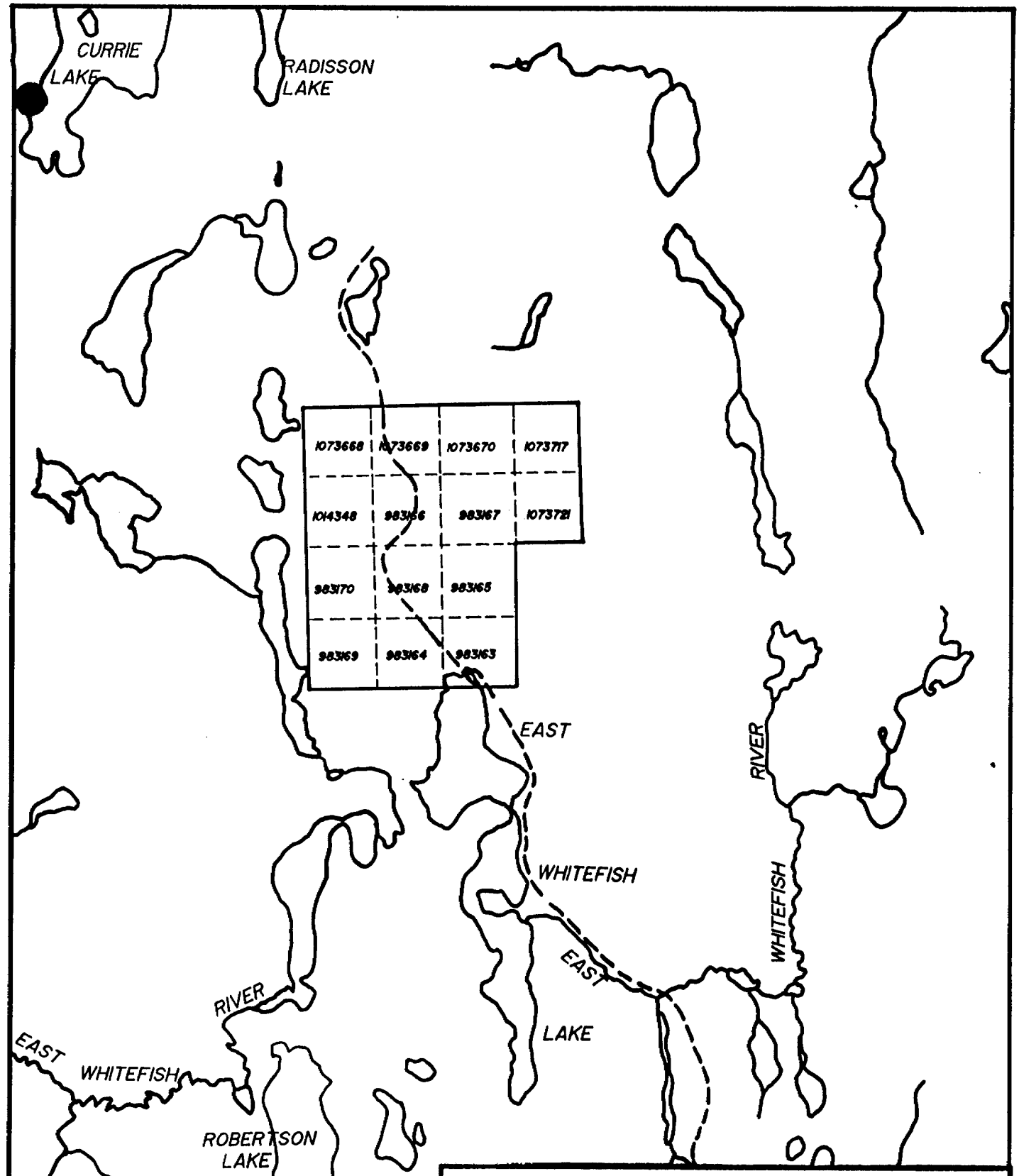
Fig. 1

Date: April 1989	Scale: 1"=125miles	NTS:
Drawn:	Interp: J. Grant	Job No. EE-232



EXSICS EXPLORATION LTD.
P.O. Box 1088, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151

CLIENT: COMINCO LIMITED		
PROPERTY: ROBERTSON TOWNSHIP PROP.		
TITLE: AREA LOCATION MAP Fig. 2		
Date: April 1989	Scale: 1:600,000	NTS:
Drawn:	Interp: J. Grant	Job No. EE-232



EXSICS EXPLORATION LTD.
P.O. Box 1088, P4N-7X1
Suite 13, Hollinger Bldg. Timmins Ont.
Telephone: 705-267-4151

CLIENT: COMINCO LIMITED		
PROPERTY: ROBERTSON TOWNSHIP PROP.		
TITLE: CLAIM GROUP SKETCH Fig. 3		
Date: April 1989	Scale: 1"=1/2mile	NTS:
Drawn: P.G.	Interp: J. Grant	Job No. EE-232

Matachewan is serviced by Highway 66 which runs east and west off of Highway 11 north; just south of the Village of Kenogami. (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 14 of the 21 claims.

Linecutting:

A detailed metric grid was first cut over the 14 claims which would provide good control of all the geophysical surveys. A baseline was established across the centre of the 14 claims at an azimuth of 120 degrees. Cross lines were then turned off of this baseline at 100 meter intervals and cut to the boundaries of the claim group. All of the crosslines and baselines were chained with 25 meter pickets. In all, a total of 23.2 km of grid lines were cut over the claim group.

Magnetic Survey:

This survey was completed using the Scintrex MP-2 Portable Proton Magnetometer. Specifications for this unit can be found as Appendix A of this report.

The survey was done by first reading the baseline and tying it into a fixed point. Then all of the cross lines were read off of this baseline and corrected to the baseline level. The diurnal variation was found not to exceed 20 gammas in 2 - 3 hours throughout the day.

This collected, corrected data was then plotted directly onto a base map using a scale of 1:5000. Also, a base level of 58,000 gammas has been removed from each value for ease in plotting.

The plotted data was then contoured at 100 gamma intervals wherever possible. The base map for the magnetic survey can be found in the back pocket of this report.

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, (QP), field from electrically conductive zones.

A coil seperation, the distance between the two operators, of 100 meters was used throughout the survey. This would give us a theoretical search depth of 50 - 60 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.

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.

Due to the rugged topography in the area, the in-phase reading on all three frequencies is somewhat more noisy than usual. The grid would have to be secant chained to correct for slope and to keep the coils coplaner.

Base Maps:

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, 58000 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 1cm to 20% and one map was used for each frequency. The plot point is the mid-point between the operators which accounts for the 50 meter blanks at the ends of each line.

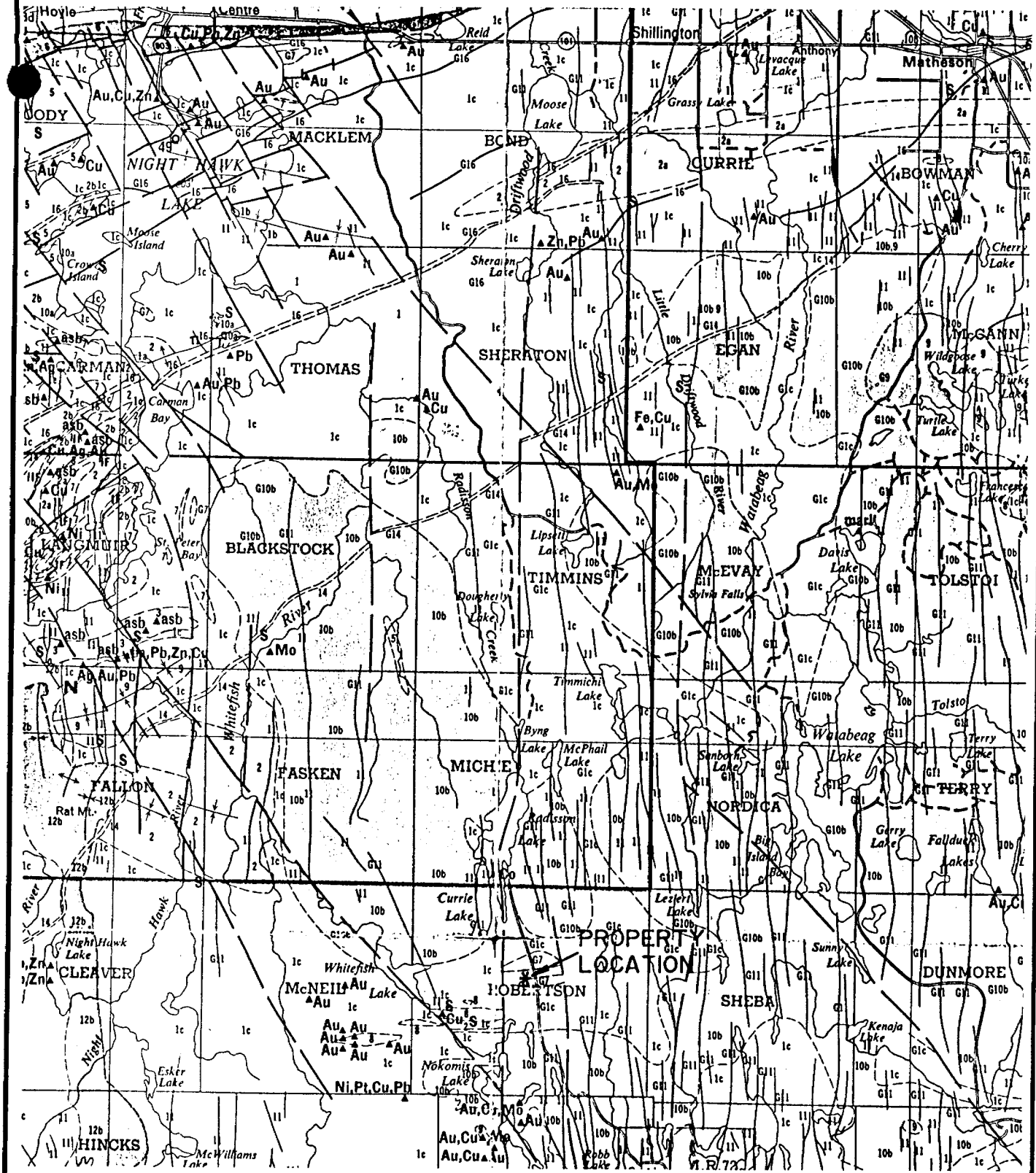
All of these maps can be found in the back pocket of this report.

SURVEY RESULTS

The geophysical surveys were successful in outlining one conductive zone on the survey grid. This feature strikes across line 0t00 to line 3t00ME at approximately 75 to 150 MN. The zone appears to represent a legitimate bedrock feature at a depth to source of -30 to -40 meters and with a conductivity range of 5 to 20 mhos.

There is a good magnetic, high, low correlation with the eastern tip of the feature, but little to no correlation with the western section.

The magnetic survey was successful in outlining two areas of ultramafic intrusions which also appear on the Timmins-Kirkland Geological Series Map 2205. (See Figure 4). The weak magnetic structure nosing into the grid from the south may in fact relate to the contact between the intermediate and Mafic metavalcanics and the felsic intrusions.



EXSICS EXPLORATION LTD.
P.O. Box 1088, P4N-7X1
Suite 13, Hollinger Bldg. Timmins Ont.
Telephone: 705-267-4151

CLIENT: COMINCO LIMITED		
PROPERTY: ROBERTSON TOWNSHIP PROP.		
TITLE: TIMMINS & KIRKLAND LAKE GEOLOGY MAP		
MAP: 2205		Fig. 4
Date: April 1989	Scale: 1"=4miles	NTS:
Drawn:	Interp: J. Grant	Job No. EE-232

RECOMMENDATIONS AND CONCLUSIONS

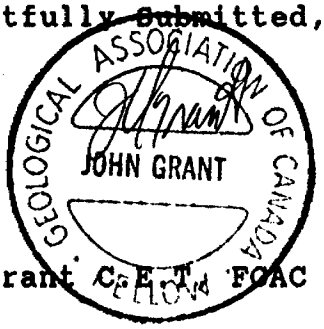
The surveys were successful in outlining one area of specific interest on the survey grid. The target does appear to represent a legitimate bedrock response well within the search depth capacity of the survey.

A recommended follow-up program should consist of detailed mapping and prospecting certainly in the vicinity of the EM target.

At this time, no further geophysics is recommended since the one target is quite well defined.

A short drill program should be considered to further test the EM target. Further work on the group would then be based on the results of the drilling.

Respectfully Submitted,



J.C. Grant C.E.T. FGAC

CERTIFICATE OF QUALIFICATIONS

I, John Charles Grant do hereby certify:

1. 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 ROBERTSON 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 25th day of April, 1989
at Timmins, Ontario.

GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

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

APPENDICES

APPENDIX A

SCINTREX

earth science division

Proton Precession Magnetometer for Portable or Base Station Use

MP-2

features

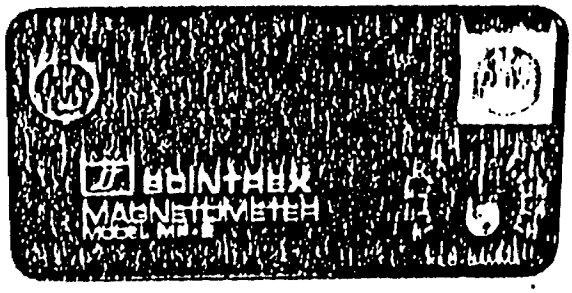
- *1 gamma sensitivity and accuracy over range of 20,000 to 100,000 gammas.*
- *Operates in very high gradients, to 5000 gammas per metre.*
- *Ultra small size and weight.*
- *Up to 25,000 readings from only 8 D cells.*
- *Battery pack isolated from electronics for corrosion protection.*
- *Battery pack easily extended for winter use.*
- *Light-emitting diode digital display, with complete test feature.*
- *Unique no-glare polarized reflector permits easy reading in bright sunlight.*
- *Indicator light warning of excessive gradient, ambient noise or electronic failure.*
- *Digital readout of battery voltage.*
- *Rugged all metal housing for rough field use at all temperatures.*
- *Automatic recycling or external trigger features permit ready conversion to base station use.*
- *Short reading time.*
- *Broad operating temperature range.*

The MP-2 is a portable one gamma proton precession magnetometer for field survey or base station use. The optimized design of sensor and circuitry using the latest CMOS components has resulted in a very light weight, low power consumption, rugged and reliable magnetometer.

Light emitting diodes coupled with an ingenious optically polarized reflector combine solid state reliability with easy reading even in bright sunlight.

A standard automatic recycling feature allows ready use of the MP-2, with suitable (optional) interfacing, as a base station recorder in analogue or digital form. Alternatively, a remote trigger can be used.

The noise-cancelling dual-coil sensor and electronics have been so designed as to effectively eliminate reading problems due to virtually all magnetic gradients which may be encountered in field survey conditions.



TECHNICAL DESCRIPTION OF MP-2 MAGNETOMETER

SCINTREX

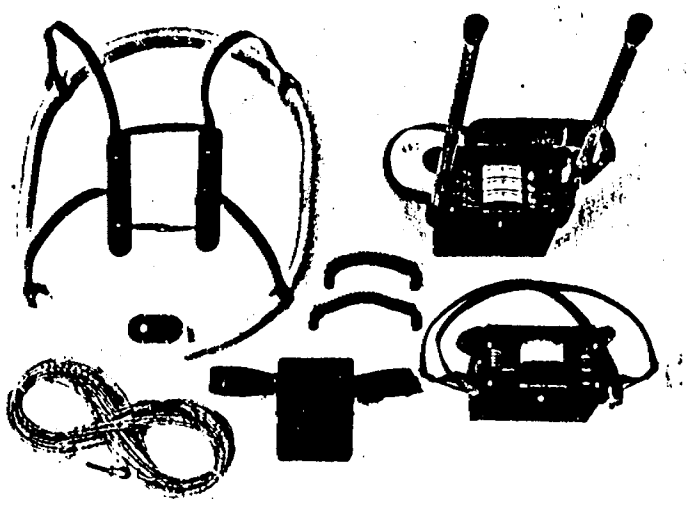
RESOLUTION	1 Gamma.
TOTAL FIELD ACCURACY	± 1 Gamma over full operating range.
RANGE	20,000 to 100,000 gammas in 25 overlapping steps.
INTERNAL MEASURING PROGRAMME	Single reading -- 3.7 seconds. Recyc. feature permits automatic repetitive readings 3.7 seconds intervals.
EXTERNAL TRIGGER	External trigger input permits use of sampling intervals longer than 3.7 seconds.
DISPLAY	5 digit LED (Light Emitting Diode) readout displaying total magnetic field in gammas or normalized battery voltage.
RECORDER OUTPUT (Optional)	Multiplied precession frequency and gate time outputs for interfacing with incremental tape recorders (eg. Increlogger) for digital recording. As an additional option a digital to analogue convertor is available for use with analogue recorders.
GRADIENT TOLERANCE	Up to 5000 gammas/metre.
POWER SOURCE	8 alkaline "D" cells provice up to 25,000 readings at 25° C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
SENSOR	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
HARNESS	Complete for operation with staff or back pack sensor.
OPERATING TEMPERATURE TANGE	−35°C to +60°C.
SIZE	Console, with batteries: 80 x 160 x 250mm. Sensor: 80 x 150mm. Staff: 30 x 1550mm. (extended) 30 x 600 mm. (collapsed)
WEIGHTS	Console, with batteries: 1.8kg. Sensor: 1.3kg. Staff: 0.6kg.

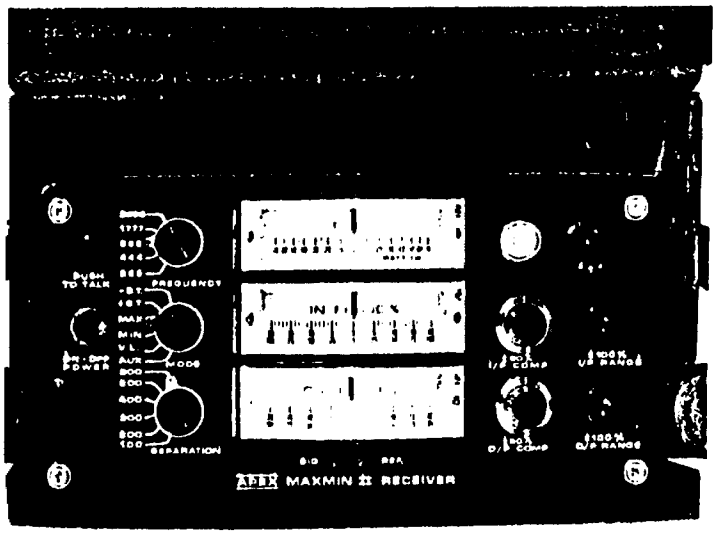
SCINTREX LIMITED
222 Snidercroft Road,
Concord, Ontario, Canada L4K 1B5
TELEPHONE (416) 669 2270. TELEX 06-964570

APPENIX 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 180 m (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 reference 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 & 250 m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
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 90 mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise 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 adjustable by separation switch.

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

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

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

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

Transmitter Batteries: 12V 6 Ah 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: 8 kg (13 lbs.)

Transmitter Weight: 13 kg (29 lbs.)

Shipping Weight: Typically 60 kg (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

APPENDIX C

Ministry of Northern Development and Mines

Ontario

W8908-138

Mining Lands

Report of Work

(Geophysical, Geological, Geochemical and Expend

42A02NE0018 2.12468 ROBERTSON

900

Type of Survey(s)
MAXMIN AND MAG.

Township or Area
ROBERTSON TWP.

Claim Holder(s)
COMINCO LTD.

2.12468

Prospector's Licence No.
A.10043

Address
2200-120 ADELAIDE ST.W., TORONTO, ONTARIO M5H 1T1

Survey Company
EXSICS EXPLORATION LIMITED

Date of Survey (from & to)

From Day	From Mo.	From Yr.	To Day	To Mo.	To Yr.
12	02	89	21	03	89

Total Miles of line Cut
14.4

Name and Address of Author (of Geo-Technical report)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical MaxMin · Electromagnetic	40
	· Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

LAKE MINING DIVISION
RECEIVED
APR 21 1989
9.50 am

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	983163	
	983164	
	983165	
	983166	
	983167	
	983168	
	983169	
	983170	
	1014348	
	1073668	
	1073669	
	1073670	
	1073717	
	1073721	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MAY 8 1989
MINING LANDS SECTION

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

JUN 14 1989

Total number of mining claims covered by this report of work. 14

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
840 2 f.	April 21/89	M.A. Wyeenne
	Date Approved as Recorded	Branch Director
	24 May 89	D.K. McClean

Date	Recorded Holder or Agent (Signature)
APRIL 18,1989	R.C. LaRoche

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
R.C. LaRoche c/o Cominco Ltd. 2200-120 Adelaide St.W., Toronto, Ont. M5H1T1

Date Certified	Certified by (Signature)
April 18,1989	R.C. LaRoche

1362 (85/12)

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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.

Type of Survey(s) MAGNETIC & HORIZONTAL LOOP EM

Township or Area ROBERTSON TOWNSHIP

Claim Holder(s) COMINCO LTD.

SUITE 200, 200 Granville ST. W. TORONTO ONT

Survey Company EXSICS EXP. LTD.

Author of Report J. C GRANT

Address of Author P.O. Box 1880, TIMMINS, ONT.

Covering Dates of Survey Feb 6/89 to April 25/89
(linecutting to office)

Total Miles of Line Cut 23.2 KM

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	20
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: April 25/89 SIGNATURE: _____
Author of Report or Agent

JOHN GRANT
GEOLOGICAL ASSOCIATION OF CANADA
FELLOW

Res. Geol. _____ Qualifications 2.5347

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	983163
	983164
	983165
	983166
	983167
	983168
	983169
	983170
	1014348
	1073668
	1073669
	1073670
	1073717
	1073721

If space insufficient, attach list

TOTAL CLAIMS 14

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 98 Number of Readings 6496.

Station interval 25 M. Line spacing 100 M.

Profile scale 1cm to 20 M.

Contour interval 100 NT.

MAGNETIC

Instrument SCINTREX MP-2 PROTON MAG.

Accuracy – Scale constant ± 1 gamma.

Diurnal correction method BASE LINE LOOPING.

Base Station check-in interval (hours) 2 HOURS.

Base Station location and value BASE LINE WAS READ & TIED IN AND CORRECTED.

ELECTROMAGNETIC

Instrument APEX MARK II HORIZONTAL LOOP SYSTEM

Coil configuration COPLANER

Coil separation 100 M.

Accuracy ± 1.5 %

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 3555 HZ, 1777 HZ, 444 HZ.
(specify V.L.F. station)

Parameters measured ONE INPHASE ONE QUADRATURE.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION

RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

MICHIE TWP. M. 301

McNEIL TWP. M.300

SHEBA TWP. M.385

BADEN TWP. M.205

Currie Lake

Radisson Lake

Whitefish Lake

Nakamis Lake

Robertson Lake

Skoodeas

Muhquah Lake

Whitefish

Nakamis

THE TOWNSHIP
OF

ROBERTSON

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	P
CROWN LAND SALE	C.S
LEASES	L
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O
MINING RIGHTS ONLY	M.R.O
SURFACE RIGHTS ONLY	S.R.O
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C

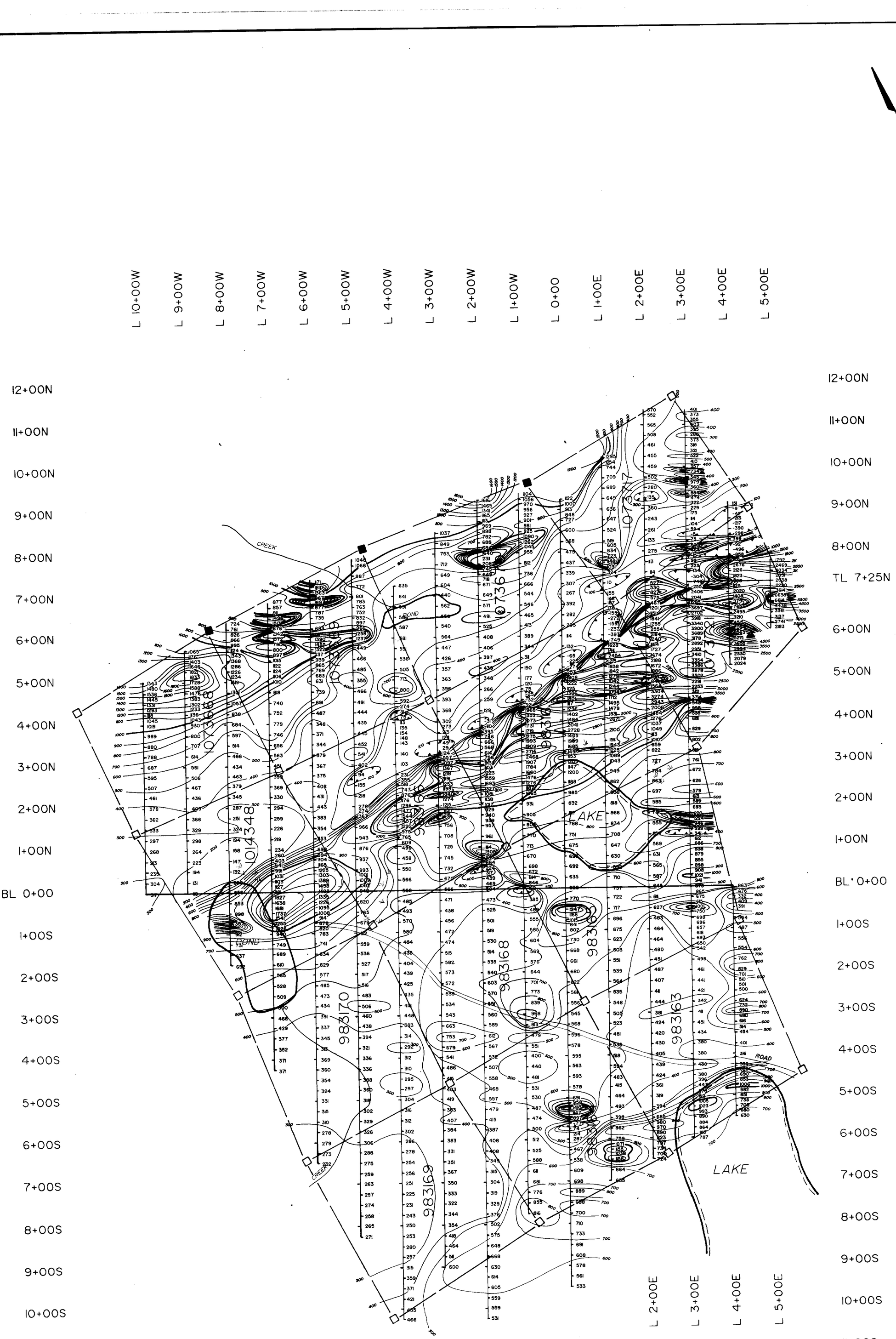
NOTES

400' surface rights reservation along the shores of all lakes and rivers

DATE OF ISSUE
MAR 6 1989
LARDER LAKE
MINING RECORDER'S OFFICE

PLAN NO. M.310

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



INSTRUMENT: Scintrex MP-2 Proton Precession Magnetometer
PARAMETRES MEASURED: Earth's Total Magnetic Field
ACCURACY: +/- 10 nano-teslas
DIURNALS: Corrected by Base Line Looping
CONTOUR INTERVAL: 0,100,200,300,400,500,600,.....
DATUM SUBTRACTED: 58,000

2.12468

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

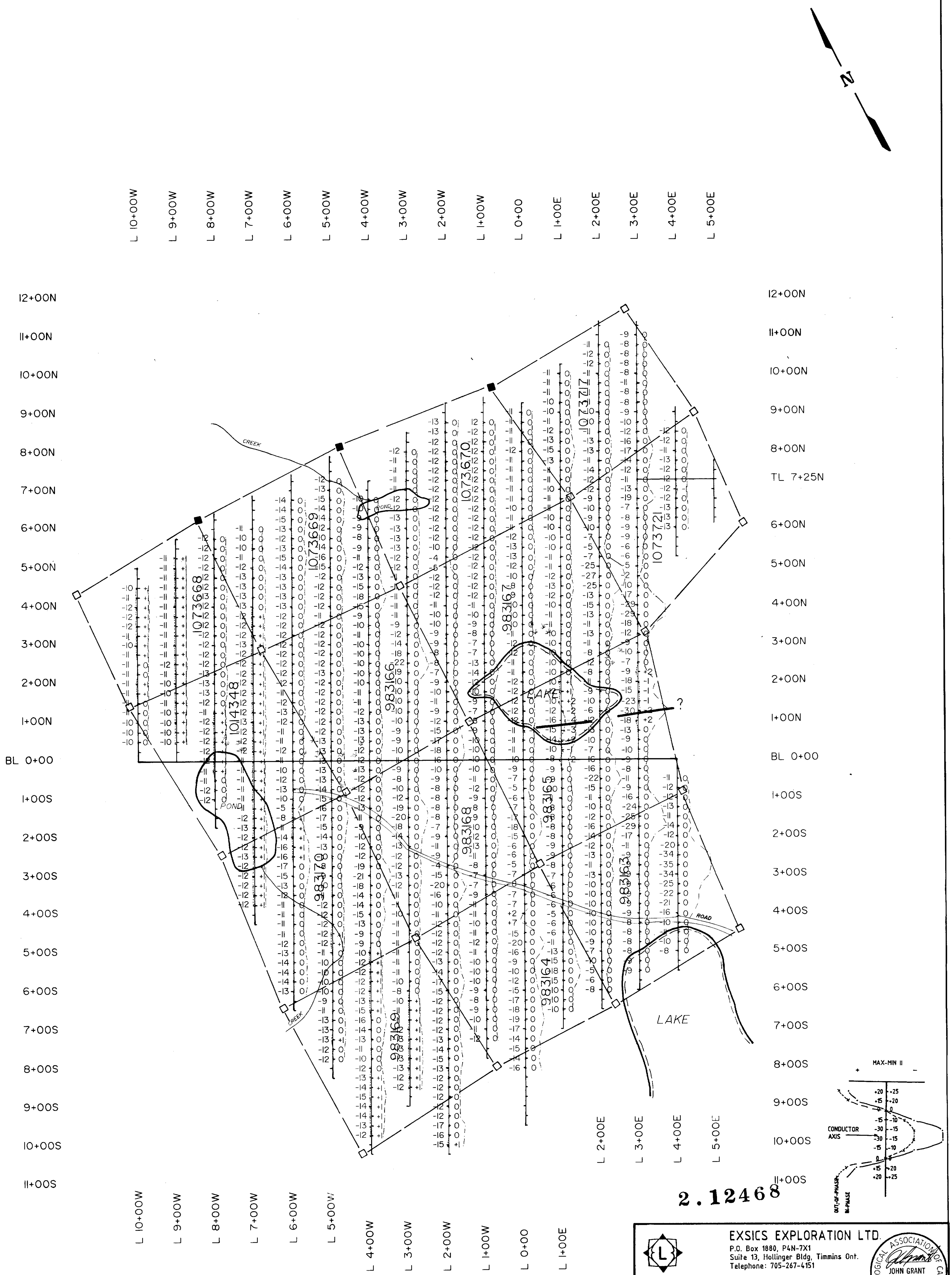
GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

CLIENT: COMINCO LIMITED

PROPERTY: ROBERTSON TOWNSHIP

TITLE: CONTOURED
MAGNETOMETER SURVEY

Date: MARCH/89	Scale: 1:5000	NTS:
Drawn: V.G	Interp: J.GRANT	Job No. EE-232



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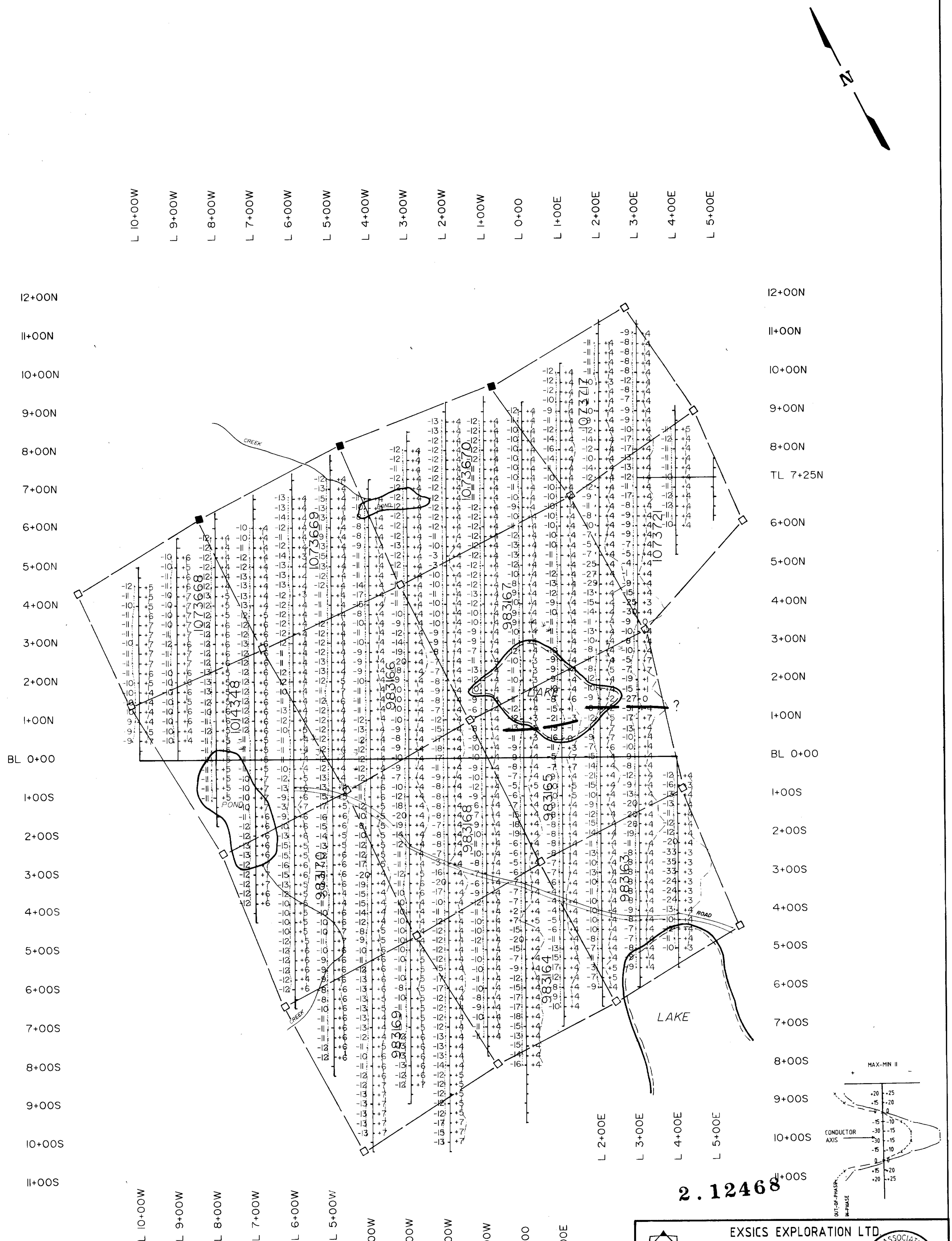
GEOLOGICAL ASSOCIATION OF CANADA — JOHN GRANT — FELLOW

CLIENT:	COMINCO LIMITED
PROPERTY:	ROBERTSON TOWNSHIP
TITLE:	MAX-MIN II 444 Hz

Date: MARCH/89	Scale: 1:5000	NTS:
Drawn: V.G	Interp: J.GRANT	Job No. EE-232

LEGEND

INSTRUMENT: Apex Parametrics Max-Min 11
MODE: Maximum Coupled, Horizontal Loop Survey
PARAMETRES MEASURED: Inphase (%)
Out of phase (%)
FREQUENCY: 444 Hz
COIL SEPARATION: 100 m
OPERATOR: D, COLLIN- W. PEARSON
PROFILE SCALE: 1cm=20%



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JOHN GRANT
GEOLOGICAL ASSOCIATION OF CANADA
FELLOW

CLIENT:	COMINCO LIMITED
PROPERTY:	ROBERTSON TOWNSHIP
TITLE:	MAX-MIN II 1777 Hz

Date: MARCH/89	Scale: 1:5000	NTS:
Drawn: V.G	Interp: J.GRANT	Job No. EE-232

LEGEND

INSTRUMENT: Apex Parametrics Max-Min 11
MODE: Maximum Coupled, Horizontal Loop Survey
PARAMETRES MEASURED: Inphase (%)
Out of phase (%)
FREQUENCY: 1777 Hz
COIL SEPARATION: 100 m
OPERATOR: D. COLLIN W. PEARSON
PROFILE SCALE: 1cm=20%

42A02NE0018 2.12468 ROBERTSON

230

L 10+00W
L 9+00W
L 8+00W
L 7+00W
L 6+00W
L 5+00W
L 4+00W
L 3+00W
L 2+00W
L 1+00W
L 0+00
L 1+00E
L 2+00E
L 3+00E
L 4+00E
L 5+00E

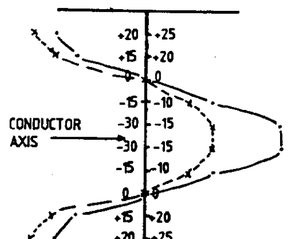
N

12+00N
11+00N
10+00N
9+00N
8+00N
7+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
BL 0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
7+00S
8+00S
9+00S
10+00S
11+00S

TL 7+25N

12+00N
11+00N
10+00N
9+00N
8+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
BL 0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
7+00S
8+00S
9+00S
10+00S
11+00S

MAX-MIN II



2.12468

L 10+00W
L 9+00W
L 8+00W
L 7+00W
L 6+00W
L 5+00W
L 4+00W
L 3+00W
L 2+00W
L 1+00W
L 0+00
L 1+00E
L 2+00E
L 3+00E
L 4+00E
L 5+00E

LEGEND

INSTRUMENT: Apex Parametrics Max-Min 11
MODE: Maximum Coupled, Horizontal Loop Survey
PARAMETRES MEASURED: Inphase (%)
Out of phase (%)
FREQUENCY: 3555 Hz
COIL SEPARATION: 100 m
OPERATOR: D. COLLIN- W. PEARSON
PROFILE SCALE: 1cm=20%

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GEOLOGICAL ASSOCIATION OF CANADA
JOHN GRANT
FELLOW

CLIENT: COMINCO LIMITED
PROPERTY: ROBERTSON TOWNSHIP
TITLE:
MAX-MIN II 3555 Hz

Date: MARCH/89	Scale: 1:5000	NTS:
Drawn: V.G	Interp: J.GRANT	Job No. EE-232