



42A11SE2004 2.18410 WHITNEY

010

GEOPHYSICAL REPORT  
FOR  
COLUMBIA METALS INC.  
ON THE  
ALERSTON PROPERTY  
WHITNEY TOWNSHIP  
PORCUPINE MINING DIVISION  
NORTHEASTERN ONTARIO

RECEIVED  
MAR 31 1998  
GEOSCIENCE ASSESSMENT  
OFFICE

Prepared by: J.C. Grant, CET, FGAC  
Timmins, Ontario  
July, 1997

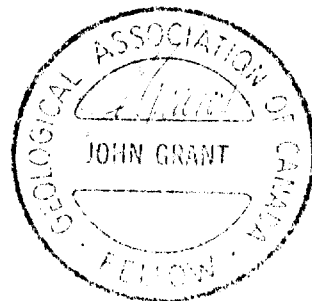




TABLE OF CONTENTS

	Page
SUMMARY.....	1
INTRIDUCTION.....	1
PROPERTY LOCATION AND ACCESS.....	1
CLAIM GROUP... ..	2
PERSONNEL.....	2
GROUND PROGRAM.....	2, 3
SURVEY RESULTS.....	3, 4, 5
CONCLUSIONS AND RECOMMENDATIONS.....	6
CERTIFICATE	
LIST OF FIGURES:	FIGURE 1: LOCATION MAP
	FIGURE 2: PROPERTY LOCATION MAP
	FIGURE 3: CLAIM MAP
APPENDICIES:	APPENDIX A: SCINTREX ENVI MAG SYSTEM
POCKET MAPS:	CONTOURED TOTAL FIELD MAGNETIC SURVEY
	PROFILED VLF INPHASE SURVEY
	CONTOURED FRASER FILTER MAP
	GEOLOGICAL COMPILATION OF SURVEYS.

**SUMMARY:**

During the early part of July, 1997, Exsics Exploration Limited carried out a detailed linecutting, total field magnetics survey and a VLF survey on behalf of Columbia Metals Inc. over a portion of the Allerston Property located in Whitney Township of the Porcupine camp.

The main objective of this program was to locate and outline the Destor-Porcupine Fault which is thought to traverse the property and most importantly, locate and if possible delineate a north-northwest to southeast striking fault which is an extension of the fault system striking through the Broulan Shaft area to the northwest.

**INTRODUCTION:**

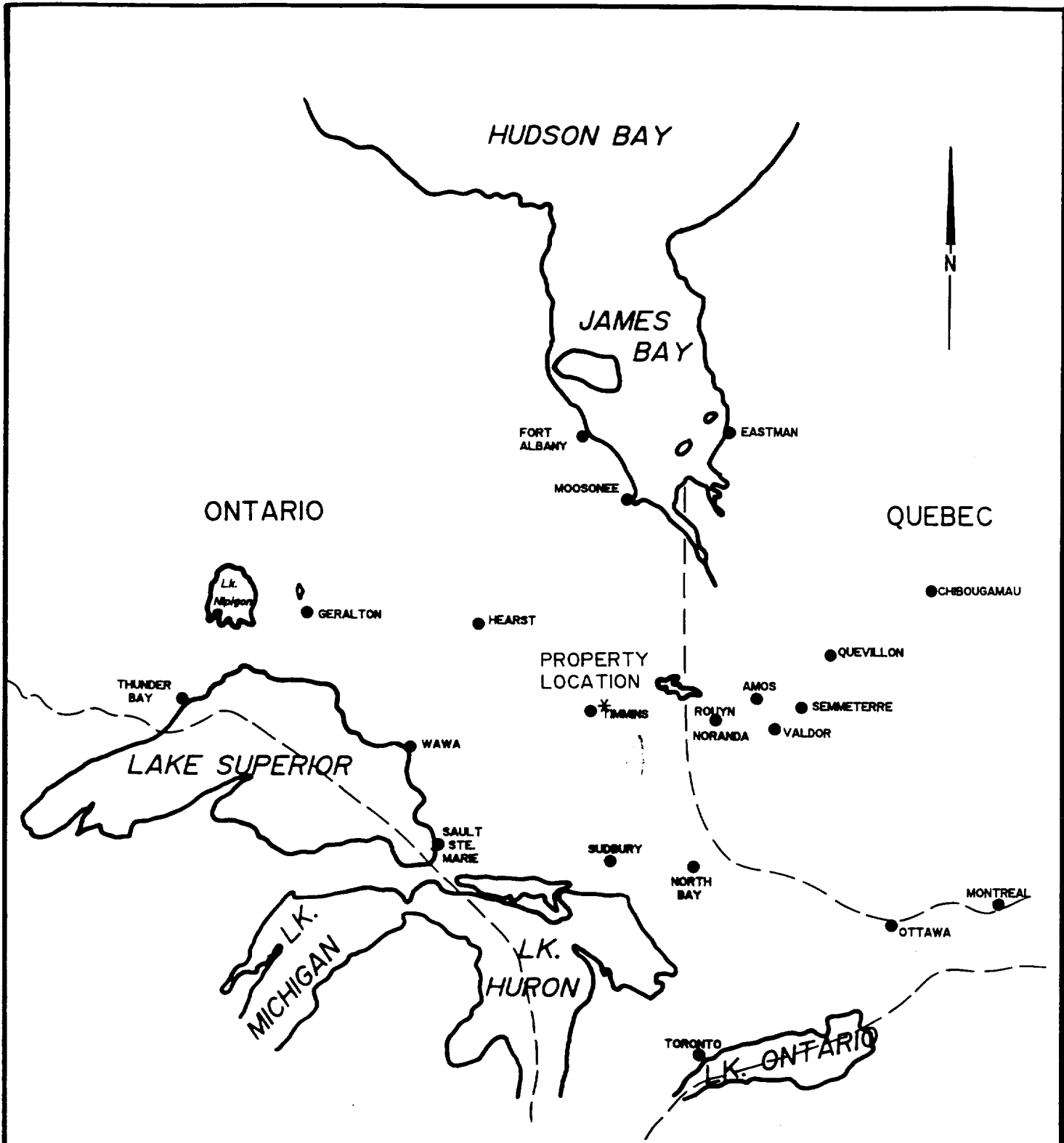
The services of Exsics Exploration Limited were retained by Mr. Ken Lapierre on behalf of Columbia Metals Inc. to complete a linecutting and ground geophysical program across three claims of the Allerston Property located in Whitney Township of the Porcupine Mining Division of Northeastern Ontario. Figures 1 and 2.


The purpose of this 1997 program was to map magnetic and electromagnetic features and to determine the litological and structural aspects of the property. Specific interest would be given to the suspected location of the Destor-Porcupine Fault and a suspected north-northwest to southeast striking fault system which could be the extension of the fault system striking through the Broulan Mine shaft area to the immediate north-northwest.

**PROPERTY LOCATION AND ACCESS:**

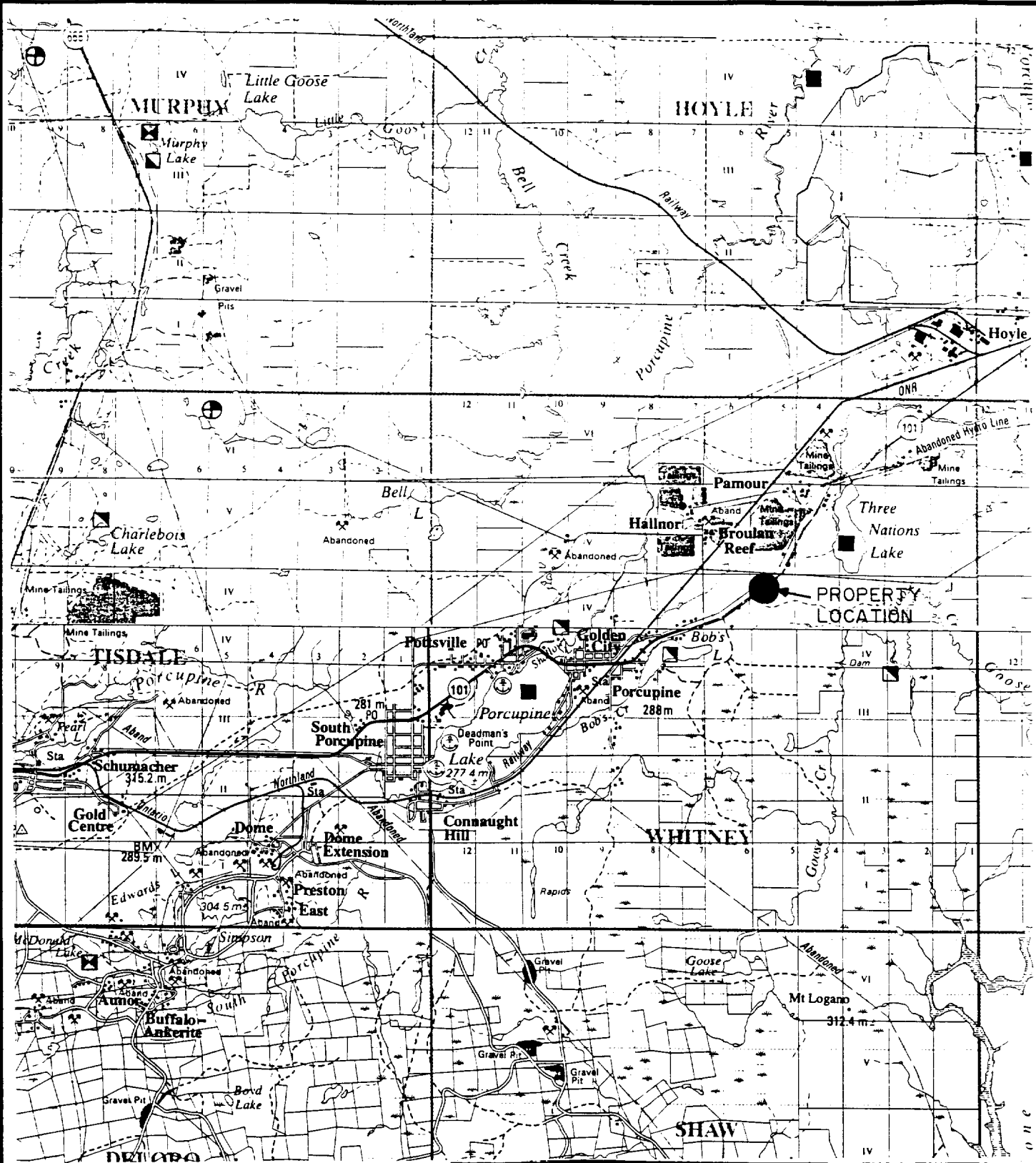
The property is situated in the center of Whitney Township, covering portions of Lots 5,6,7 and 8 Concession 4, Porcupine Mining Division, District of Cochrane in Northeastern, Ontario. Figure 1.

More specifically, the property is 14 kilometers east of the City of Timmins and lies due south of the Pamour, Hallnor and Broulan Mines. Highway 101 east, the Ontario Northland Railway and an HEPC powerline cross the property. The Highway allows excellent access to the claims throughout the entire year.



	<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1800, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
	<b>CLIENT: COLUMBIA METAL INC.</b>	
<b>PROPERTY: ALLERSTON PROPERTY</b>		
<b>TITLE: WHITNEY TWP. LOCATION MAP</b>		
Fig. 1		
<b>Date:</b> July 1997	<b>Scale:</b> 1"=12.5miles	<b>MNDM Plan#:</b>
<b>Drawn:</b> P. Gauthier	<b>Interp:</b> J.C. Grant	<b>Job No.</b> E-270





**EXSICS EXPLORATION LTD.**  
 P.O. Box 1000, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4511

**CLIENT: COLUMBIA METAL INC.**

**PROPERTY: ALLERSTON PROPERTY**

**TITLE: WHITNEY TWP.**

**PROPERTY LOCATION**

Fig. 2

**Date: July 1997**

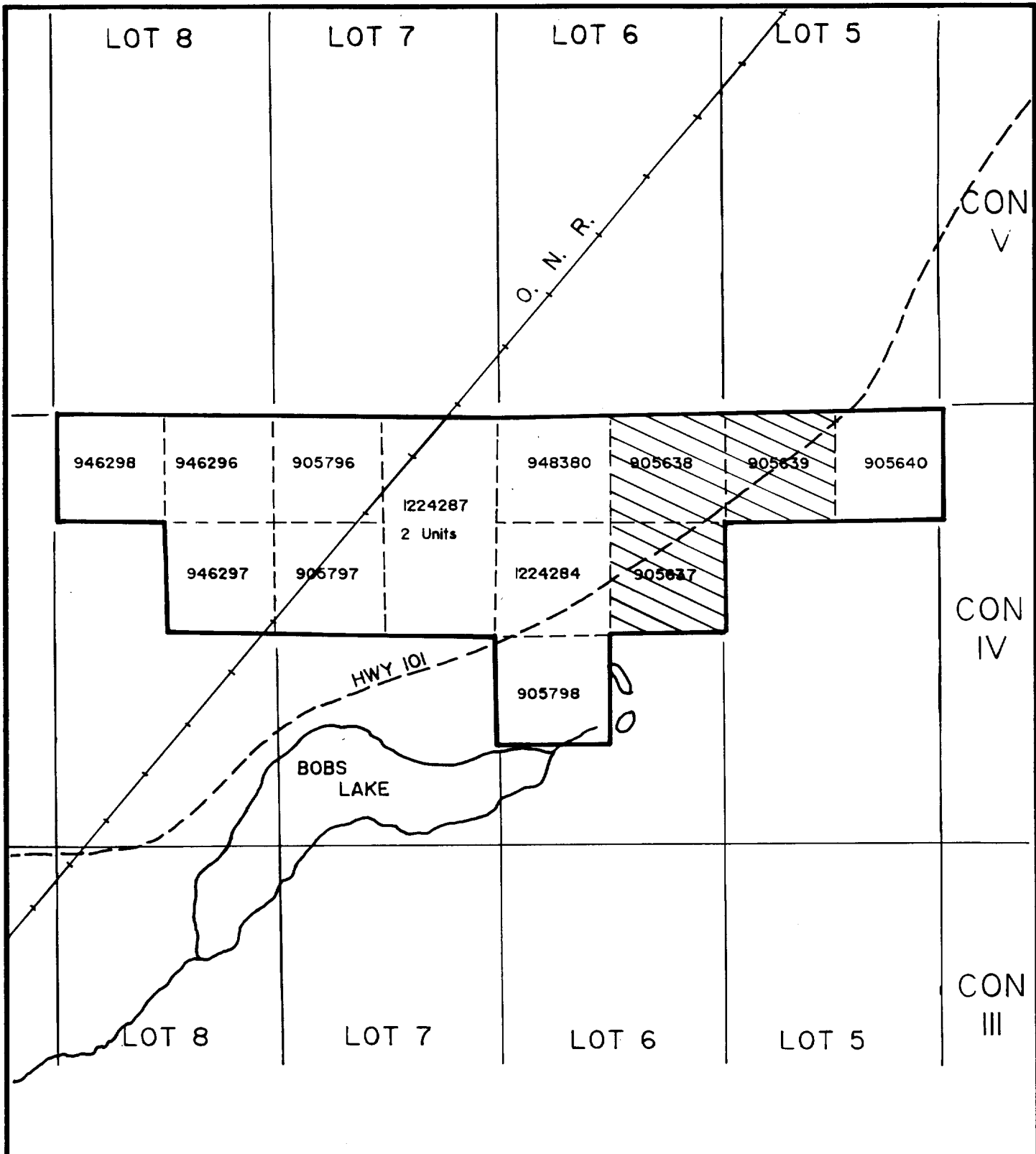
**Scale: 1:100,000**

**MNDM Plan#:**

**Drawn:**

**Interp: J.C. Grant**

**Job No. E-270**




 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-451		
CLIENT: COLUMBIA METAL INC.		
PROPERTY: ALLERSTON PROPERTY		
TITLE: WHITNEY TWP.		
<b>CLAIM SKETCH</b>		
Date: July 1997	Scale: 1:20,000	MNDM Plan#: G-3975
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-270

Fig. 3

CLAIM GROUP:

The entire property consists of 14 contiguous, unpatented mining claims. This report will deal with three of the claims which were covered by the 1997 program. The following is a list of the 14 claims, the underlined numbers represent the claims covered by this report.

P-905637, P-905638, P-905639, P-905640,  
P-1224287(2 Units), P-1224284, P-905796,  
P-905797, P-905798, P-946296, P-946297,  
P-946298, P-948380.

Refer to figure 3, copied from MNDM Plan Map, G-3975, for the location of the claims.

PERSONNEL:

The field crew directly involved with collection of all raw data were as follows.

John DerWeduwen, South Porcupine, Ontario  
Eric Jaakkola, Timmins, Ontario

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

GROUND PROGRAM:

The ground program was completed in two phases. The first phase of the program was to re-establish a portion of the original grid which had been cut across the property in 1987. The original baseline was located and lines 1400E to 4100E were located, recut and chained from the baseline to tieline 1200S. In all, a total of 19 kilometers of new grid was established across the three claims utilizing a 100 foot line spacing and 100 foot picket spacing throughout.

The second phase of the ground program was to cover the new grid with a detailed total field magnetic survey as well as a detailed VLF survey. The objective of these surveys was to locate and outline the southern fault extension from the Broulan Mine to the north. This ground geophysical program also included a low pass filtering of the VLF inphase, (Dip angle), results. This is known as Fraser Filtering which results in a positive value over shallow buried conductors and a less positive value over deeper buried zones. This filtering is also a good method of detecting weak questionable zones which may be represented by deflections in the field data.

The resulted filtered data is contoured at 5 unit intervals and only the positive values are contoured.

The Magnetic and VLF surveys were completed using the Scintrex Envi mag System. Specifications for this unit can be found as Appendix A of this report. The magnetic survey was controlled by a base station recorder to monitor the drift in the earth's diurnal. The BRGM, OMNI IV system was used as the base station recorder and specifications for this system can be found as Appendix B of this report.

The following parameters were kept constant throughout the surveys.

Line spacing.....	100 foot
Station spacing.....	100 foot
Reading interval.....	50 foot
Diurnal monitor.....	Base station recorder
Record interval.....	30 second intervals
Reference field.....	57800 gammas
Datum subtract.....	57000 gammas
VLF transmitter station.....	Cultler, Maine, 24.0khz
Transmitter direction.....	115 degrees
Data recorded.....	inphase and quadrature components dip angle, tilt, field strength.
Data plotted.....	inphase component

The collected data was then plotted onto a base map at a scale of 1 inch to 200 feet, one base map for each of the magnetic, VLF and Fraser filtered results, and then contoured and profiled where appropriate. All conductive zones, interpreted from the VLF survey, have been placed on the magnetic and Fraser filtered base maps. A copy of each of these basemaps is included in the back pocket of this report.

A geological compilation derived from the geophysical surveys has also been completed and it is included in the back pocket of this report as well.

#### SURVEY RESULTS:

The geophysical program was successful in locating and outlining the suspected Destor-Porcupine Fault as well as several north-northwest to southeast striking faults of which one appears to be the southern extension of the Broulan Mine. The surveys were also successful in outlining the geological characteristics of the property as well. A detailed interpretation of the survey results will be done correlating all of the survey methods.

VLF CONDUCTOR A:

This zone represents the strongest target on the survey grid other than zone E which represents the power line. Zone A lies along the south edge of claim P-905639 and can be traced from line 2900E to 4100E and continues off of the grid to the east. It is a good strong VLF response and correlates to a good magnetic high unit. The Fraser Filtered results suggest the zone is relatively shallow. The zone probably relates to a iron rich unit situated which appears to have intruded into the felsic host rock. The center portion of the zone also appears to have been cross cut by a northwest to southeast striking fault which seems to emanate from the Destor-Porcupine fault.

VLF CONDUCTOR C:

This zone lies across lines 3500E to 3800E and appears to be associated with the same iron rich unit that host zone A. In fact, the conductor seems to represent the contact between the iron formation and the suspected felsic unit. A portion of a east striking fault also correlates to the eastern section of the zone. This zone also has a good magnetic high association.

VLF CONDUCTOR B:

This zone lies across lines 2200E to 2600E at about 2100S and continues off of the grid to the east. It is represented by a good strong VLF response and appears to relate to the northeast edge of a magnetic low unit. However, there is abundant cultural noise to the immediate west and in the vicinity of this target which probably has caused the magnetic response, thus making the magnetic readings questionable. Generally, the zone appears to lie within a sedimentary host environment.

VLF CONDUCTOR D:

This zone is somewhat spotty and strikes northeast across lines 1400E to 2000E generally following the strike of the powerline and the Highway. Again, this zone lies within and or on strike to an area of magnetic activity which is being caused by cultural noise. Again, the zone also seems to lie within the sediments.

VLF CONDUCTOR E:

This zone generally seems to follow the strike of the power line and highway which is most likely the cause of the zone. Unfortunately, the zone appears to lie along the southern edge of the interpreted Destor-Porcupine fault structure but the presence of the powerline and Highway has influenced the VLF and magnetic surveys, thus making them questionable.

VLF CONDUCTOR G:

This zone strikes east across lines 2500E to 2800E at 650S and appears to strike away from the ultramafic intrusive coming into the grid from the west. The eastern tip of this zone appears to have been cut off by a northwest-southeast striking fault zone which is thought to be the southern extension of the Broulan Mine structure. On examining the magnetics and Fraser filtered data, this suspected cross structure can be seen in the contours. Zone G may, in fact, extend as far as lines 2900E and 3000E which has been faulted to the northeast. Generally, the zone appears to lie within the sediments.

VLF CONDUCTOR F:

This zone strikes northeast across lines 3300E to 3800E where it appears to continue off of the grid to the northeast. The zone also appears to lie within the sediments and in fact, may be the northeast extension of zone G which has been faulted to the north by several of the interpreted northwest-southeast striking faults zones. This unit does not have any definite magnetic signature.

CONCLUSIONS AND RECOMMENDATIONS:

Generally, the ground surveys were successful in locating and outlining the geological characteristics of the grid. A number of VLF zones were outlined and they also follow the geological environment and at least two correlate to a suspected iron formation, zone A and a geological contact, zone C.

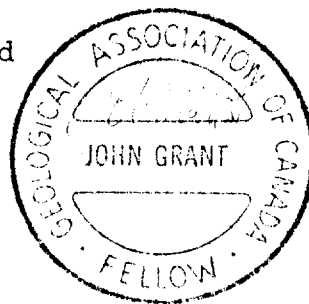
The magnetic survey coupled with the results of the Fraser filtered data suggest that the grid is cross cut by at least two different fault systems. The Destor-Porcupine, being the most predominant fault structure, strikes northeast-southwest across the grid and appears to have caused a number of east-west to northwest-southeast striking splay faults. One of the more predominant northwest-southeast striking faults is thought to be the southern extension of the Broulan Mine system and crosses the grid from the north end of line 2250E to the south end of 3100E. This system should be followed up further as it may be a good environment for gold mineralization. The parallel fault system to the west of this break strikes across lines 1800E to 2700E and should be followed up further in the event it is more in line with the Broulan system.

The VLF zone G should also be followed up further as it lies on and within these two cross faults.

Follow-up success of any and all of the above zones would result in the whole property being re-evaluated.

Respectfully submitted

J.C. Grant, CET, FGAC  
July, 1997.



---

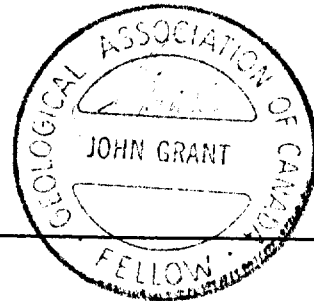
---

CERTIFICATE

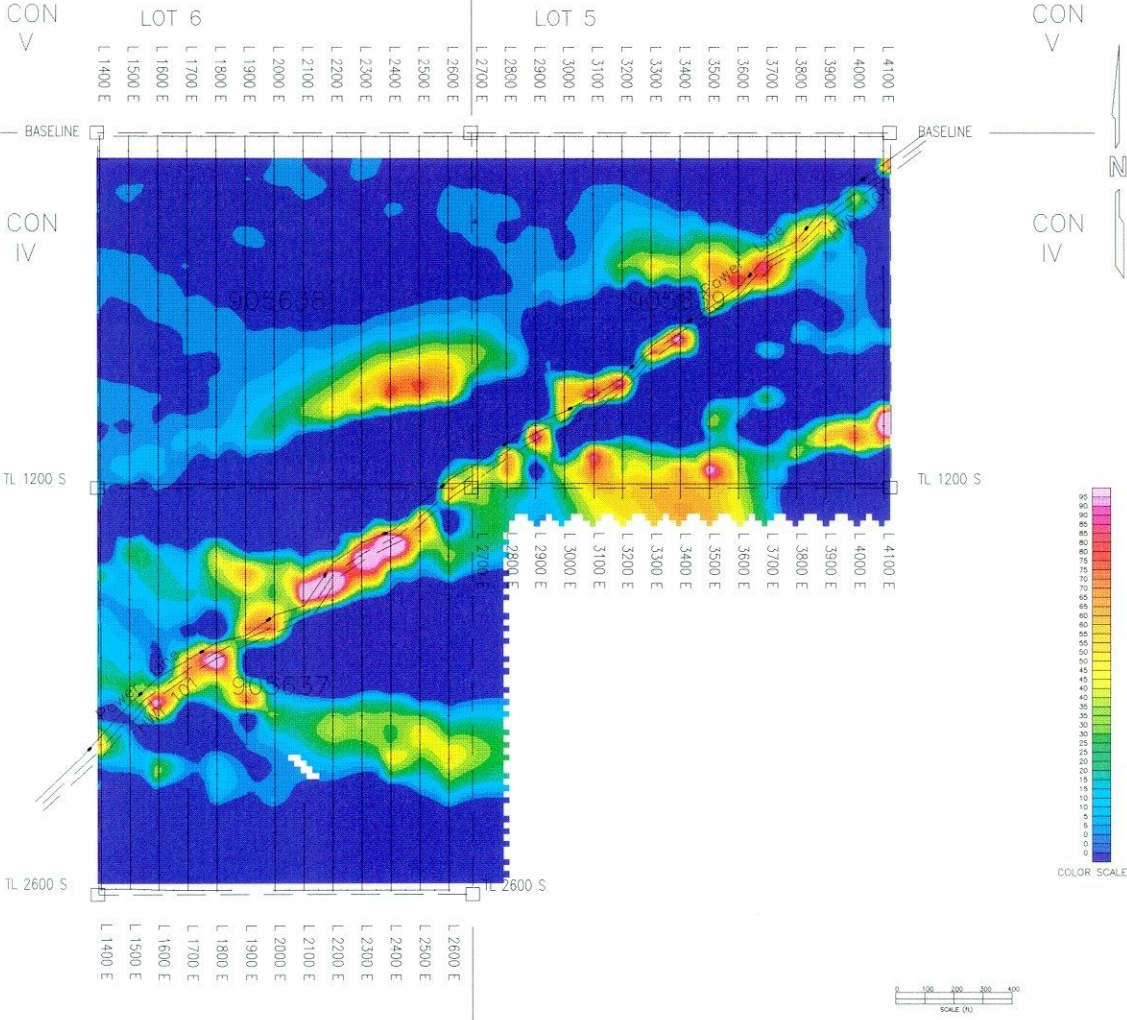
I, John C. Grant, hereby certify that:

- 1) I am a graduate technologist, (1975) of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology, Sudbury Campus. I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years), North Bay office and currently as Exploration Manager and Geophysicist for Exsics Exploration Limited since 1980.
- 2) I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984
- 3) I am a Fellow of the Geological Association of Canada, (FGAC), since 1986.
- 4) I have been actively engaged in my profession since May of 1975, including all aspects of exploration studies, surveys and interpretation.
- 5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the Property holders.


John Charles Grant, CET, FGAC.

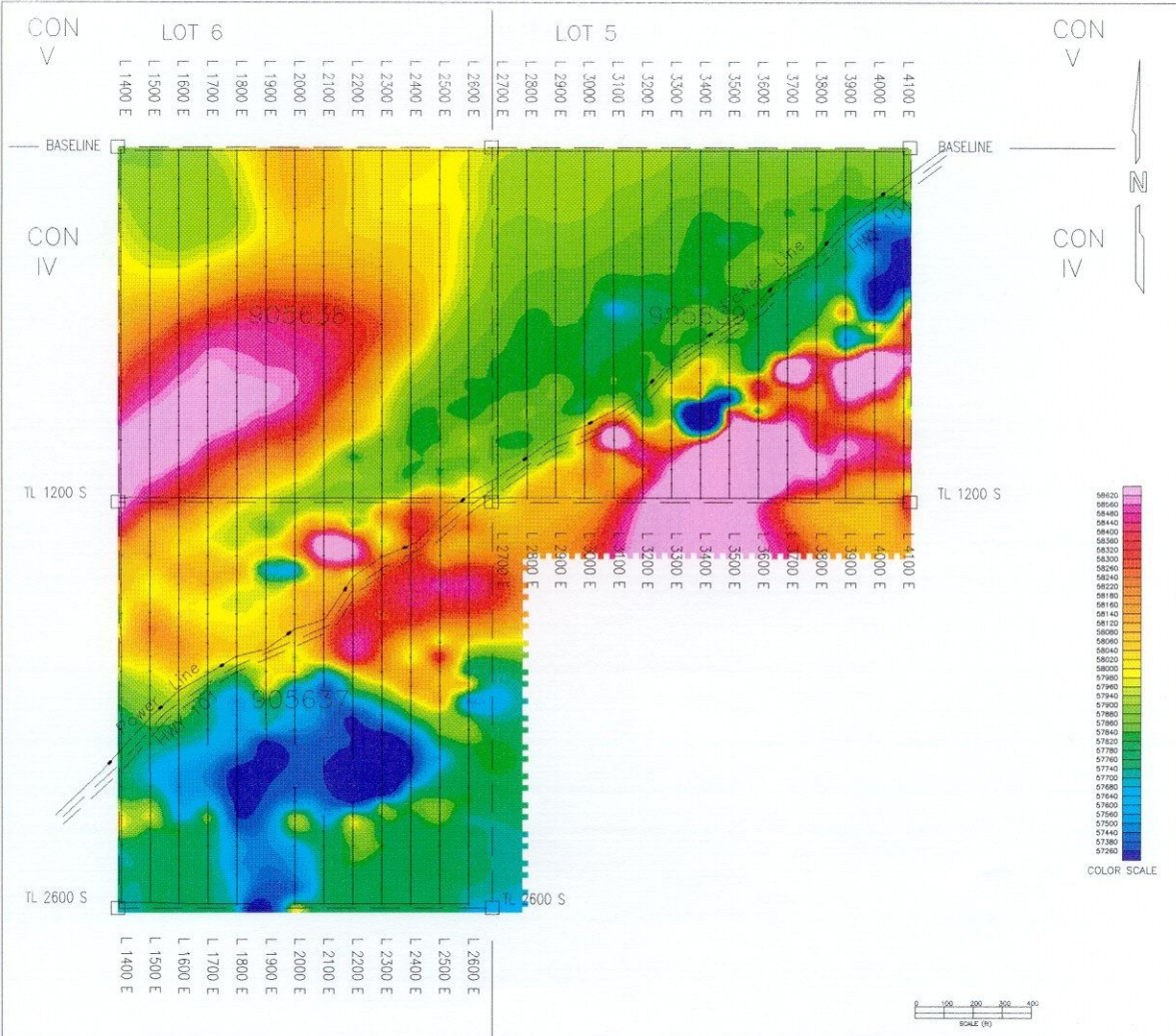







**LEGEND**  
 Instrument: SCINTREX ENVI MAG  
 Transmitter Station: NAA CUTLER MAINE  
 Frequency: 24.0 KHz  
 Values Filtered: INPHASE DIP ANGLE  
 Contour Interval: 0, 5, 10, 20, 40, 60, 80, 100, .....  
 Operator: J. DerMeuwen

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
<b>CLIENT: COLUMBIA METAL INC.</b> <b>PROPERTY: ALLERSTON PROPERTY</b>		
<b>TITLE: WHITNEY TWP.</b> <b>FRASER FILTERED VLF</b>		
Date: July 1997	Scale: 1"=200'	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-270



**LEGEND**  
 Instrument: SCINTREX ENI MAG  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 0.1 nano-teslas  
 Diurnal: Corrected by base station recorder  
 Contour Interval: 0, 20, 40, 60, 80, 100, .....  
 Reference Field: 57,800 gammas  
 Datum Subtracted: 57,000 gammas

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1680, P4N-2X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
CLIENT: COLUMBIA METAL INC.	
PROPERTY: ALLERSTON PROPERTY	
TITLE: WHITNEY TWP.	
<b>MAGNETOMETER SURVEY</b>	
Without power line & diamond drill hole contours	
Date: July 1997	Scale: 1"=200' NTS
Drawn: P.Gauthier	Interp: J.C.Grant / Job No.: E-270

*APPENDIX A*

# SCINTREX

## ENVI-MAG Environmental Magnetometer/Gradiometer

### Locating Buried Drums and Tanks?

The ENVI-MAG is the solution to this environmental problem. ENVI-MAG is an inexpensive, lightweight, portable "WALKMAG" which enables you to survey large areas quickly and accurately.

ENVI-MAG is a portable proton precession magnetometer and/or gradiometer, for geotechnical, archaeological and environmental applications where high production, fast count rate and high sensitivity are required. It may also be used for other applications, such as mineral exploration, and may be configured as a total-field magnetometer, a vertical gradiometer or as a base station.

#### The ENVI-MAG

- easily detects buried drums to depths of 10 feet or more
- more sensitive to the steel of a buried drum than EM or radar
- much less expensive than EM or radar
- survey productivity much higher than with EM or radar

### Features and Benefits

#### "WALKMAG"

##### Magnetometer/Gradiometer

The "WALKMAG" mode of operation sometimes known as "Walking Mag") is user-selectable from the keyboard. In this mode, data is acquired and recorded at the rate of 2 readings per second as the operator walks at a steady pace along a line. At desired intervals, the operator "triggers" an event marker by a single key stroke, assigning coordinates to the recorded data.

#### True Simultaneous Gradiometer

An optional upgrade kit is available to configure ENVI-MAG as a gradiometer to make true, simultaneous gradiometer measurements. Gradiometry is useful for geotechnical and archaeological surveys where small near surface magnetic targets are the object of the survey.

#### Selectable Sampling Rates

0.5 second, 1 second and 2 second reading rates user selectable from the keyboard.

#### Main features include:

- select sampling rates as fast as 2 times per second
- "WALKMAG" mode for rapid acquisition of data
- large internal, expandable memory
- easy to read, large LCD screen displays data both numerically and graphically
- ENVIMAP software for processing and mapping data

ENVI-MAG comprises several basic modules; a lightweight console with a large screen alphanumeric display and high capacity memory, a staff mounted sensor and sensor cable, rechargeable battery and battery charger, RS-232 cable and ENVIMAP processing and mapping software.

For gradiometry applications an upgrade kit is available, comprising an additional processor module for installation in the console, and a second sensor with a staff extender.

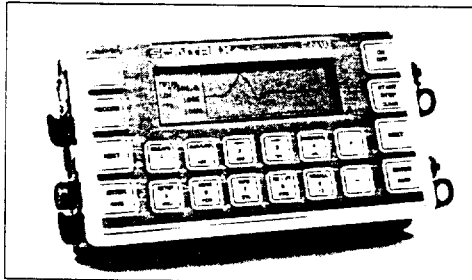


ENVI-MAG Proton Magnetometer in operation

For base station applications a Base Station Accessory Kit is available so that the sensor and staff may be converted into a base station sensor.

#### Large-Key Keypad

The large-key keypad allows easy access for gloved-hands in cold-weather operations. Each key has a multi-purpose function.



Front panel of ENVI-MAG showing a graphic profile of data and large-key keypad

#### Large Capacity Memory

ENVI-MAG with standard memory stores up to 28,000 readings of total field measurements, 21,000 readings of gradiometry data or 151,000 readings as a base station. An expanded memory option is available which increases this standard capacity by a factor of 5.

#### Easy Review of Data

For quality of data and for a rapid analysis of the magnetic characteristics of the survey line, several modes of review are possible. These include the measurements at the last four stations, the ability to scroll through any or all previous readings in memory, and a graphic display of the previous data as profiles, line by line. This feature is very useful for environmental and archaeological surveys.

#### Highly Productive

The "WALKMAG" mode of operation acquires data rapidly at close station intervals, ensuring high-definition results. This increases survey productivity by a factor of 5 when compared to a conventional magnetometer survey.

#### "Datacheck" Quality Control of Data

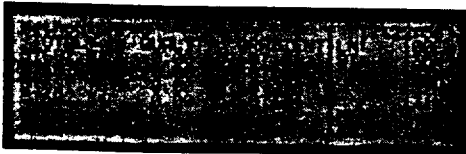
"Datacheck" provides a feature wherein at the end of each survey line, data may be reviewed as a profile on ENVI-MAG's screen. Datacheck confirms that the instrument is functioning correctly and



allows the user to note the magnetic relief (anomaly) on the line.

### Large Screen Display

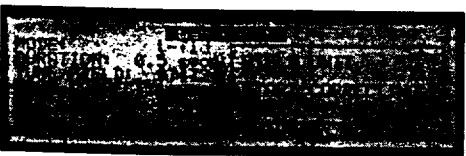
"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



Close-up of the ENVI-MAG screen showing data presented after each reading

### Interactive Menus

The set-up of ENVI-MAG is menu-driven, and minimizes the operator's learning time, and on-going tasks.



Close-up of display of ENVI-MAG showing interactive set-up menu

## Specifications

### Total Field Operating Range

20,000 to 100,000 nT (gammas)

### Total Field Absolute Accuracy

+/- 1nT

### Sensitivity

0.1 nT at 2 second sampling rate

### Tuning

Fully solid state. Manual or automatic, keyboard selectable

### Cycling (Reading) Rates

0.5, 1 or 2 seconds, up to 9999 seconds for base station applications, keyboard selectable

### Gradiometer Option

Includes a second sensor, 20 inch (1/2m) staff extender and processor module

### "WALKMAG" Mode

0.5 second for walking surveys, variable rates for hilly terrain

### Digital Display

LCD "Super Twist", 240 x 64 dots graphics, 8 line x 40 characters alphanumerics

### Display Heater

Thermostatically controlled, for cold weather operations

### Keyboard Input

17 keys, dual function, membrane type

### Notebook Function

32 characters, 5 user-defined MACRO's for quick entry

### Rechargeable Battery and Battery Charger

An "off-the-shelf" lead-acid battery and charger are provided as standard. The low-cost "Camcorder" type battery is available from electronic parts distributors everywhere.

### HELP-Line Available

Purchasers of ENVI-MAG are provided with a HELP-Line telephone number to call in the event assistance is needed with an application or instrumentation problem.

### ENVIMAP Processing and Mapping Software

Supplied with ENVI-MAG, and custom designed for this purpose, is easy-to-use, very user-friendly, menu driven data processing and mapping software called ENVIMAP. This unique software appears to the user to be a single program, but is in fact a sequence of separate programs, each performing a specific task. Under the menu system, there are separate programs to do the following:

- read the ENVI-MAG data and reformat it into a standard compatible with the ENVIMAP software
- grid the data into a standard grid format
- create a vector file of posted values

with line and baseline identification that allows the user to add some title information and build a suitable surround

- contour the gridded data
- autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 ins. wide dot-matrix printer
- rasterize and output the results of step e) to the printer

ENVIMAP is designed to be as simple as possible. The user is required to answer a few basic questions asked by ENVIMAP, and then simply toggles "GO" to let ENVIMAP provide default parameters for the making of the contour map. The user can modify certain characteristics of the output plot. ENVIMAP'S menu system is both keyboard and mouse operable. HELP screens are integrated with the menu system so that HELP is displayed whenever the user requests it.

### Options Available

- True simultaneous gradiometer upgrade
- Base station upgrade
- Display heater for low temperature operations
- External battery pouch

### Standard Memory

Total Field Measurements: 28,000 readings  
Gradiometer Measurements: 21,000 readings  
Base Station Measurements: 151,000 readings

### Expanded Memory

Total Field Measurements: 140,000 readings  
Gradiometer Measurements: 109,000 readings  
Base Station Measurements: 750,000 readings

### Real-Time Clock

Records full date, hours, minutes and seconds with 1 second resolution, +/- 1 second stability over 12 hours

### Digital Data Output

RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off

### Analog Output

0 - 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1,000 or 10,000 nT full scale

### Power Supply

Rechargeable "Camcorder" type, 2.3 Ah, Lead-acid battery.

12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer,

External 12 Volt input for base station operations

Optional external battery pouch for cold weather operations

### Battery Charger

110 Volt - 230 Volt, 50/60 Hz

### Operating Temperature Range

Standard 0° to 60°C  
Optional -40°C to 60°C

### Dimensions

Console - 10 x 6 x 2.25 inches  
(250 mm x 152 mm x 55 mm)

T.F. sensor - 2.75 inches dia. x 7 inches  
(70 mm x 175 mm)

Grad. sensor and staff extender - 2.75 inches dia. x 26.5 inches (70 mm x 675 mm)

T.F. staff - 1 inch dia. x 76 inches (25 mm x 2 m)

### Weight

Console - 5.4 lbs (2.45 kg)  
with rechargeable battery

T. F. sensor - 2.2 lbs (1.15 kg)

Grad. sensor - 2.5 lbs (1.15 kg)

Staff - 1.75 lbs (0.8 kg)

# SCINTREX

### Head Office

222 Snidercroft Road  
Concord, Ontario, Canada L4K 1B5  
Telephone: (905) 669-2280  
Fax: (905) 669-6403 or 669-5132  
Telex: 06-964570

### In the USA:

Scintrex Inc.  
85 River Rock Drive  
Unit 202  
Buffalo, NY 14207  
Telephone: (716) 298-1219  
Fax: (716) 298-1317

APR 07 '98 16:08 FR GEOSCIENCE ASSESSMENT 7052677389 TO 817052677389 P.01/01



Declaration of Assessment Work Performed on Mining Land

Transaction Number (office use) 114860.80382 Assessment File Research Imaging

Subsection 65(2) and 66(3), R.S.O. 1990



42A11SE2004 2.18410 WHITNEY

900

Ministry of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Act used to review the assessment work and correspond with the mining land holder. Mining Recorder, Ministry of Northern Development and Mines, 6th Floor.

Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Form with fields for Name, Address, Client Number, Telephone Number, and Fax Number. Handwritten entries include Ralph Allerston, 543 Pine St. N., Timmins, Ont., and Client Number 101930.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Form with checkboxes for Geotechnical, Physical, and Rehabilitation work. Includes fields for Work Type (Linecutting, VLF-EM, Magnetics, Plotting & Reports), Office Use, Commodity, Total \$ Value of Work Claimed (16,960), Dates Work Performed (07/1997 to 19/07/1997), Mining Division (Timmins), and Resident Geologist (Timmins).

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Address, Telephone Number, and Fax Number. Handwritten entries include Exsio Exp Ltd., Box 1880 Timmins, Ont., and Telephone Number 705 267 4151.

RECEIVED stamp dated MAR 31 1998 and APR 07 1998. Includes fields for Name, Address, Telephone Number, and Fax Number.

4. Certification by Recorded Holder or Agent

Certification form signed by Ken Lapierre, dated March 30/98. Includes fields for Signature of Recorded Holder or Agent, Date, Agent's Address, Telephone Number, and Fax Number.

APR 07 '98 16:11

\*\* TOTAL PAGE.01 \*\* 17852677389 PAGE.02

Form with fields for Address and Fax Number. Includes a stamp: GEOSCIENCE ASSESSMENT OFFICE.

4. Certification by Recorded Holder or Agent. Signed: Ken Lapierre, Dated: June 28/98

Certification form signed by Ken Lapierre, dated March 30/98. Includes fields for Signature of Recorded Holder or Agent, Date, Agent's Address, Telephone Number, and Fax Number.

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 905 637	1	3,653	750	2903'	
2 905 638	1	3,653	750	2903'	
3 905 639	1	3,654	750	2903'	
4 905 640	1	0	750'		
5 905 796	1	0	750'		
6 905 797	1	0	750'		
7 905 798	1	0	750'		
8 1224287	2	0	1500'		
9 1224284	1	0	750'		
10 946296	1	0	750'		
11 946297	1	0	750'		
12 946298	1	0	750'		
13 948380	1	0	1210'		
14					
15					
Column Totals		10,960	10,960		

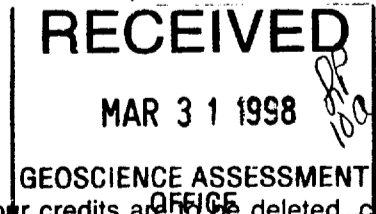
I, Ken Lapierre, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized to Working: Ken Lapierre Date: \_\_\_\_\_

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

<b>For Office Use Only</b> Received Stamp 	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Linecutting	19.0 Km	265 /km	5035.00
Mos/VLF Drifts	19.0 Km	175 /km	3325.00
Computer work	29 hours	45 /hr.	1305.00
Plots & Reproductions		-	345.00
Reports		-	950.00
		Sub	10960.00
		GST	767.20
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
<b>Transportation Costs</b>			
<b>Food and Lodging Costs</b>			

**RECEIVED** Total Value of Assessment Work 11,727.20  
MAR 31 1998 *JP*

GEOSCIENCE ASSESSMENT OFFICE

**Calculations of Filing Discounts:**

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK  $\times 0.50 =$  Total \$ value of worked claimed.

**Note:**  
 - Work older than 5 years is not eligible for credit.  
 - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

**Certification verifying costs:**

I, Ken Lapierre (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work Form as Agent I am authorized to make this certification (recorded holder, agent, or date company position with signing authority)

MAR 30 1998  
13:25  
GEOSCIENCE ASSESSMENT DIVISION

Signature Ken Lapierre Date March 30/98





Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5881

June 5, 1998

RALPH E. ALLERSTON  
543 PINE STREET, NORTH  
TIMMINS, ONTARIO  
P4N-6L9

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.18410

**Status**

**Subject: Transaction Number(s):** W9860.00382 **Deemed Approval**

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [benetest@epo.gov.on.ca](mailto:benetest@epo.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

---

**Submission Number:** 2.18410

**Date Correspondence Sent:** June 05, 1998

**Assessor:** Steve Beneteau

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9860.00382	905637	WHITNEY	Deemed Approval	June 03, 1998

**Section:**

14 Geophysical VLF

14 Geophysical MAG

Note, in subsequent submissions of this nature, please plot geophysical readings on a separate map from the contours. Usually when readings and contours exist on the same map, portions of the data become illegible.

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

**Recorded Holder(s) and/or Agent(s):**

Ken Lapierre  
TIMMINS, ONT, CANADA

Assessment Files Library  
Sudbury, ON

RALPH E. ALLERSTON  
TIMMINS, ONTARIO

---

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary (International)	Railroad (Single Track)
Boundary (District, Township, Indian Reserve)	Railroad (Double Track)
Approximate Lot, Concession	Abandoned
Paris Boundary	Urban
Bridge (Road, Railroad)	Highway, County
Building	Tennessee
Chimney	Access (road of doubtful maintenance or unimproved driveway)
Cliff, Pit, Pile	Road (Main Road, Garage Alley)
Contours	Rapids
Interpolated	Double line river with multiple rapids
Approximate	Reservoir
Depression	River, Stream, Canal
Control Points (Horizontal)	Approximate (Assumed)
(Vertical)	Structure of Dam
Culvert	Lock
Falls	Spot Elevation (Lake elevation) 100.0
Depth (in river)	Tower
Fence, Hedge, Wall	Transmission Line
Feature Outline (Construction features, etc.)	Tunnel
Flooded Land	Utility Poles
Lock	Wharf, Dock, Pier
Marsh or Swamp	Wooded Area
Nest	
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.A.S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

APPLICATION PENDING UNDER PUBLIC LANDS ACT SURFACE RIGHTS WITHDRAWN

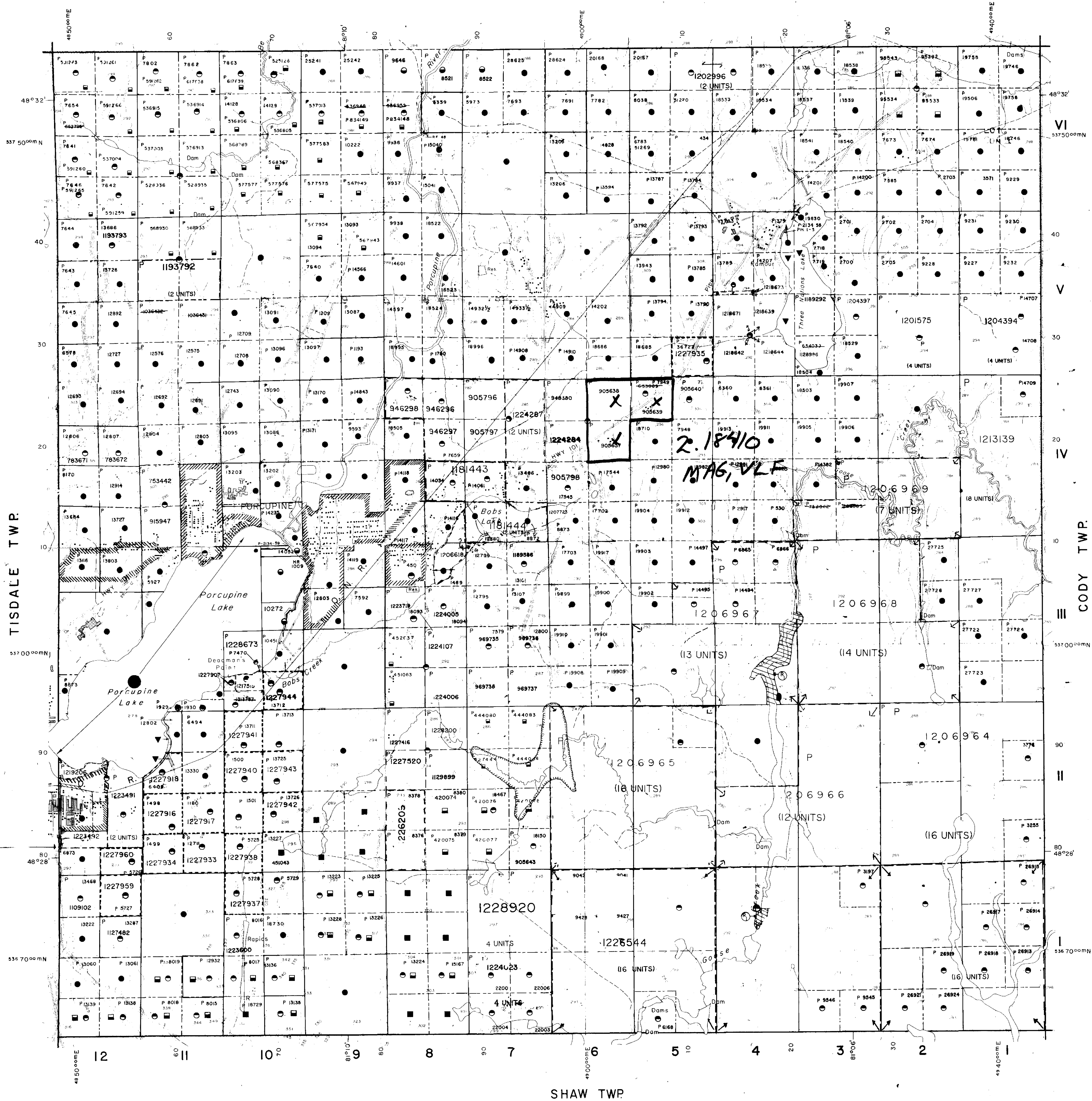
THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1994/95 FURTHER INFORMATION AVAILABLE ON FILE

NOTE:

BOUNDARY CHANGED SEPT. 23, 1994 AS PER G. SHERMAN

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE TERRITORY.

HOYLE TWP



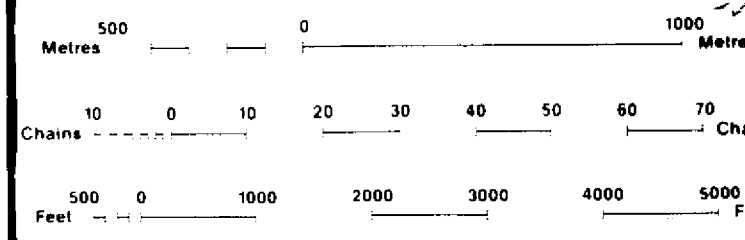
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES (Townships, Base Lines, Etc.)	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
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-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000  
GRID ZONE: 17

FLOODING RIGHTS RESERVED TO THE CROWN - DUCKS UNLIMITED - SEE LAND ROLL FILE.

DATE OF ISSUE  
JUN 03 1995

PROVINCIAL RECORDING OFFICE - SUDBURY

TOWNSHIP  
**WHITNEY**  
M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**COCHRANE**



ORIGINAL COMPILATION JULY 1984  
CHECKED BY:  
REVISED:  
ACTIVATED BY: D.C. - JULY 26, 1994

Number  
**G-3975**



CON  
V

LOT 6

LOT 5

CON  
V

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E L 2700 E

L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

BASELINE

BASELINE

CON  
IV

CON  
IV



905638






905638

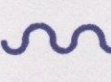


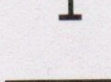
TL 1200 S

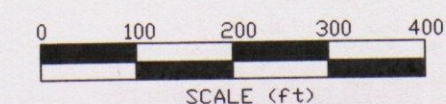
TL 1200 S

L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

LEGEND

-  DESTOR PORCUPINE FAULT
-  IRON FORMATION
-  SEDIMENTS
-  FELSIC
-  ULTRAMAFIC

-  FAULT 2.18410
-  BROULAN MINE SOUTHERN FAULT EXTENSION
-  DRILL HOLE 0.045 oz/t.Au 1.3'
-  VLF CONDUCTOR




TL 2600 S

TL 2600 S

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E

LOT 6

LOT 5

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

CLIENT: COLUMBIA METAL INC. *JA*

PROPERTY: ALLERSTON PROPERTY

TITLE: WHITNEY TWP.  
 GEOPHYSICAL COMPILATION

Date: July 1997 Scale: 1"=200' NTS:  
 Drawn: P.Gauthier Interp: J.C.Grant Job No.: E-270





CON

LOT 6

LOT 5

CON

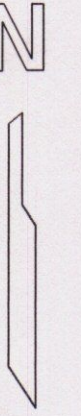
L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

BASELINE

BASELINE

CON  
IV

CON  
IV



TL 1200 S

TL 1200 S

TL 2600 S

TL 2600 S

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E

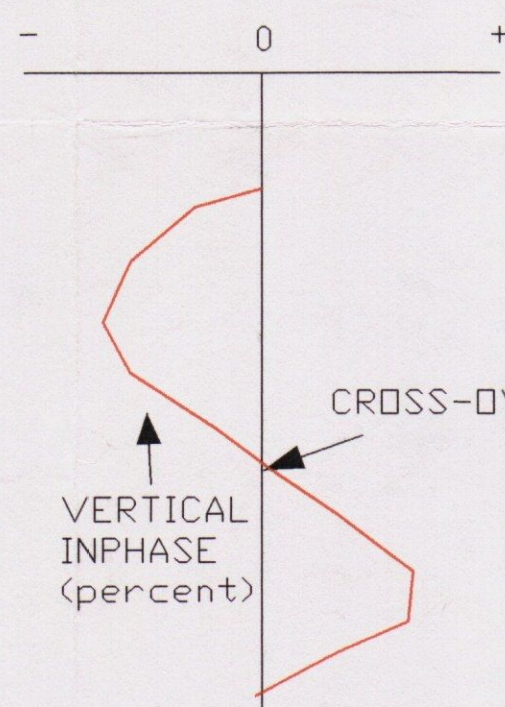
LOT 6

LOT 5



LEGEND

Instrument: SCINTREX ENVI MAG  
 Transmitter Station: NAA CUTLER MAINE  
 Frequency: 24.0 KHz  
 Parameters Measured: INPHASE DIP ANGLE  
 Vertical Scale: 1cm=40%  
 Operator: J. DerWeduwen



TRANSMITTER  
 90° 115° Cutler Maine  
 SURVEY  
 2.18410



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

CLIENT: COLUMBIA METAL INC.  
 PROPERTY: ALLERSTON PROPERTY  
 TITLE: WHITNEY TWP.  
 VLF DIP ANGLE

Date: July 1997 Scale: 1"=200' NTS:  
 Drawn: P. Gauthier Interp: J.C. Grant Job No.: E-270



CON

LOT 6

LOT 5

CON

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

BASELINE

BASELINE

CON  
IV

CON  
IV

TL 1200 S

TL 1200 S

TL 2600 S

TL 2600 S

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E

LOT 6

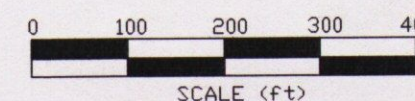
LOT 5



42A11SE2004 2.18410 WHITNEY 230

LEGEND

Instrument: SCINTREX ENVI MAG  
 Transmitter Station: NAA CUTLER MAINE  
 Frequency: 24.0 KHz  
 Values filtered: INPHASE DIP ANGLE  
 Contour Interval: 0.5,10,20,40,60,80,100,.....  
 Operator: J. DerWeduwen



2.18410



EXSICS EXPLORATION LTD.

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

CLIENT: COLUMBIA METAL INC.

PROPERTY: ALLERSTON PROPERTY

TITLE: WHITNEY TWP.

FRASER FILTERED VLF

Date: July 1997

Scale: 1"=200'

NTS:

Drawn: P. Gauthier

Interp: J.C. Grant

Job No.: E-270



CON

LOT 6

LOT 5

CON

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

BASELINE

BASELINE

CON  
IV

CON  
IV

TL 1200 S

TL 1200 S

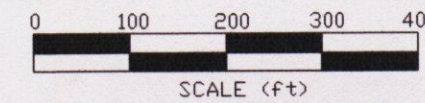
TL 2600 S

TL 2600 S

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E

LOT 6


LOT 5



**LEGEND**  
 Instrument: SCINTREX ENVI MAG  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 0.1 nano-teslas  
 Diurnals: Corrected by base station recorder  
 Contour Interval: 0,20,40,60,80,100,.....  
 Reference Field: 57,800 gammas  
 Datum Subtracted: 57,000 gammas



42A11SE2004 2.18410 WHITNEY 240

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: COLUMBIA METAL INC.		
PROPERTY: ALLERSTON PROPERTY		
TITLE: WHITNEY TWP.		
<b>MAGNETOMETER SURVEY</b> Without power line & diamond drill hole contours		
Date: July 1997	Scale: 1"=200'	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-270

2.18410



CON  
V

LOT 6

LOT 5

CON  
V

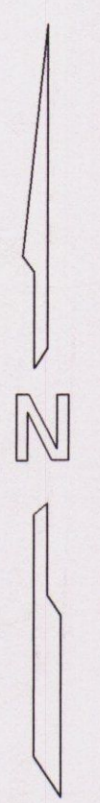
L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E L 2700 E L 2800 E L 2900 E L 3000 E L 3100 E L 3200 E L 3300 E L 3400 E L 3500 E L 3600 E L 3700 E L 3800 E L 3900 E L 4000 E L 4100 E

BASELINE

BASELINE

CON  
IV

CON  
IV



TL 1200 S

TL 1200 S

TL 2600 S

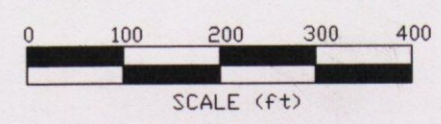
TL 2600 S

L 1400 E L 1500 E L 1600 E L 1700 E L 1800 E L 1900 E L 2000 E L 2100 E L 2200 E L 2300 E L 2400 E L 2500 E L 2600 E

LOT 6

LOT 5

2.18410



**LEGEND**  
 Instrument: SCINTREX ENVI MAG  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 0.1 nano-teslas  
 Diurnals: Corrected by base station recorder  
 Contour Interval: 0,20,40,60,80,100,.....  
 Reference Field: 57,800 gammas  
 Datum Subtracted: 57,000 gammas



42A11SE2004 2.18410 WHITNEY 250

	EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
	CLIENT:	COLUMBIA METAL INC.
PROPERTY:	ALLERSTON PROPERTY	
TITLE:	WHITNEY TWP.	
<b>MAGNETOMETER SURVEY</b> With power line & diamond drill hole contours		
Date: July 1997	Scale: 1"=200'	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-270