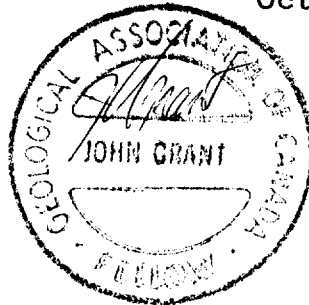


2. 17909

GEOPHYSICAL REPORT  
FOR  
PROSPECTOR'S ALLIANCE INC.  
ON THE  
KERR ISLAND PROPERTY  
CARSCALLEN TOWNSHIP  
PORCUPINE MINING DIVISION  
NORTHEASTERN, ONTARIO

Prepared by: J.C. Grant, CET, FGAC  
October, 1997.



42A05NE0164 2.17909 CARSCALLEN

TABLE OF CONTENTS

	Page
INTRODUCTION.....	1
PROPERTY LOCATION AND ACCESS.....	1
CLAIM GROUP.....	1
PERSONNEL.....	2
GROUND PROGRAM.....	2, 3
GEOLOGY OF JOWSEY PROSPECT.....	4
SURVEY RESULTS.....	4
CONCLUSIONS AND RECOMMENDATIONS.....	5
CERTIFICATE	
APPENDICIES:	
	A: SCINTREX ENVI SYSTEMS BRGM, OMNI IV SYSTEM
	B: APEX PARAMETRICS, MAXMIN II SYSTEM
LIST OF FIGURES:	
	1: LOCATION MAP 2: PROPERTY LOCATION MAP 3: CLAIM MAP
POCKET MAPS:	
	CONTOURED TOTAL FIELD MAGNETIC PROFILE HLEM MAP, 1777HZ AND 444HZ



42A05NE0164 2.17909 CARSCALLEN

010C

INTRODUCTION:

The services of Exsics Exploration Limited were retained by Mr. Peter Vamos on the behalf of Prospector's Alliance Inc. to complete a linecutting and ground geophysical program on their claims located in Carscallen Township of the Porcupine Mining Division of Northeastern, Ontario. Figure 1.

The purpose of this program was to test the property for a geological setting which would be considered a favourable horizon for gold deposition.

The property was first prospected by S. Beanland and F. Hurst in 1926 by trenching and sampling which exposed gold bearing shear zones in granites on the western part of the claims and later, wire gold associated with quartz-carbonate veinlets in iron formation was located on the eastern section of the property. several ore intersections were reported along strike from the Jowsey vein, ( survey of mines 1947, p. 174).

In 1936 the property was acquired by Jowsey denton Gold Mines Limited who conducted considerable work and some additional mineralized showings have been exposed.

The linecutting and geophysical surveys were completed between the months of August and October, 1997. In all, a total of 7.85 kilometers were cut and read across the claim group.

PROPERTY LOCATION AND ACCESS:

The Kerr Island property is located in the south central section of Carscallen Township, approximately 25 kilometers west-southwest of the City of Timmins. More specifically it is located northeast of Parliment Lake and approximately 800 meters north of Mahoney Lake. Highway 101 west is situated approximately 1600 meters southeast of the claim group. Figure 2.

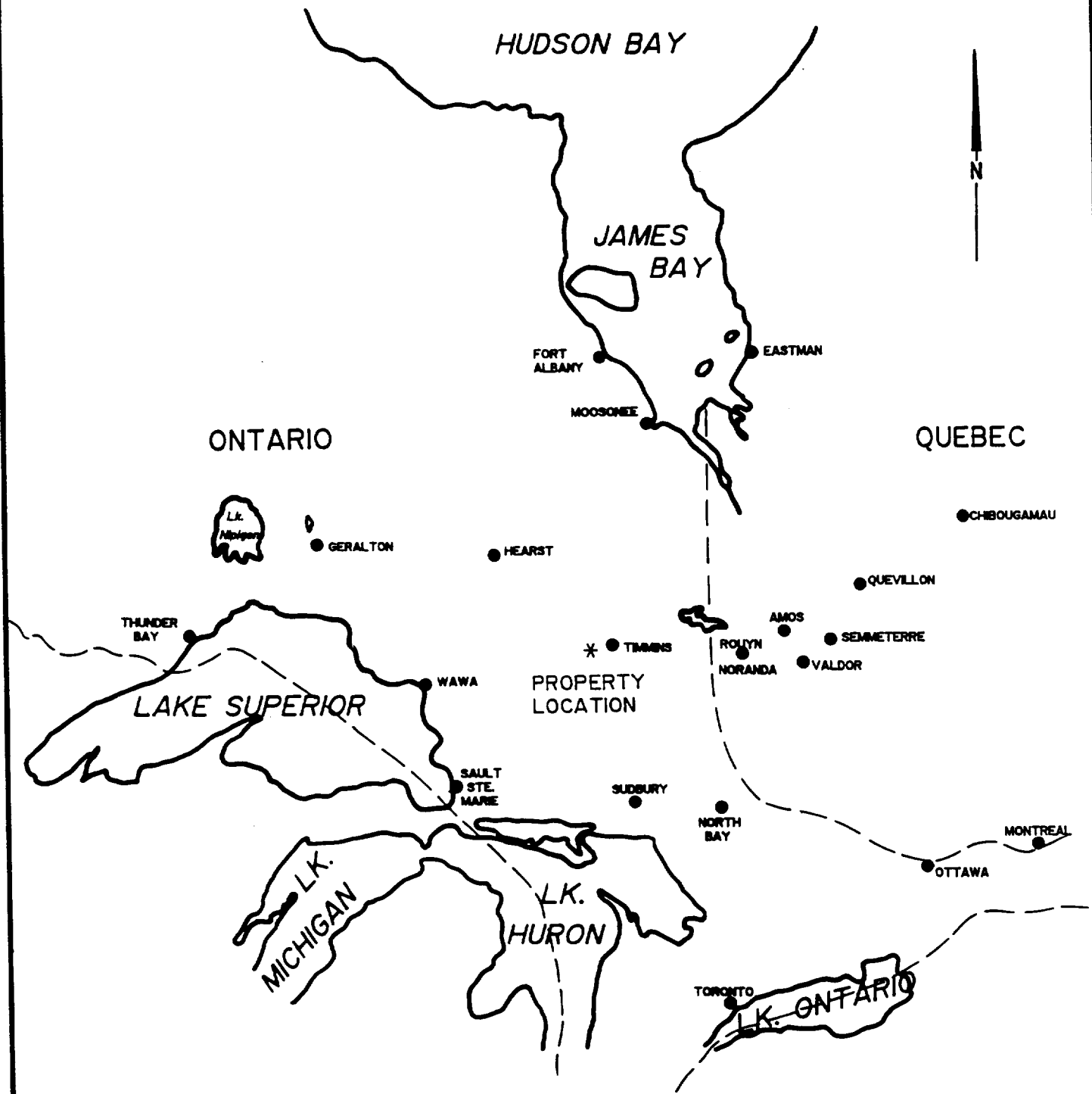
Access to the claim group during the survey period was ideal. Highway 101 west provides drivable access to a good gravel road that runs north through Denton and on into Carscallan Township. A series of old roads and trails provided reasonably good access to the north and west sections of the grid. Travelling time from Timmins to the grid was about 45 minutes.


CLAIM GROUP:

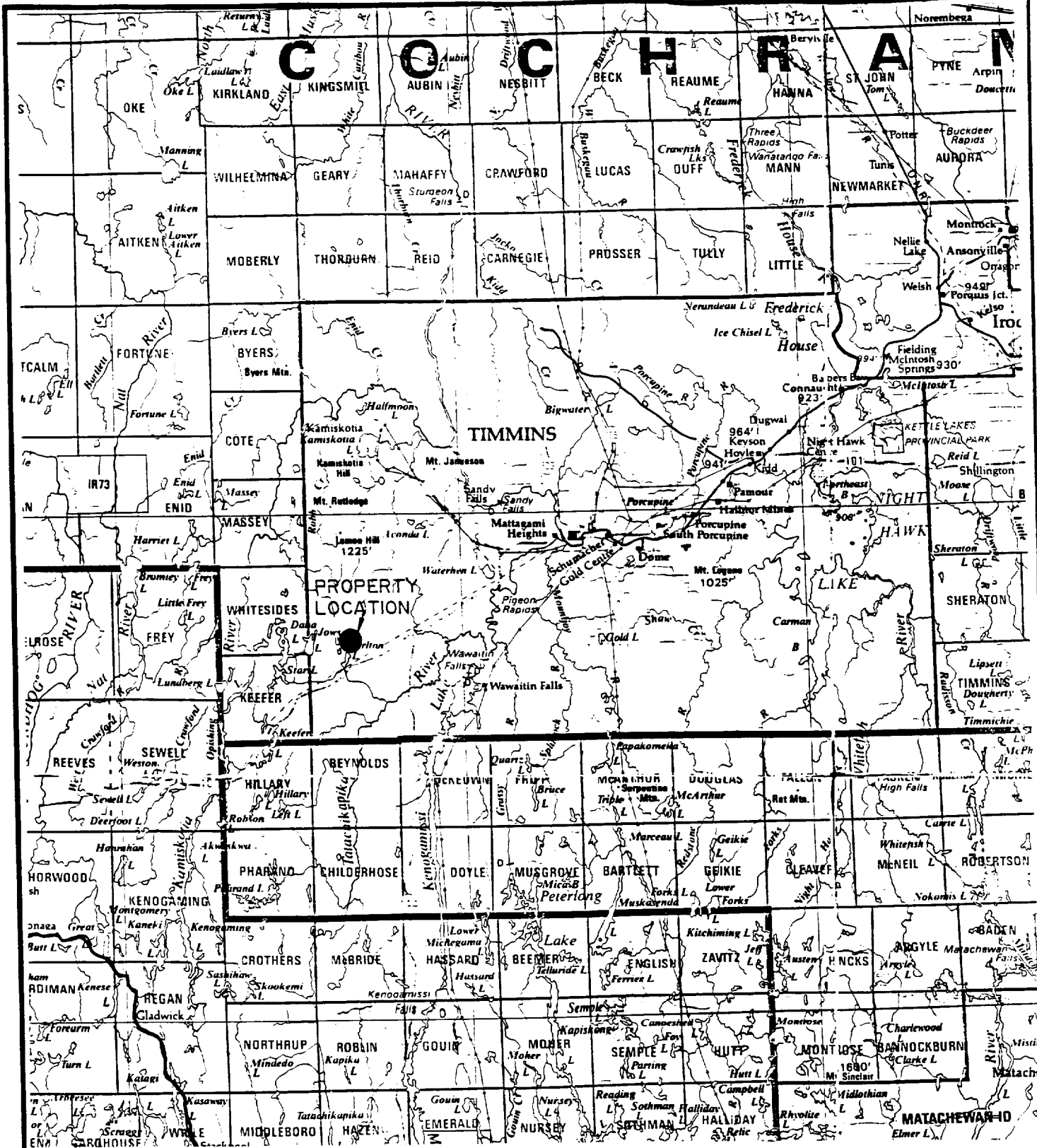
The claim numbers which make up the Kerr Island Property are as follows.

P-1213580..... 1 unit  
P-1190045..... 1 unit

Refer to figure 3 copied from MNDM Plan Map G-3040, Carscallen Township, Scale 1:20,000.



		
<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
<b>CLIENT:</b> PROSPECTORS ALLIANCE INC.		
<b>PROPERTY:</b> KERR ISLAND PROPERTY		
<b>TITLE:</b> CARSCALLEN TWP. LOCATION MAP		
Fig. 1		
<b>Date:</b> Oct. 1997	<b>Scale:</b> 1"=25miles	<b>MNDM Plan#:</b>
<b>Drawn:</b> P. Gauthier	<b>Interp:</b> J.C. Grant	<b>Job No.</b> E-271



**EXSIC EXPLORATION LTD.**  
 P.O. Box 1880, P4M-TX1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4511

---

**CLIENT:** PROSPECTORS ALLIANCE INC.

---

**PROPERTY:** KERR ISLAND PROPERTY

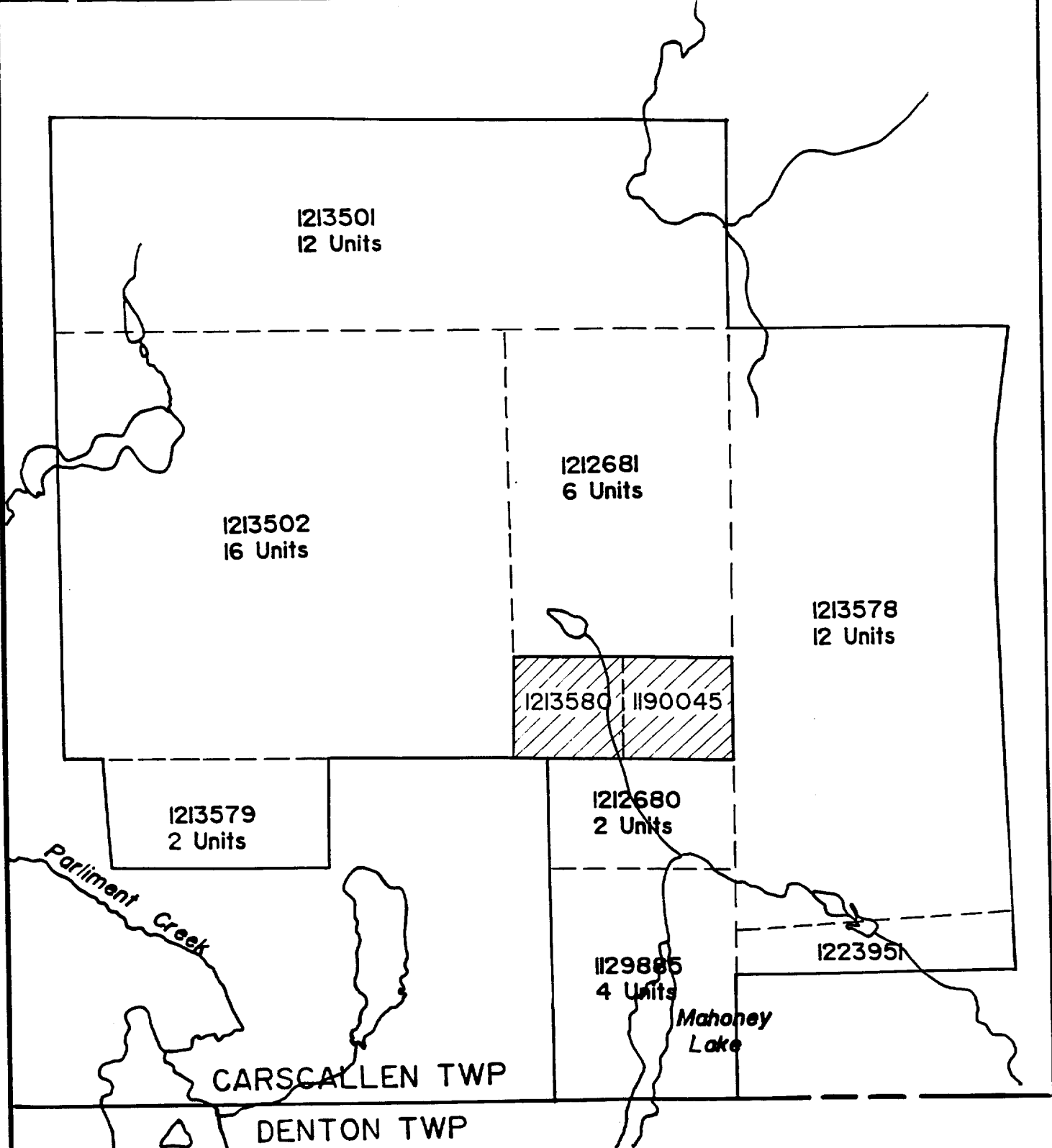
---

**TITLE:** CARSCALLLEN TWP.

**PROPERTY LOCATION** Fig. 2

Date: Oct. 1997	Scale: 1:600,000	MNDM Plan#: 22-6
Drawn:	Interp: J.C. Grant	Job No. E-271






		
<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: PROSPECTORS ALLIANCE INC.		
PROPERTY: KERR ISLAND PROPERTY		
TITLE: CARSCALLEN TWP. CLAIM SKETCH		
Date: Oct. 1997	Scale: 1:20,000	MNDM Plan#: G-3040
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-271

Fig. 3

PERSONNEL:

The field crews directly responsible for the collection of all raw data were as follows.

Magnetic Survey:

J.DerWeduwen.....South Porcupine, Ontario  
E.Jaakkola.....Timmins, Ontario

MaxMin Survey:

W.Pearson.....Timmins, Ontario  
A. Chaumont.....Timmins, Ontario

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

GROUND PROGRAM:

The ground program was completed in three stages. The first stage was to establish a detailed metric grid across the entire property in both a north-south direction and an east-west direction. This was done utilizing a 100 meter line spacing and 25 meter station spacing in both directions.

Once this was completed the grid was then covered first by a detailed Total Field Magnetic survey which was completed on the entire cut grid and then a follow-up, horizontal loop, electromagnetic, (HLEM) survey which was completed over lines 400MS, 300MS, 200MS and 100MS of the grid.

The results of these two surveys will be discussed seperately and in detail.

TOTAL FIELD MAGNETIC SURVEY:

Once the grid was established across the property, all of the lines were covered by the magnetic survey. This was done utilizing the Scintrex Envi Mag System and the BRGM, OMNI IV system. Specifications for these units can be found as Appendix A of this report.

The following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	25 meters
Reading interval.....	12.5 meters
Diurnal monitor.....	Base station recorder
Base record interval.....	30 seconds
Reference field.....	58,000 gammas
Datum subtraction.....	57,500 gammas
Unit accuracy.....	+/- 0.1 gamma
Parameters measured.....	Earth's total magnetic field

Once the data was collected, corrected and levelled it was plotted onto a base map at a scale of 1:5000 and contoured at 20 gamma intervals where possible. A black and white copy of this contour map is included in the back pocket of this report.

The third phase of the ground program consisted of an HLEM survey being read across select lines of the grid. This survey was completed using the Apex Parametrics, MaxMin 11 system. Specifications for these units can be found as Appendix B of this report.

The following parameters were kept constant throughout the survey procedure.

Linespacing.....	100 meters
Station spacing.....	25 meters
Coil seperation.....	50 meters
Theoretical search depth range....	25-35 meters
Frequencies recorded.....	1777 hz, 444 hz.
Parameters measured.....	Inphase and quadrature components of the secondary field, in percent.
Unit accuracy.....	+/- 0.5 percent.

The collected data was then plotted onto base maps at a scale of 1:5000, one base map for each frequency read, and the results were then profiled at 1 cm to +/- 10 percent.

All conductor axis were placed onto the base maps and interpreted for depth and conductivity where possible. A copy of these base maps with interpretation are included in the back pocket of this report.



GEOLOGY OF JOWSEY PROSPECT:

The following is a brief description of the geology of the Jowsey Property as described in the survey of Mines, 1947. p.174.

"A folded bed of iron formation 17 feet wide in Keewatin basalts strikes north 40 degrees east, and consists of quartz and magnetite. Quartz-carbonate veinlets in the iron formation contain wire gold. On the western part of the property gold is present in shear zones in granite. Several ore intersections were reported along strike from the Jowsey vein. (survey of Mines, 1947,p.174).

SURVEY RESULTS:

The ground surveys were successful in outlining the suspected geological signature of the claim group. The HLEM survey was successful in locating two parallel conductors on the grid. Each of the two zones will be discussed seperately and in detail.

The first HLEM conductor strikes north-northwest across lines 400MS to 100MS and continues off of the grid in both directions. This zone parallels the strike of the creek in the vicinity and appears to relate to a legitimate bedrock conductor situated at a depth of 25 to 30 meters with a conductivity of 40 mhos.

There is direct magnetic high association with the north section of the zone but the central and southern section of the zone lies along the western edge of a broad magnetic high.

The second HLEM conductor was noted on line 100MS and appears to be striking off of the grid to the north. The zone represents a strong bedrock conductor situated at a depth of 20 to 30 meters with a good conductivity of 22 to 90 mhos. The conductor has a direct magnetic association that also continues off of the grid to the north.

The magnetic survey was successful in outlining the geological characteristics of the grid as well. The most predominant structure probably relates to the folded iron formation that is known to exist on the property. The distortion in the magnetic signature may be due to the presence of dike material and or shearing and faulting.

The northeast structure is apparent in the magnetics if the survey results of the grid covering the surrounding ground is incorporated into this claim group.

CONCLUSIONS AND RECOMMENDATIONS:

The magnetic high unit which has been well defined on the north and northeast section of the grid probably relates to the known folded iron formation which was host to the historical wire gold discovery . This iron formation appears to have been cross cut by a diabase dike and has been subjected to shearing and faulting.

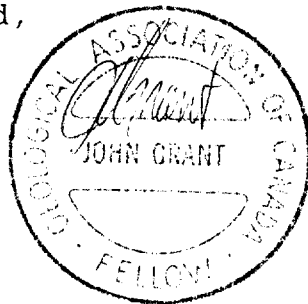
The HLEM conductors appear to relate to legitimate bedrock conductors that are well within the search depth capabilities of the survey. The western conductor may relate to a known and mapped arsenopyrite stringer that was mapped in outcrop to the east of the creek.

The eastern HLEM conductor probably relates to the iron formation that was cross cut by the dike. The HLEM response is on the eastern flank of the suspected dike.

A follow-up program consisting of two short drill holes, one hole in each conductor should be done to explain their sources. The priority would be in and around the iron formation due to past success.

Respectfully submitted,

J.C.Grant, CET, FGAC  
October, 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.

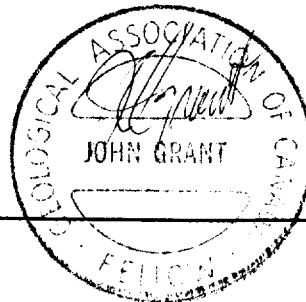
2) I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984

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.



*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.

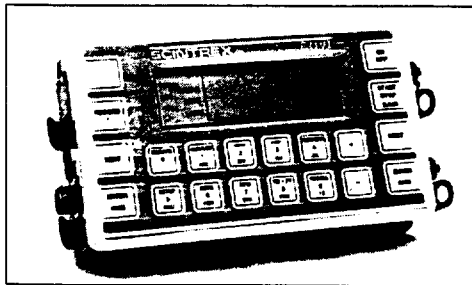


ENVI-MAG Proton Magnetometer in operation

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

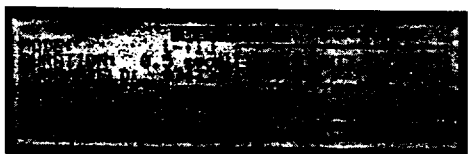
"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



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 (½m) 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 alphanumeric

### 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

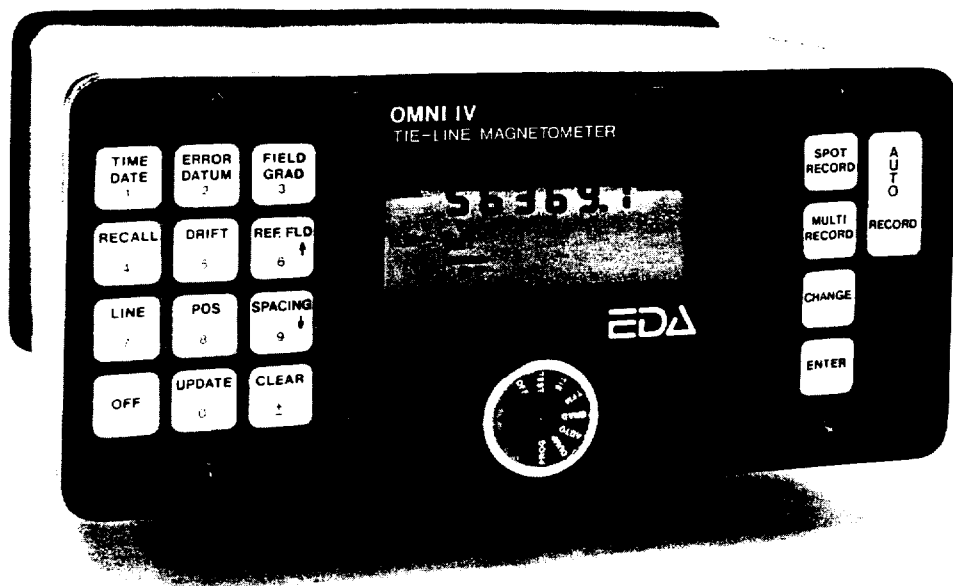
### Head Office

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

# OMNI IV "Tie-Line" Magnetometer



- 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

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	$\pm 15\%$ relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	$\pm 0.02$ gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	$\pm 1$ gamma at 50,000 gammas at 23°C $\pm 2$ gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from $-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ . The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	$-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ ; 0–100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5 m separation - standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0 m separation - optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

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

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

Printed in Canada



*APPENDIX 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.**

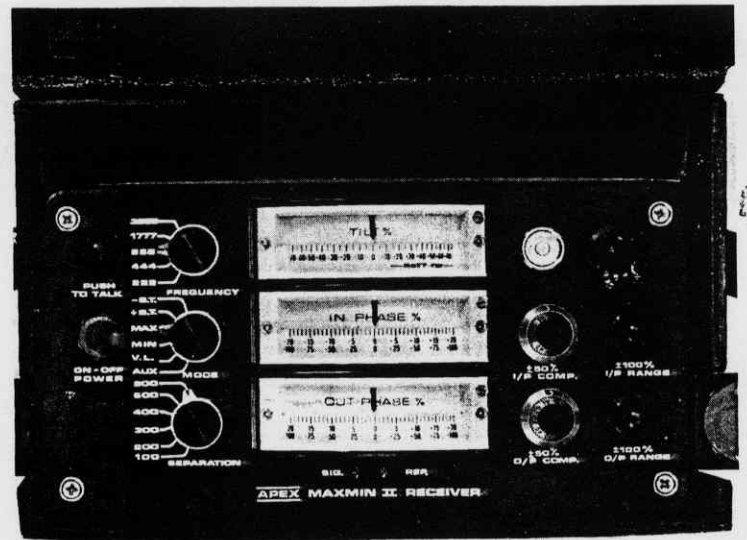
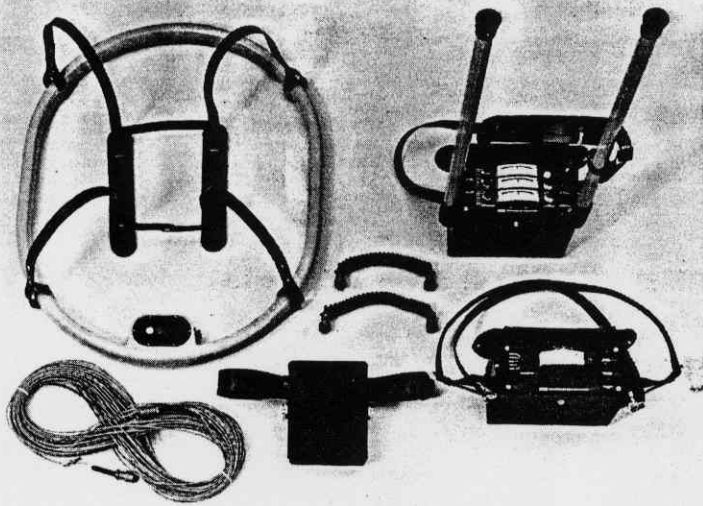
**Coil separations: 25, 50, 100, 150, 200 and 250 m  
(with cable) or 100, 200, 300, 400, 600 and 800 ft.**

**Reliable data from depths of up to 180m (600 ft).**

**Built-in voice communication circuitry with cable.**

**Tilt meters to control coil orientation.**





## PARAMETRICS

**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 refer. 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 & 250m (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 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.  
 - Tilt angle and null in 90mm edgewise meters in V.L. mode.

**Scale Ranges:** In-Phase:  $\pm 20\%$ ,  $\pm 100\%$  by push-button switch.  
 Quadrature:  $\pm 20\%$ ,  $\pm 100\%$  by push-button switch.  
 Tilt:  $\pm 75\%$  slope.  
 Null (V.L.): Sensitivity adjustable by separation switch.

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

**Repeatability:**  $\pm 0.25\%$  to  $\pm 1\%$  normally, depending on conditions, frequencies and coil separation used.

**Transmitter Output:** - 222Hz : 220 Atm<sup>2</sup>  
 - 444Hz : 200 Atm<sup>2</sup>  
 - 888Hz : 120 Atm<sup>2</sup>  
 - 1777Hz : 60 Atm<sup>2</sup>  
 - 3555Hz : 30 Atm<sup>2</sup>

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

**Transmitter Batteries:** 12V 6Ah Gel-type rechargeable battery. (Charger supplied).

**Reference Cable:** Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please 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:**  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ ).

**Receiver Weight:** 6kg (13 lbs.)

**Transmitter Weight:** 13kg (29 lbs.)

**Shipping Weight:** Typically 60kg (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



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 claims 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	P 1190045	1	2,821	400		2,421
2	P 1213580	1	2,821	400		2,421
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
<b>Column Totals</b>						

I, Peter J. Varnos, 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 in Writing: [Signature] Date: 17 Oct 97

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.

For Office Use Only

Received **RECEIVED**  
OCT 20 1997  
PORCUPINE MINING DIVISION

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 8(1) of the Assessment Work Regulation 8/96. 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 8B5.

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
Pit excavating	8.85 km	\$ 280	2,478.00
Magnetics	8.85 km	125	1,106.25
Maps			200
GST			264.40
HLEM Survey <sup>Mapt</sup> Report	3.2 km	498.05	1,593.76
Associated Costs (e.g. supplies, mobilization and demobilization).			
			2,179.99
Transportation Costs			
Food and Lodging Costs			
<b>Total Value of Assessment Work</b>			<b>5,649.91</b>

**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, Peter Vavros P. Eng.  
(please print full name)

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  
(recorded holder, agent, or state company position with signing authority)

RECEIVED  
OCT 21 1997  
MINING ASSESSMENT OFFICE

RECEIVED  
OCT 20 1997  
PORCUPINE MINING DIVISION

Signature: Peter Vavros Date: 20 Oct 97

January 12, 1998

JEAN-CLAUDE BONHOMME  
95 WELLINGTON ST. W  
SUITE 1800  
TORONTO, ONTARIO  
M5J-2N7

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

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

Dear Sir or Madam:

**Submission Number: 2.17909**

**Status**

**Subject: Transaction Number(s):** W9760.00463 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.

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 Bruce Gates by e-mail at [gatesb2@epo.gov.on.ca](mailto:gatesb2@epo.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



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

# Work Report Assessment Results

**Submission Number:** 2.17909

**Date Correspondence Sent:** January 12, 1998

**Assessor:** Bruce Gates

**General Comment:**

On future submissions please insure that the posted readings for the MAG survey are legible. If the contours obliterate the raw data a seperate map should be provided for the contours.

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00463	1190045	CARSCALLEN	Deemed Approval	January 12, 1998

**Section:**

14 Geophysical MAG  
14 Geophysical EM

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

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

Peter J. Vamos  
WATERDOWN, ON

Assessment Files Library  
Sudbury, ON

JEAN-CLAUDE BONHOMME  
TORONTO, ONTARIO



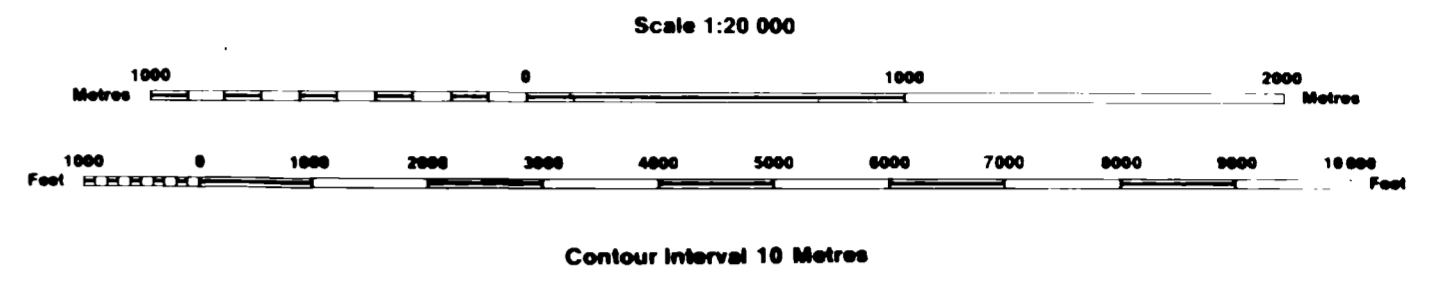


INDEX TO LAND DISPOSITION

PLAN G-3040 TOWNSHIP

CARSCALLEN

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



AREAS WITHDRAWN FROM DISPOSITION

- MRO - Mining Rights Only SRO - Surface Rights Only M+S - Mining and Surface Rights

AGGREGATE PERMIT - NOTICE RECEIVED JUNE 16, 1993

SYMBOLS

Table of symbols for Boundary, Township, Meridian, Baseline, Road allowance, Lot/Concession, Parcel, Right-of-way, Reservation, Cliff, Pit, Pile, Contour, Pipeline, Railway, Road, Shoreline, Transmission line, Wooded area.

DATE OF ISSUE

JAN 13 1998

PROVINCIAL RECORDS OFFICE - SUDBURY

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

APPLICATION PENDING UNDER THE "PUBLIC LANDS ACT" SNOWMOBILE TRAILS NOT RECEIVED 92-DEC-21.

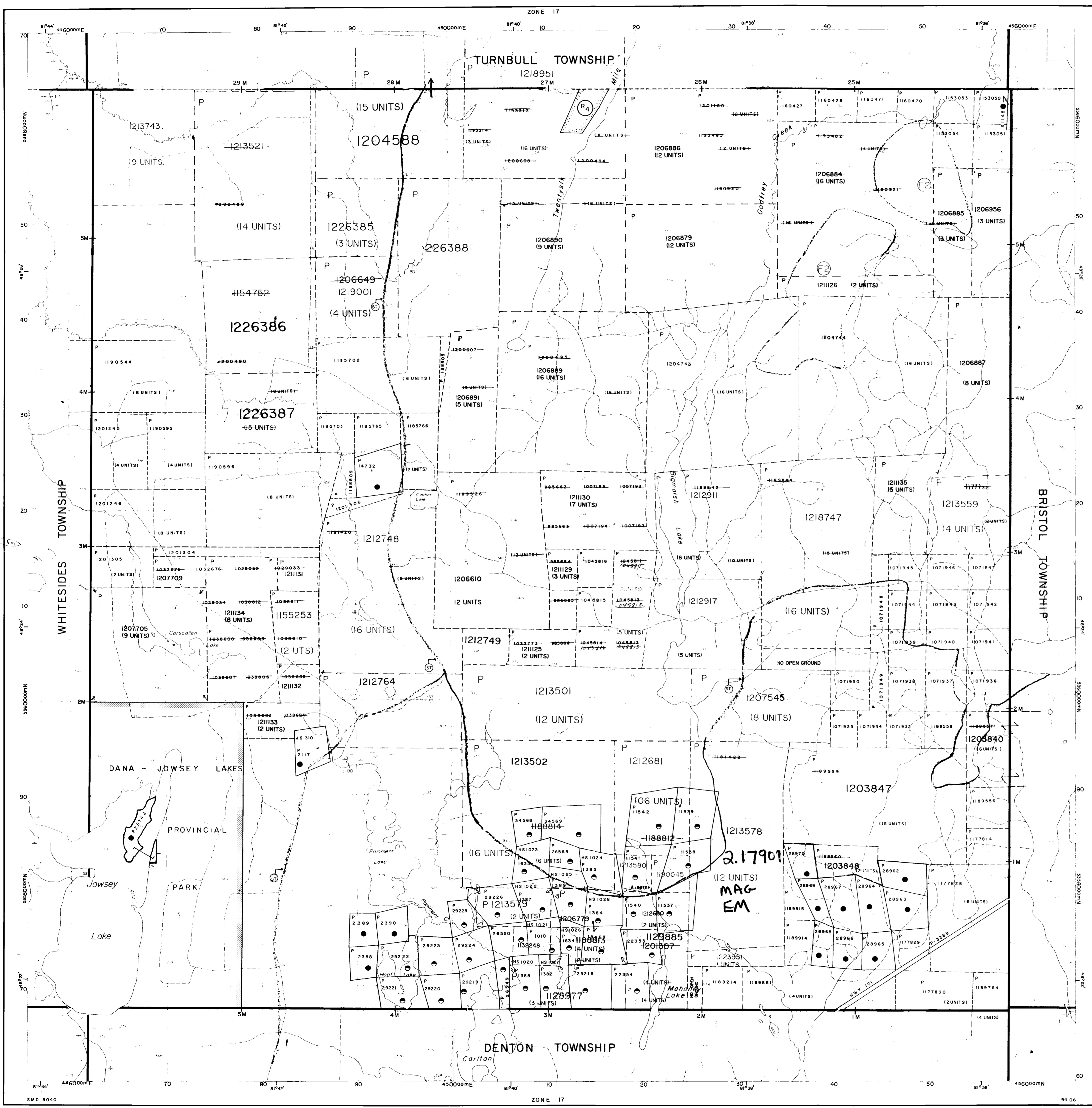
THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995-96. FURTHER INFORMATION AVAILABLE ON FILE.

DISPOSITION OF CROWN LANDS

Table of crown land dispositions: 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, Cancelled, Reservation, Sand & Gravel.

ACTIVATED AUG. 17/94, B1: D.C.

CHECKED BY:

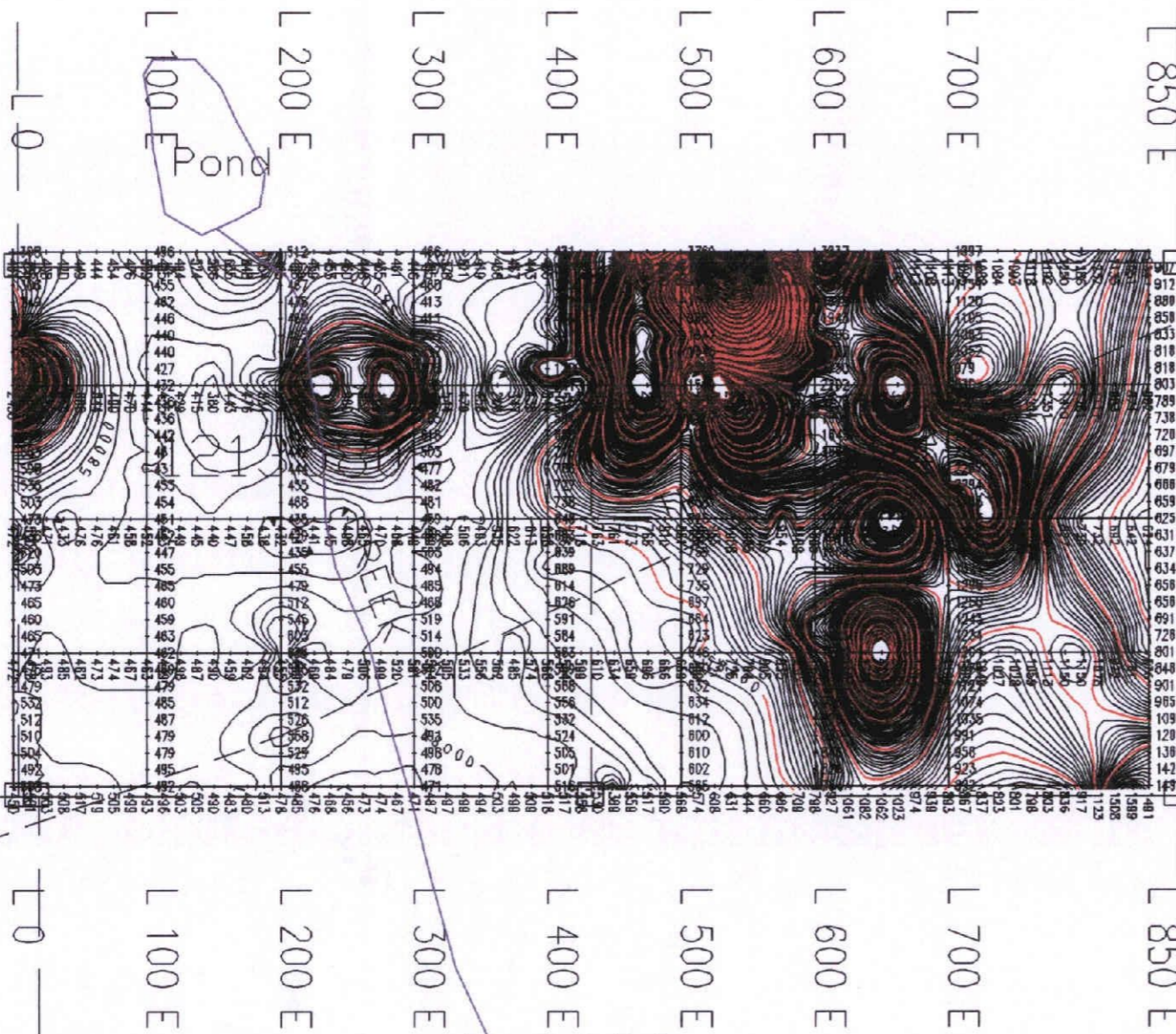


1213502  
16 Units

1212681  
6 Units

1213509

L 0  
L 100 S  
L 200 S  
L 300 S  
L 400 S



L 0  
L 100 S  
L 200 S  
L 300 S  
L 400 S

1213578  
12 Units



42A05NE0164 2.17909 CARSCALLEN

210



SCALE (m)

1212680  
2 Units  
CREEK

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,.....  
 Reference Field: 58,000 gammas  
 Datum Subtracted: 57,500 gammas



EXSICS EXPLORATION LTD.

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

CLIENT: PROSPECTORS ALLIANCE INC.

PROPERTY: KERR ISLAND PROPERTY

TITLE: CARSCALLEN TWP

MAGNETOMETER SURVEY

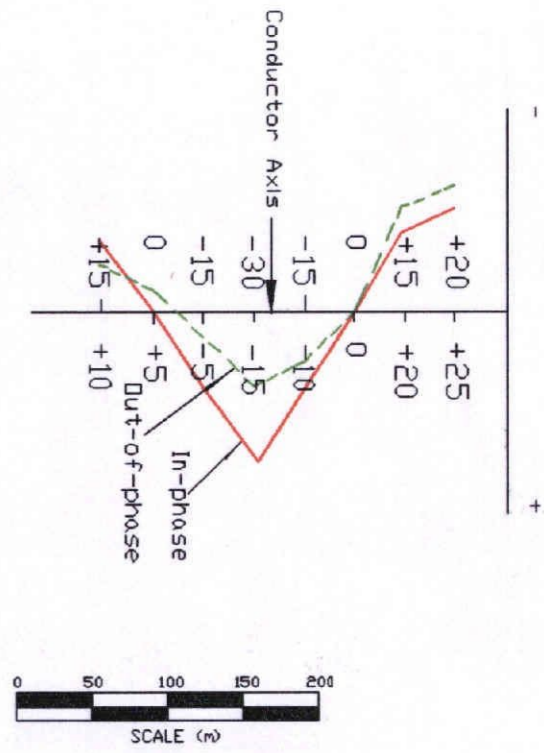
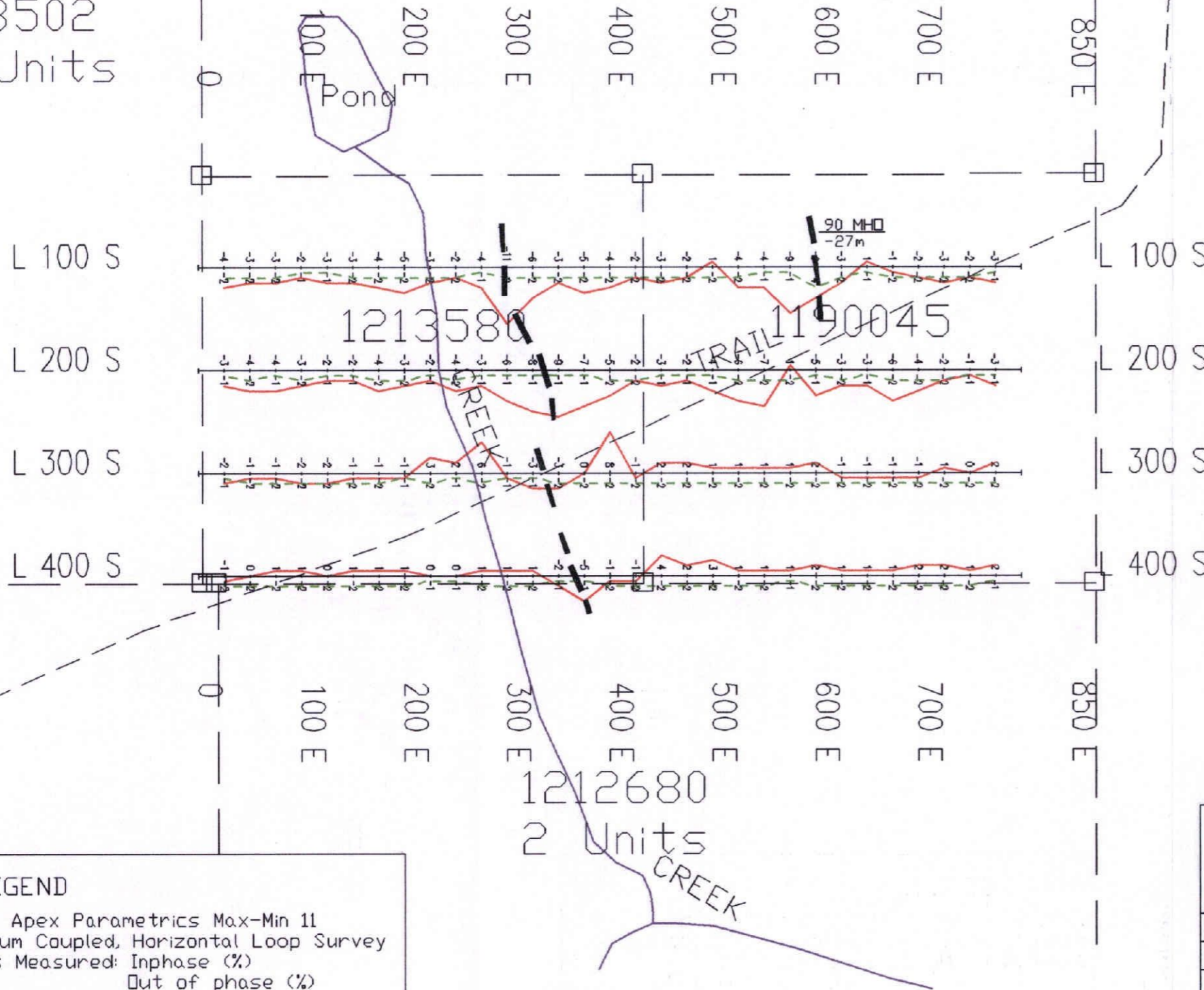
Date: Sept. 1997	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-271

1212681  
6 Units


1213502  
16 Units

2.17909

1213578  
12 Units



**LEGEND**  
 Instrument: Apex Parametrics Max-Min 11  
 Mode: Maximum Coupled, Horizontal Loop Survey  
 Parameters Measured: Inphase (%)  
 Out of phase (%)  
 Frequency: 444 Hz  
 Coil Separation: 50m  
 Operator: W. Pearson  
 Profile Scale: 1cm=+/-10%

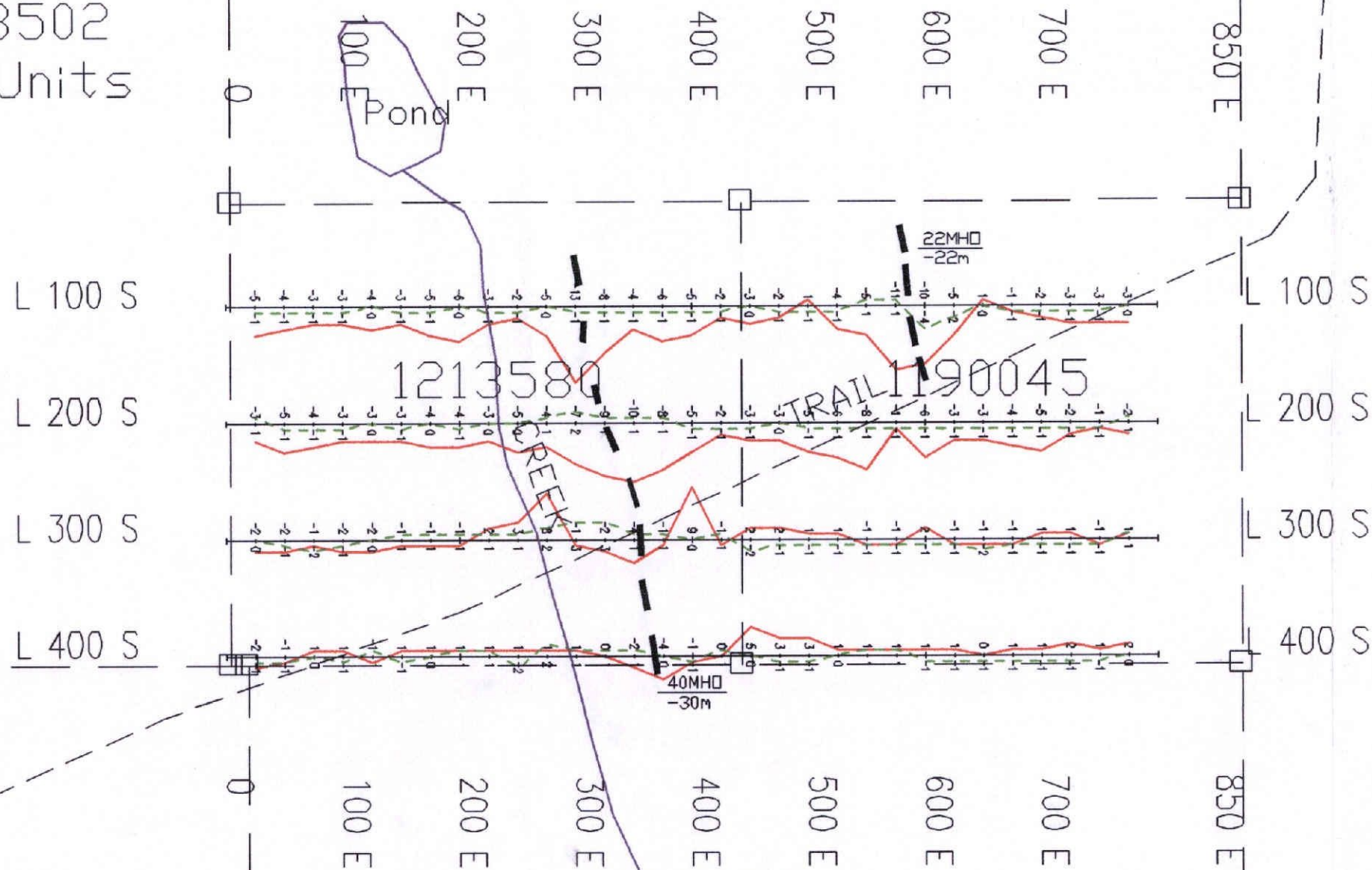
 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
<b>CLIENT: PROSPECTORS ALLIANCE INC.</b>		
<b>PROPERTY: KERR ISLAND PROPERTY</b>		
<b>TITLE: CARSCALLEN TWP</b>		
<b>MAX MIN II 444 Hz</b>		
Date: Oct. 1997	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-271

2.17909

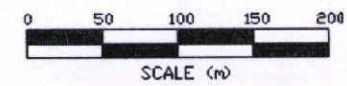
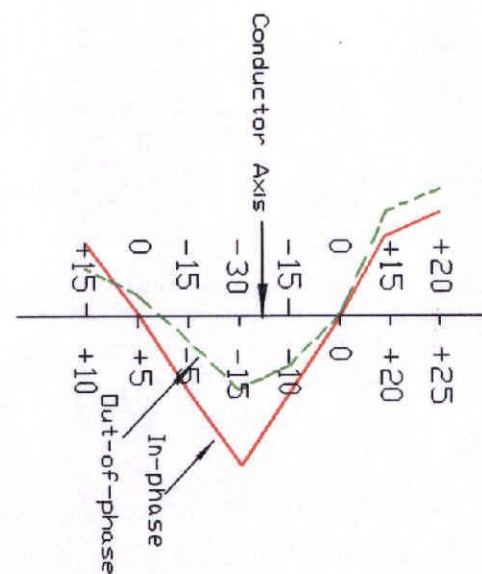
1213502  
16 Units

1212681  
6 Units

1213578  
12 Units




230



**LEGEND**  
 Instrument: Apex Parametrics Max-Min II  
 Mode: Maximum Coupled, Horizontal Loop Survey  
 Parameters Measured: Inphase (%)  
 Out of phase (%)  
 Frequency: 1777 Hz  
 Coil Separation: 50m  
 Operator: W. Pearson  
 Profile Scale: 1cm=+/-10%

1212680  
2 Units  
CREEK

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: PROSPECTORS ALLIANCE INC.		
PROPERTY: KERR ISLAND PROPERTY		
TITLE: CARSCALLEN TWP		
MAX MIN II 1777 Hz		
Date: Oct. 1997	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-271

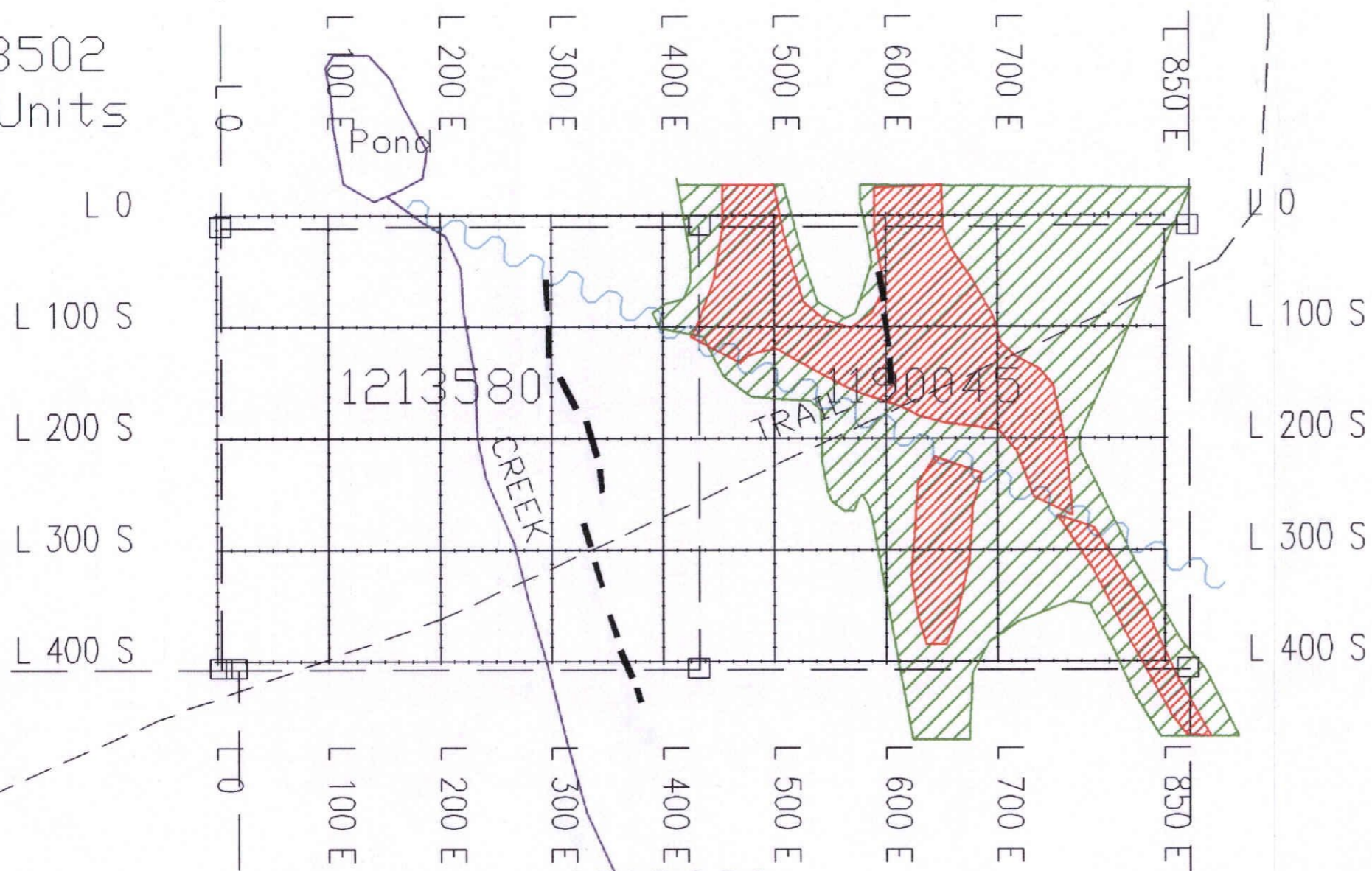
2.17909



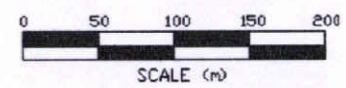
1213502  
16 Units

1212681  
6 Units

1213578  
12 Units



240



LEGEND

ELEVATED MAG

MAG HIGH

FAULT

MAX-MIN CONDUCTOR

1212680  
2 Units  
CREEK



**EXSICS EXPLORATION LTD.**

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

CLIENT: PROSPECTORS ALLIANCE INC.

PROPERTY: KERR ISLAND PROPERTY

TITLE: CARSCALLEN TWP

**GEOPHYSICAL COMPILATION**

Date: Sept. 1997	Scale: 1:5000	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-271