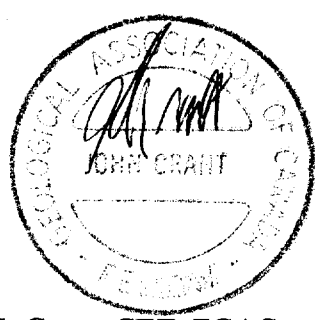
GEOPHYSICAL REPORT
FOR
EXPLORER'S ALLIANCE INC.
ON THE
MANNING LAKE PROPERTY
AITKEN, OKE AND WILHELMINA TOWNSHIPS
PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO



Prepared by: J. C. Grant, CET, FGAC
March, 2001

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INTRODUCTION:

The services of Exsics Exploration Limited were retained by Mr. L. Bonhomme to continue the ground geophysical program that had commenced during the month of December, 2000. The initial ground program was completed over a portion of their claim holdings in the Porcupine Mining Division. The block of claims that were to be covered by this program are situated approximately 65 kilometers northwest of the City of Timmins and cover portions of Aitken, OKE and Wilhelmina Townships. Figures 1 and 2.

The purpose of this ongoing ground program was to better define the initial conductors that had been noted by the December and January programs. A larger coil separation was used in this follow up program due to the suspected depth of the overburden and the results of the initial program. The overall objective of the ground program was to locate and outline a series of airborne targets that strike in an east-southeast direction from the south shore of Manning lake and extend approximately 2 kilometers into Wilhelmina Township. The airborne targets appear to represent a significant conductive horizon that lies within an intermediate to mafic volcanic unit that in turn has been cross cut by at least three to four north-northwest striking faults.

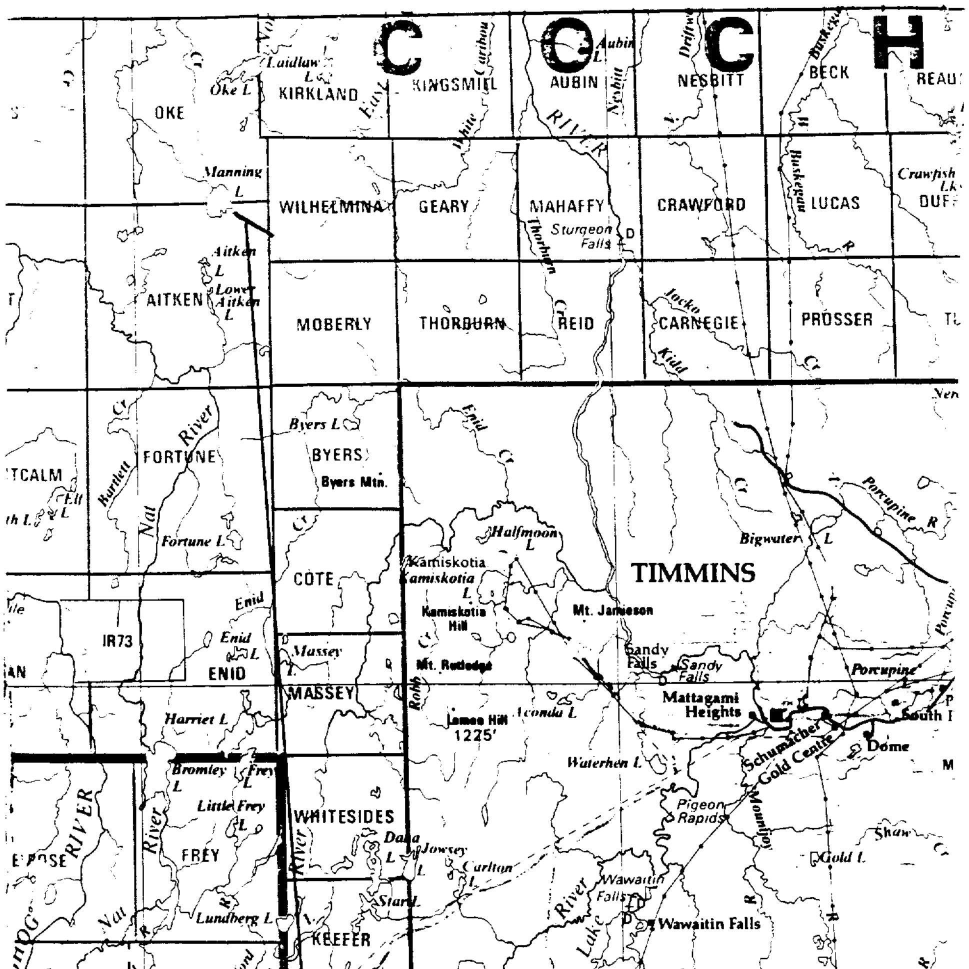
This third follow up ground program commenced on the 1st of March with additional coverage of the cut grid, commencing on line 400ME and reading the grid to and including 1400ME . The line cutting has now been completed across the entire conductive horizon and amounts to approximately 40 kilometers, including the access trail into the grid.. This report is continuation of the January report that was previously submitted for assessment purposes.. The entire report will follow upon the completion of the ground program.

PROPERTY LOCATION AND ACCESS:

Generally, the Manning lake Property is located approximately 65 kilometers northwest of the City of Timmins. The property consists of 11 claim blocks, some 114 units comprising approximately 1824 hecters, 8 of which are situated in Aitken Township and 3 of which are situated in Wilhelmina Township. Figure 3.

More specifically, the claims are situated in the northeast section of Aitken and the central southwest section of Wilhelmina Townships. Manning Lake covers a portion of the northwest section of the claim block.

Access to the claim block is somewhat involved. During the summer months the best access would be by fixed wing to the southeast shore of Manning Lake and the west end of the established base line.



EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151, 267-2424

CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

TITLE: AIKEN,OKE,WILHEMINA TWPS.

LOCATION MAP

Fig. 2

Date: NOV.,2000	Scale: 1" =125miles	NTS:
Drawn: P.Gauthier	Interp: J.C.Grant	Job No.: E-397

During the course of the ground program the access was difficult due to the time of the year. The lake had just frozen over and was not yet suitable for fixed wing or helicopter landings. At the commencement of the cutting program there was not yet sufficient snow fall to allow for good ground access by snow machine. Recent logging operations in the general vicinity resulted in a drive able access road that commenced form the Abitibi Logging road and traveled westward for approximately 12 kilometers to Wilhelmina Creek. An old grown over trail was then used from this point to access the south section of the claim block. This trail had to be cut out and flattened to allow for skidoo access to the grid area. Several spots along the constructed trail had to be filled in with timber to make it passable for the skidoos. A camp was then located at the north end of this trail and was used by the line cutting crews to cut the grid. Shortly after this camp was constructed, enough snow had accumulated to allow for snow machine access to the area. However, traveling time is long and quite tedious. During the time before this third program commenced, an additional 60 centimeters of snow had fallen and the access trails had to be redone to allow for skidoo access to the grid.

The grid area itself is relatively open in the central section of the grid and generally covered by stunted black spruce and swamp. The base line was to be cut wide enough to allow for skidoo access from one side of the grid to the opposite. Traveling time from Timmins to the grid is about two and one half hours.

MANNING LAKE CLAIM GROUP:

The claim blocks that form the Manning Lake property are listed below.

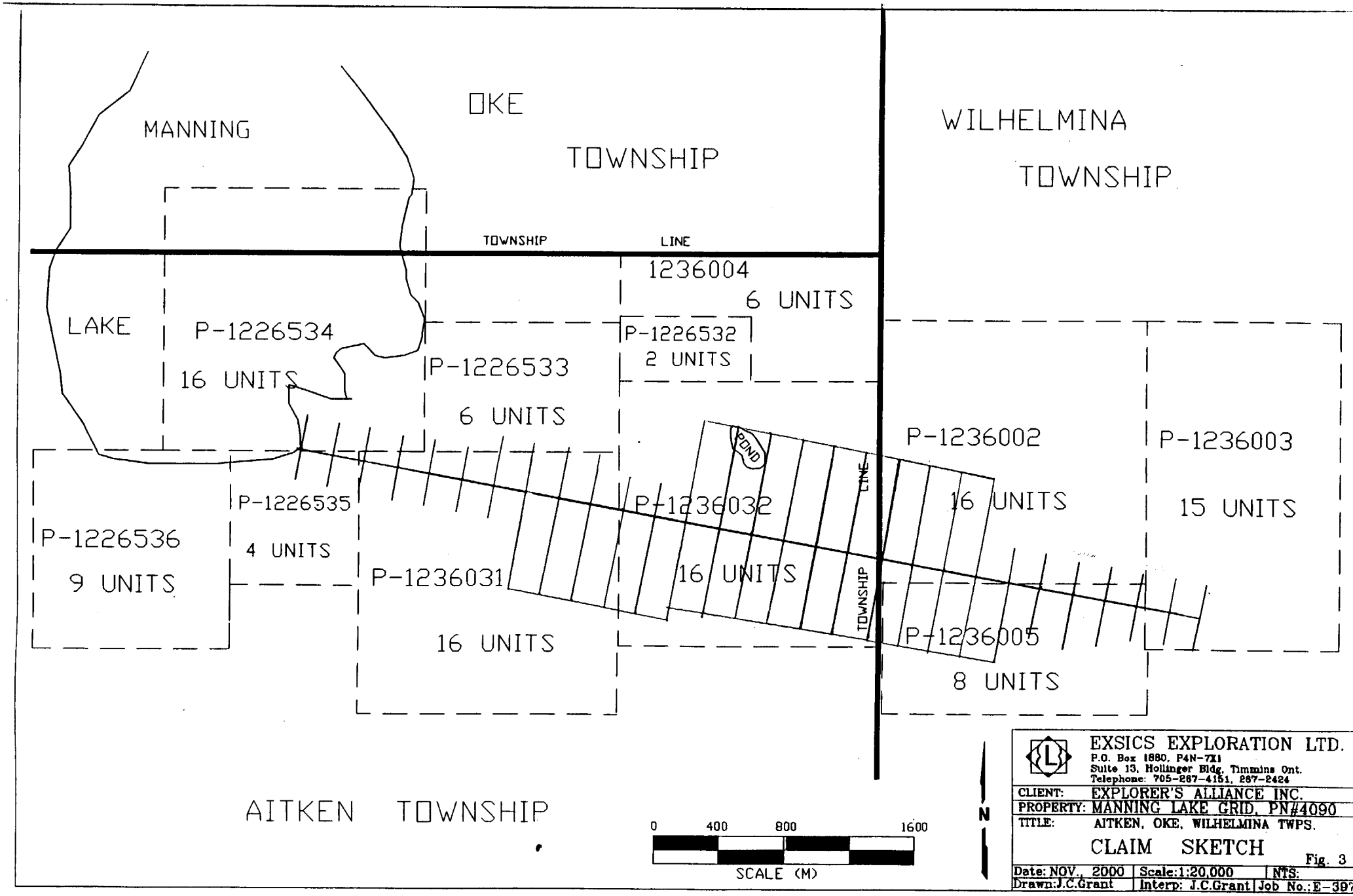
Aitken Township Block:

P-1226532..... 2 units
P-1226533..... 6 units
P-1226534.....16 units, The north 4 of this unit are in OKE Township.
P-1226535..... 4 units
P-1226536..... 9 units
P-1236031.....16 units
P-1236032.....16 units
P-1236004..... 6 units

Wilhelmina Township Block:

P-1236002.....16 units
P-1236003.....15 units
P-1236005..... 8 units

Refer to Figure 3, copied from MNDM Plan Maps of Aitken, OKE and Wilhelmina Townships for the location of the claim blocks with respect to each other.



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Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151, 267-2424

CLIENT:	EXPLORER'S ALLIANCE INC.
PROPERTY:	MANNING LAKE GRID, PN#4090
TITLE:	AITKEN, OKE, WILHELMINA TWPS.

CLAIM SKETCH

Fig. 3

Date: NOV., 2000	Scale:1:20,000	NTS:
Drawn:J.C.Grant	Interp: J.C.Grant	Job No.: E-397

PERSONNEL:

The field crew directly responsible for the collection of all of the raw field data, for this phase of the program, were as follows.

John C. Grant.....Timmins, Ontario
Aurel Chaumont.....Timmins, Ontario
Dan Collins.....Timmins, Ontario
Erik Jaakkola.....Timmins, Ontario
Jeff Midelton.....Timmins, Ontario

Yvon Collin was responsible for opening the skidoo access trails and for staying ahead of the survey crew by breaking trails directly to the stating point of this phase of the program.

The entire program was completed under the direct supervision of J. C. Grant and all of the plotting and compilation was completed in house.

GROUND PROGRAM:

The ground program was completed in two phases. The first phase was to establish a cut metric grid across the grid. This grid was to be used to control the second phase of the program, the geophysical surveys.

A base line,(0+00), and three tie lines, (6+00MS), (5+00MS) and (6+00MN) were established across the grid at an azimuth of 100 degrees. Cross lines were then turned off of these tie lines and base line at 200 meter intervals where applicable, from 36+00MW to and including 18+00ME and picketed with 25 meter stations. In all approximately 40 kilometers of grid lines were to be cut and surveyed across the claim block.

GEOPHYSICAL PROGRAM:

The geophysical portion of the program was to consist of a detailed total field magnetic survey which was to be completed along with a moving coil, Crone Pulse Electromagnetic, (PEM), survey. Refer to Appendix A for the specifications of this system. This is basically a horizontal loop survey but allows for a deeper penetration through multiple frequencies. The survey is quite slow and requires a four man crew to operate the system. The PEM survey is ongoing at the time of this report as is the magnetic survey. This report does contain the magnetic results from line 600ME to and including 3600MW. The Scintrex Envi Mag system was used for the field unit as well as the base station unit and specifications for the unit is described under Appendix B.

The following survey parameters were kept constant throughout the survey period.

Line spacing.....200 meters
Station spacing..... 25 meters
Reading intervals..... 50 meter recon, 25 meter detail
Coil separation..... 150 meters
Primary Pulse.....480
Synchronisation..... Radio link
Theoretical search depth..... 75 -120 meters
Parameters measured..... 8 frequency samples of the secondary field.

The collected data from the PEM survey was then plotted directly onto individual line sections with all eight samples being stacked and profiled at 1cm= +/_ 20,10 and 5% as the samples progressed from sample 1 to sample 8. Copies of the completed lines are included in the back pocket of this report. Each of the sections are plotted at a scale of 1:5000.

The following parameters were kept constant for the magnetic survey.

Line spacing.....200 meters
Station spacing.....25 meters
Reading intervals.....12.5 meters
Diurnal monitor.....Base station recorder
Record interval.....30 seconds
Reference field.....58,500 gammas
Datum subtracted.....57,000 gammas

The collected magnetic data was then corrected, leveled and plotted directly onto a base map at a scale of 1:5000 and then contoured at 100 gammas where ever possible. A copy of this contoured base map is included in the back pocket of this report.

SURVEY RESULTS:

The lines that were completed at the time of this report were lines 400ME to and including 1400ME and they were read from their north to south boundary. In all, a total of 8.0 kilometers of lines have been read with the survey still in progress. A total of 40 kilometers will be surveyed over the entire property once the program is completed. A total of 33 kilometers of magnetics have also been completed to date.

This additional coverage of the grid in an eastward direction was successful in outlining the same two conductive zones that had been noted by the second phase of PEM coverage. Unfortunately, the zones appear to be striking off of the grid to the south east as the grid progresses eastward.. Lines 400ME and 600ME did locate the two zones and they appear to be of the same strength and depth as the western features.

The eastern extensions of the PEM conductors do follow the southern flank of the same magnetic feature as was host to the western section of the conductive horizon. There does appear to be a third parallel zone striking across lines 200ME to and including 1000ME at approximately 100 to 75 MS of the base line. The main conductor is striking off of the grid to the southeast. Zone A which is still quite evident on lines 400ME and 600ME is at a depth of 120 meters and has a conductivity of 15 mhos. Zone B is also evident on the same two lines and it has a depth range of 105 to 90 meters and a conductivity range of 6.5 to 7 mhos.

CONCLUSIONS AND RECOMMENDATIONS:

This phase of the PEM survey is working quite well especially with the increase coil separation. The zones all appear to represent legitimate bedrock conductors all of which are situated under a highly conductive overburden layering. The zones outlined to date especially zones A and B and now Zone C, suggest that the target horizon is a contact style sulphide unit of unknown composition. The magnetic suggest that the zones do not relate to a graphite horizon but to a composition of sulphides. The PEM survey is ongoing at the time of this report with further coverage to the east and west of the zones thus far outlined.

Respectfully submitted

J.C.Grant, CET, FGAC
March, 2001

CERTIFICATION

I, John Charles Grant, of 108 Kay Crescent, in the City of Timmins, Province of Ontario, hereby certify that:

1). I am a graduate of Cambrian College of Applied Arts and Technology, 1975, Sudbury Ontario Campus, with an Honors Diploma in Geological and Geophysical Technology.

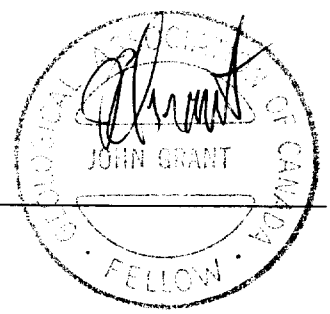
2). I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years), and currently as Exploration Manager and Geophysicist for Exsics Exploration Limited, since 1980.

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

4). I am a Fellow of the Geological Association of Canada, (FGAC), since 1986.

5). I have been actively engaged in my profession since the 15th of May of 1975, in all aspects of ground exploration programs, including the planning and execution of field programs, project supervision, data compilation, interpretations and reports.

6). I have no specific or special interest in the herein described property. I have been retained by the property holders and or their Agent as a Geophysical Consultant and Contract Manager.



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

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.

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

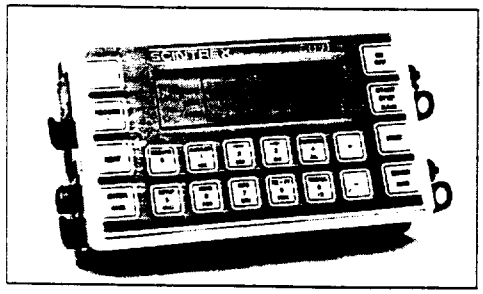
An optional upgrade kit is available to configure ENVI-MAG as a gradiometer to make true, simultaneous gradiometer measurements. Gradiometry is useful for geotechnical and archaeological surveys where small near surface magnetic targets are the object of the survey.

Selectable Sampling Rates

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

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

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:

a) read the ENVI-MAG data and reformat it into a standard compatible with the ENVIMAP software
b) grid the data into a standard grid format
c) 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
d) contour the gridded data
e) 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
f) 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

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 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

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)

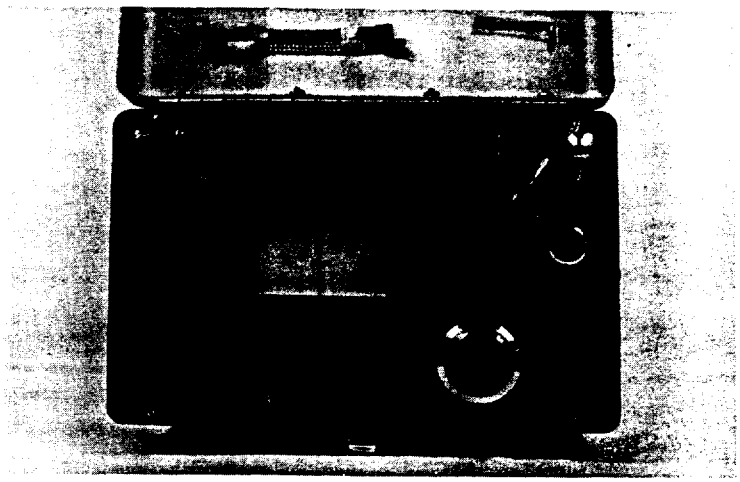
SCINTREX

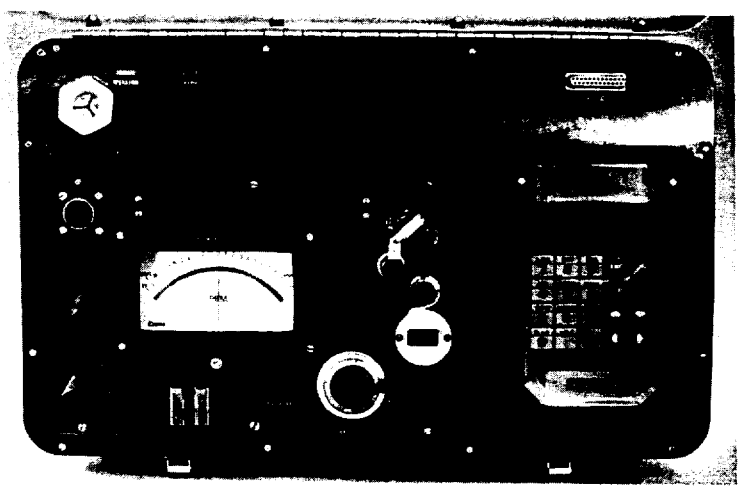
Head Office
222 Snidercroft Road
Concord, Ontario, Canada L4K 1B5
Telephone: (905) 669-2280
Fax: (905) 669-6403 or 669-5132
Telex: 06-964570

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

APPENDIX B

CRONE GEOPHYSICS LIMITED
PEM RECEIVER





Proven Reliability & Flexibility

- In use since 1973.
- Compatible with surface and borehole systems.
- Can be used in a fixed or moving source operating mode.
- Discriminates targets in areas of surficial conductivity.
- Operates under adverse environmental conditions (desert, arctic, jungle).

Optional Datalogger Receiver

- A/D convertor for digital storage
- Memory capacity for 140 stations DEEPEM or 280 readings Borehole
- LCD good to −50°C
- Filtered readings in areas of spheric and powerline noise

- Instrument Sales, Rental and Repair Services
- Contract Survey Services
- Consulting Services
- Computer Plotting and Processing Services

HEAD OFFICE: 3607 Wolfedale Rd.
MISSISSAUGA. Ontario
CANADA L5C 1V8
PHONE: (416) 270-0096
TELEX: 06-961260

SPECIFICATIONS*

1. STANDARD RECEIVER

BATTERY SUPPLY:
±12 VDC, two internal, rechargeable, 12V gel type batteries

MEASURED QUANTITIES:
Primary shut-off voltage pulse (PP). Time derivative of the transient magnetic field by integrative sampling over eight, contiguous time gates (microseconds).

CH. NO.	WINDOW	WIDTH	MID PT.	REL. GAIN	WINDOW	WIDTH	MID PT.
PP	-100 to 0	100	-50	1.00	-200 to 0	200	-100
1	100 to 200	100	150	1.00	200 to 400	200	300
2	200 to 400	200	300	1.39	400 to 800	400	600
3	400 to 700	300	550	1.93	800 to 1400	600	1100
4	700 to 1100	400	900	2.68	1400 to 2200	800	1800
5	1100 to 1800	700	1450	3.73	2200 to 3600	1400	2900
6	1800 to 3000	1200	2400	5.18	3600 to 6000	2400	4800
7	3000 to 5000	2000	4000	7.20	6000 to 10K	4000	8000
8	5000 to 7800	2800	6400	10.00	10K to 15.6K	5600	12.8K
	10.8ms. Time Base				21.6ms. Time Base		

READOUT:
Readings are output on an analog meter (6V FSD), over three sensitivity ranges (X1, X10, X100). Data retrieval made by channel select switch.

TIMING:
A telemetry link ("sync.") is maintained by radio signal, or a back-up cable, between the transmitter and the receiver, and is meter monitored.

SENSITIVITY:
Adjustable through a ten turn, calibrated gain pot.

SAMPLING MODES:
"S & H" (Sample & Hold)
The receiver averages 512 (10.8 ms), or 256 (21.6ms), readings for all channels, and stores the results for display.
"CONT" (Continuous)
A running average for all channels is stored, enabling the operator to reject thunderstorm spikes and power line noise by visual inspection.

OPERATING TEMPERATURE RANGE:
-40°C - 50°C (-40°F - 122°F)

DIMENSIONS: 28cm x 18cm x 27cm (11" x 7" x 10½")

SHIPPING DIMENSIONS: 37cm x 27cm x 35cm (14½" x 10½" x 14")

WEIGHT: 7kg (16lb)

SHIPPING WEIGHT: 14.5kg (32lb)

2. OPTIONAL DATALOGGER RECEIVER

- Uses above receiver in conjunction with Omnidata Polycorder.®
- Data is A/D converted and stored in 32k memory.
- RS-232C serial interface allows for connection to modem.
- Continual monitoring of readings through LCD.
- Spheric and powerline rejection through software filter.
- Operating temp range from -40°C - 50°C (-40°F - 122°F)

WEIGHT: 14.5kg (32lb)

SHIPPING WEIGHT: 21.8kg (48lb)

DIMENSIONS: 22cm x 28cm x 46cm (8¾" x 11" x 18")

SHIPPING DIMENSIONS: 35cm x 30cm x 53cm (14" x 11¾" x 21")

* Specifications subject to change without notice.

PULSE EM TRANSMITTER EQUIPMENT

- Flexible, multi-purpose transmitter and complete transmitting equipment for all types of surface and borehole time-domain EM surveys.

- 2000 Watt Transmitter can be powered 3 ways:
  - 24V rechargeable Battery Pack.
  - 24V Battery and 500W Motor Generator.
  - 24V-120V from 2000 W Motor Generator and Voltage Regulator.

- 24V input for Low-Power PEM surveys:

  18 Amps through 7-turn, 14m diameter Moving Coil (19,000 Am^2 dipole moment)
  - locates shallow (up to 150m deep) conductors even in conductive environments when used in profiling mode (Slingram method).
  - shallow resistivity soundings to 200m or more.

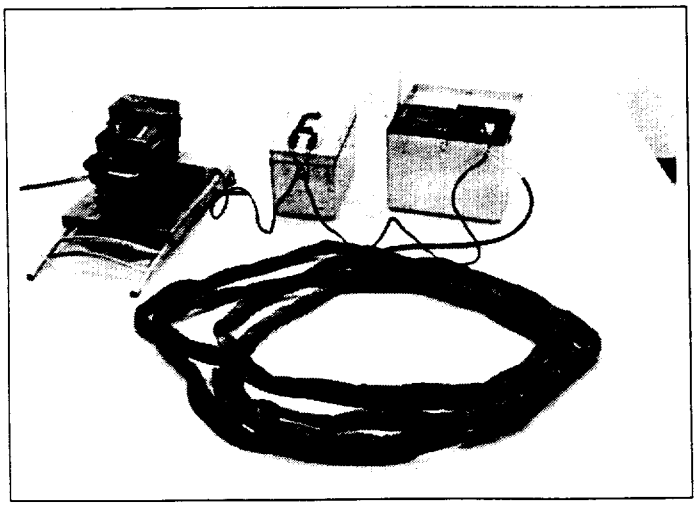
  18 Amps through 100m x 100m loop (180,000 Am^2 dipole moment)
  - Moving Loop or Moving In-Loop surveys for deeper conductor detection even in conductive environments.
  - Borehole logging to 300m or 300m long surface lines outside loop (small scale DEEPEM).
  - Resistivity sounding to hundreds of metres.

- 24V-120V input for High-Power PEM surveys:
  - Any loop size from 100m x 100m to 1 or 2 km square.
  - Can be used for all Surface and Borehole PEM surveys for deep conductor detection or deep resistivity sounding.

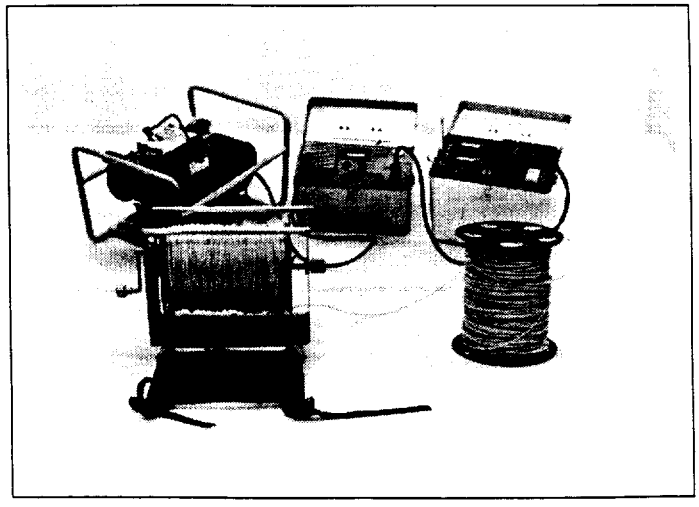
- 3 selectable current ramp times, 8 selectable time bases, and 3 synchronization methods.

- **Ramp times are fixed** to allow for proper data comparisons from loop to loop.

- Cleared for safe use in producing mines for underground borehole surveys.



Lower Power Gear
The 500W Motor Generator is required if the Transmitter is on for long periods. It is optional for the Moving Coil method.



2000 Watt Gear
Can power any size loop from 100m x 100m to 1 or 2 km square

SPECIFICATIONS - PULSE EM TRANSMITTER EQUIPMENT

2000 WATT PEM TRANSMITTER:

Controls bipolar, on-off waveform and linear current shut-off ramp time. Operating voltage: 24V to 120V.

Synchronization: Radio and cable synchronization are standard. Internal radio powers 1 metre long telescoping antenna (standard) or optional 1/4 Wave CB booster antenna on mast. In hilly terrain, use external (remote) radio and booster antenna on high point of grid, controlled by cable sync. Optional external crystal clock sync system.

On-Off times for 60 Hz powerline filtering: 8.33ms, 16.66ms, 33.33ms; for 50 Hz powerline filtering: 10.0ms, 20.0ms, 40ms; for analog PEM operation: 10.9ms, 21.8ms.

Linear controlled current shut-off ramp times of 0.5, 1.0 and 1.5ms. Ramp time is fixed and non-drifting with temperature and loop size to allow for accurate data comparison and interpretation.

Monitors for shut-off ramp operation, instrument temperature, Tx loop continuity, and overload output current.

Meters for loop current, input voltage, sync test.
Automatic shut-down for open Tx loop, high instrument temperature, and overload.

Net weight: 12.5 kg, shipping: 22 kg.

2000WATT MOTOR GENERATOR:

4 1/2 H.P. Wisconsin Robin, 4 cycle engine with belt drive to D.C. alternator; both mounted on frame; output: 120V, 20 Amps; external gas tank with hose and valve for full day of unattended operation; Net weight: 33 kg; shipping: 47 kg.

24V-120V VARIABLE VOLTAGE REGULATOR:

Controls and filters the alternator output; continuously variable between 24V and 120V D.C., 20 Amp maximum current; Net weight: 10kg, shipping: 20 kg.

WIRE, SPOOLS AND WINDERS:

Transmitter wire is usually No. 10 or 12 AWG insulated copper wire in 300m or 400m lengths, 1 length per spool; 2 spools in a shipping box; winder is mounted on a magnesium packframe.

MULTI-TURN MOVING COIL:

7 turn, 14 meter diameter Tx loop; plugs to break loop into 2 sections for easy station-to-station movement. Aluminum or copper wire and various coverings depending on area being used.

BATTERY POWER SUPPLY:

24V, 20 amp hour; rechargeable battery supply for use with PEM Transmitter as power source rather than motor-generator-regulator. In aluminum case, with clamp connectors. Net weight: 20.5 kg, shipping: 29 kg.

500 WATT, LOW-POWER MOTOR GENERATOR:

For continuous transmitter operation in Low-power PEM surveys. 3.5 H.P. Motor with belt drive to Alternator and Regulator; mounted on frame; output: 24V DC, 500W; connect to transmitter in parallel with 24V Battery Pack.

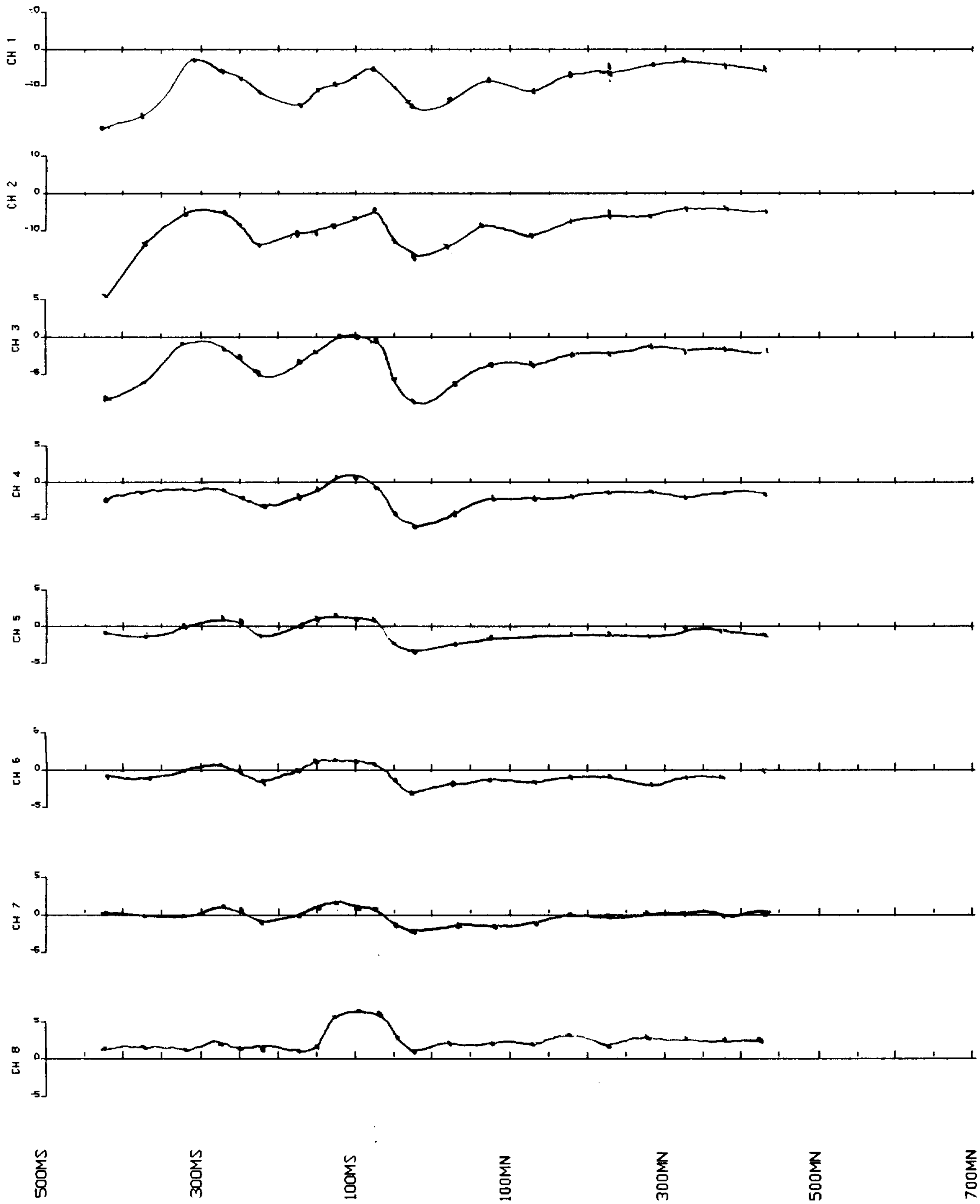
- Battery chargers supplied for all rechargeable battery units.
- All instruments and equipment operational from -40°C to +50°C.
- Plywood boxes for shipping and field transport with closed cell foam shock protection.

* Specifications subject to change without notice.

CRONE
Since 1962

CRONE GEOPHYSICS & EXPLORATION LTD.

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA L5C 1V8
TEL: (416) 270-0096 • FAX: (416) 270-3472 • TELEX: 06-961260



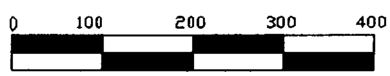
42A13SW2003 2.20958 WILHELMINA

020

2.20958

SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:



EXSICS EXPLORATION LTD

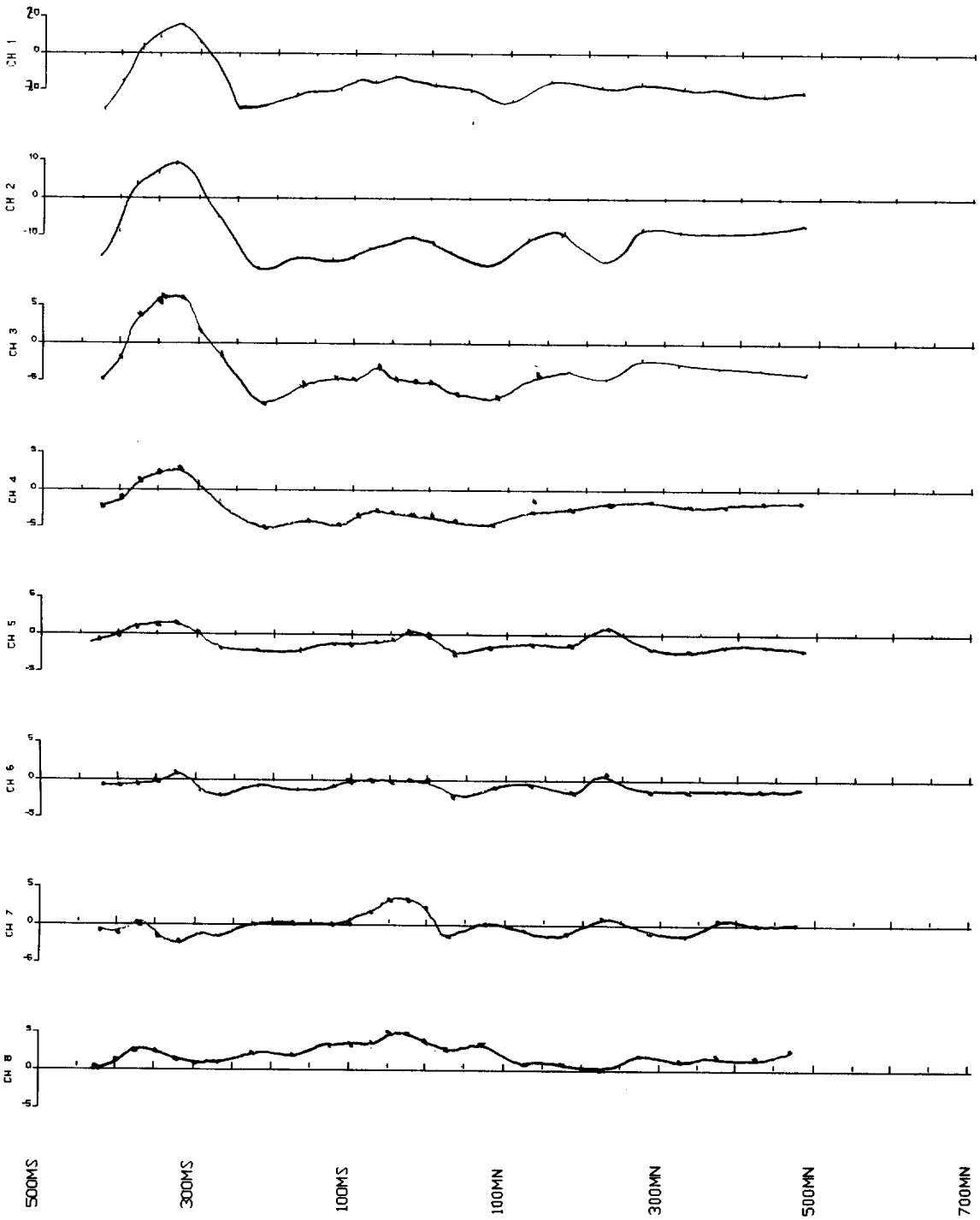
CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

LINE 400ME

TITLE: PEM MOVING COIL SURVEY

DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



N

SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:

0 100 200 300 400
SCALE (m)

EXSICS EXPLORATION LTD

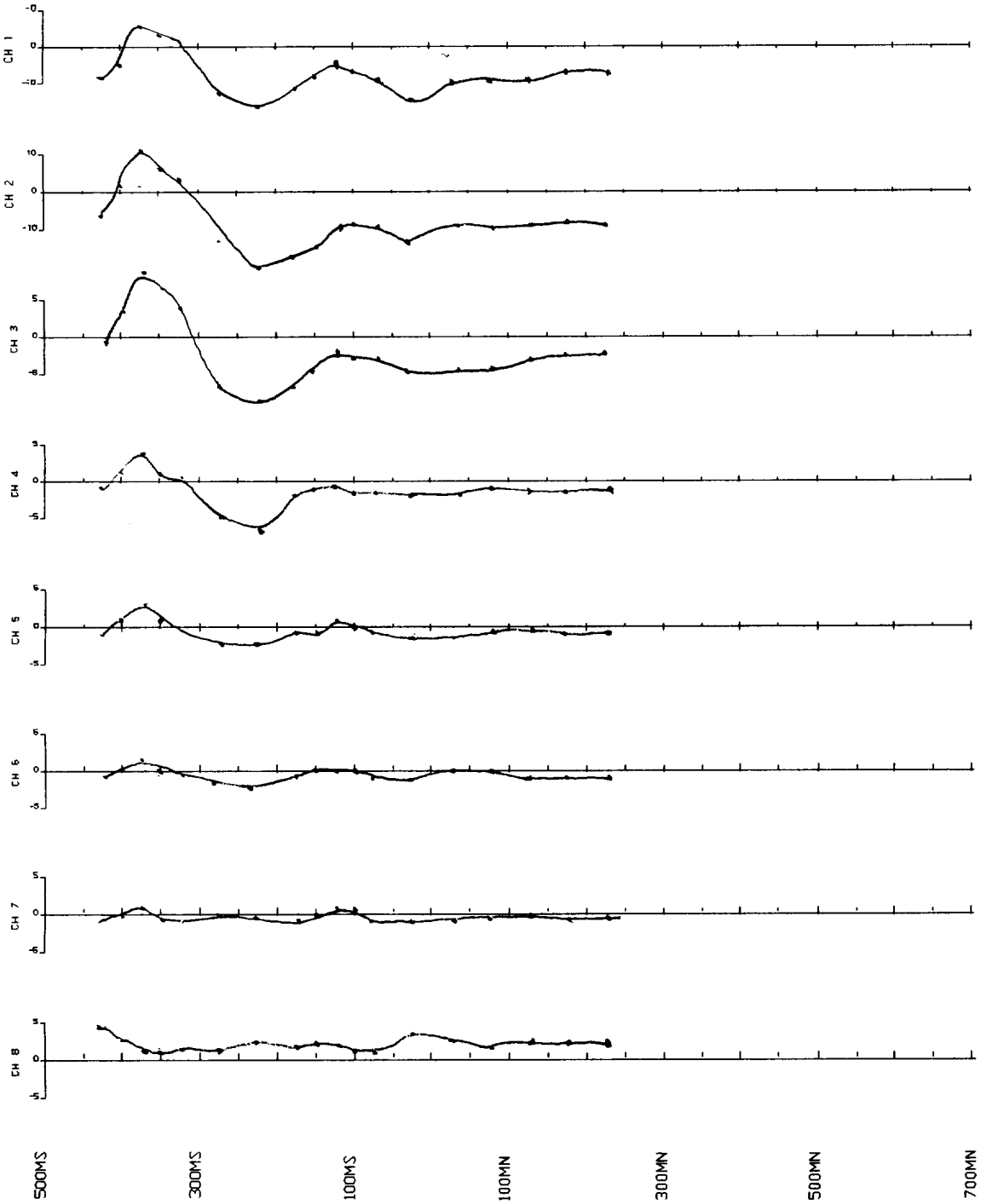
CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

LINE 600ME

TITLE: PEM MOVING COIL SURVEY

DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:

0 100 200 300 400
SCALE (m)

EXSICS EXPLORATION LTD

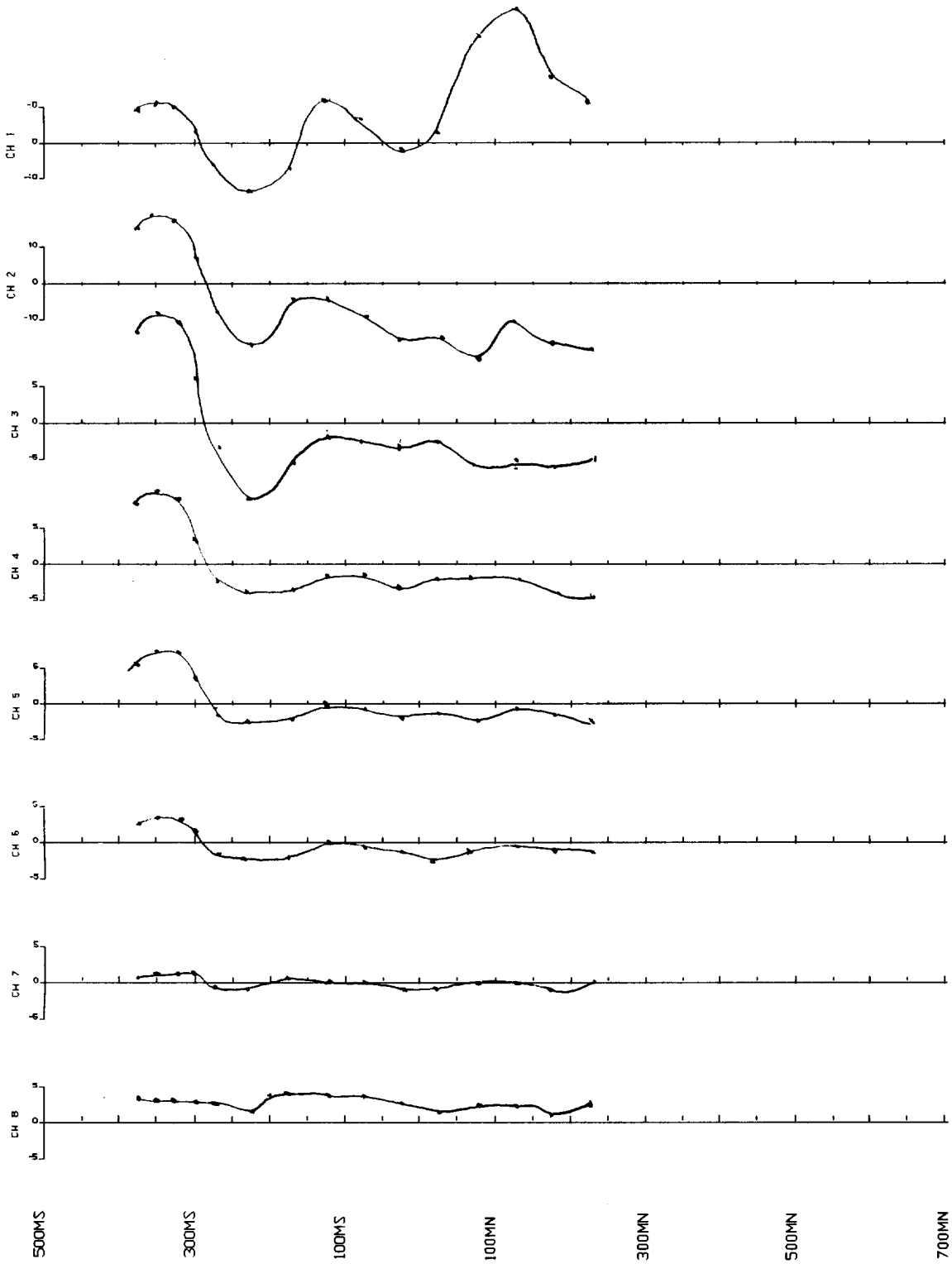
CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

LINE 800ME

TITLE: PEM MOVING COIL SURVEY

DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



N

SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:

0 100 200 300 400
SCALE (m)

EXSICS EXPLORATION LTD

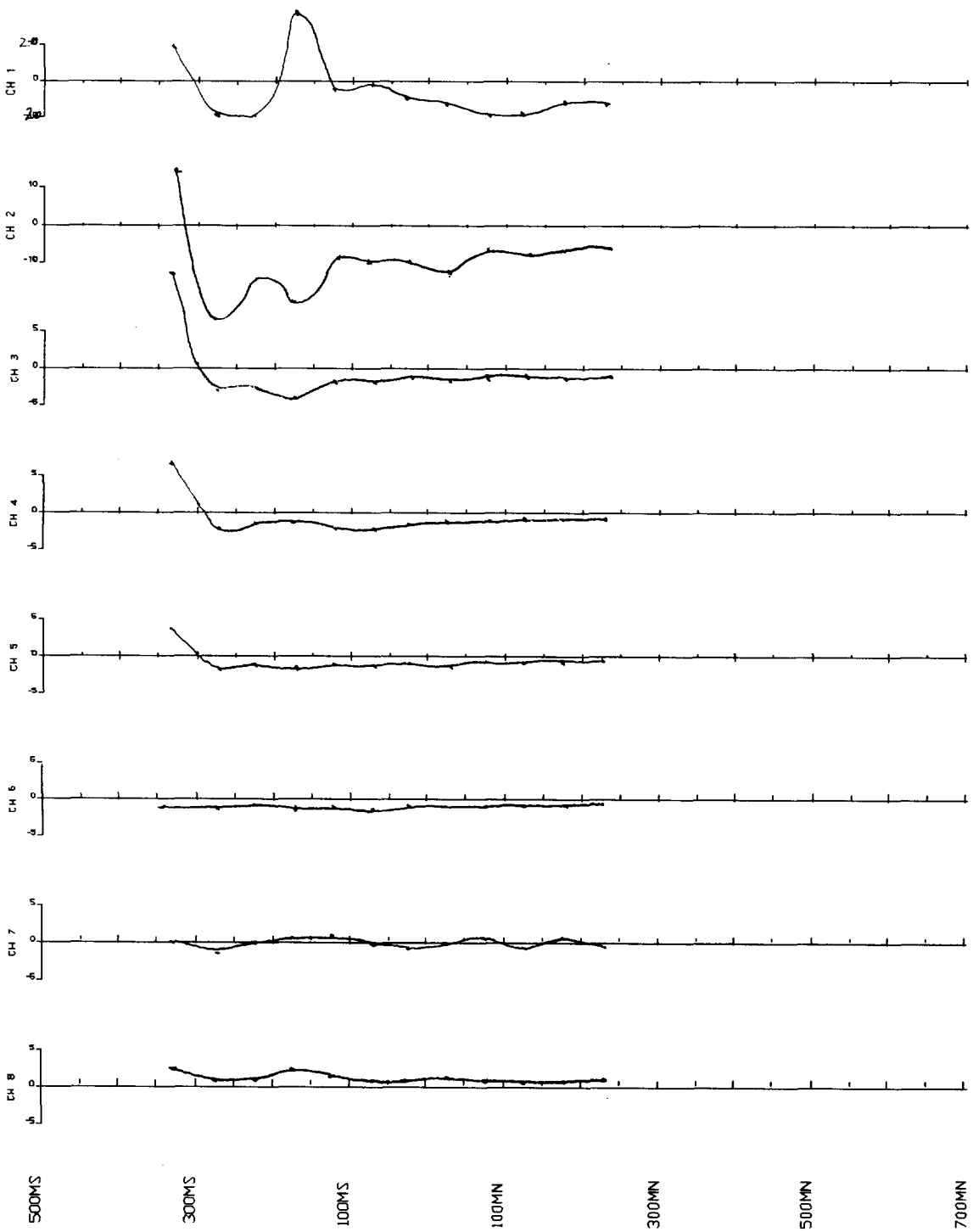
CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

LINE 1000ME

TITLE: PEM MOVING COIL SURVEY

DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



N

SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:

0 100 200 300 400
SCALE (m)

EXSICS EXPLORATION LTD

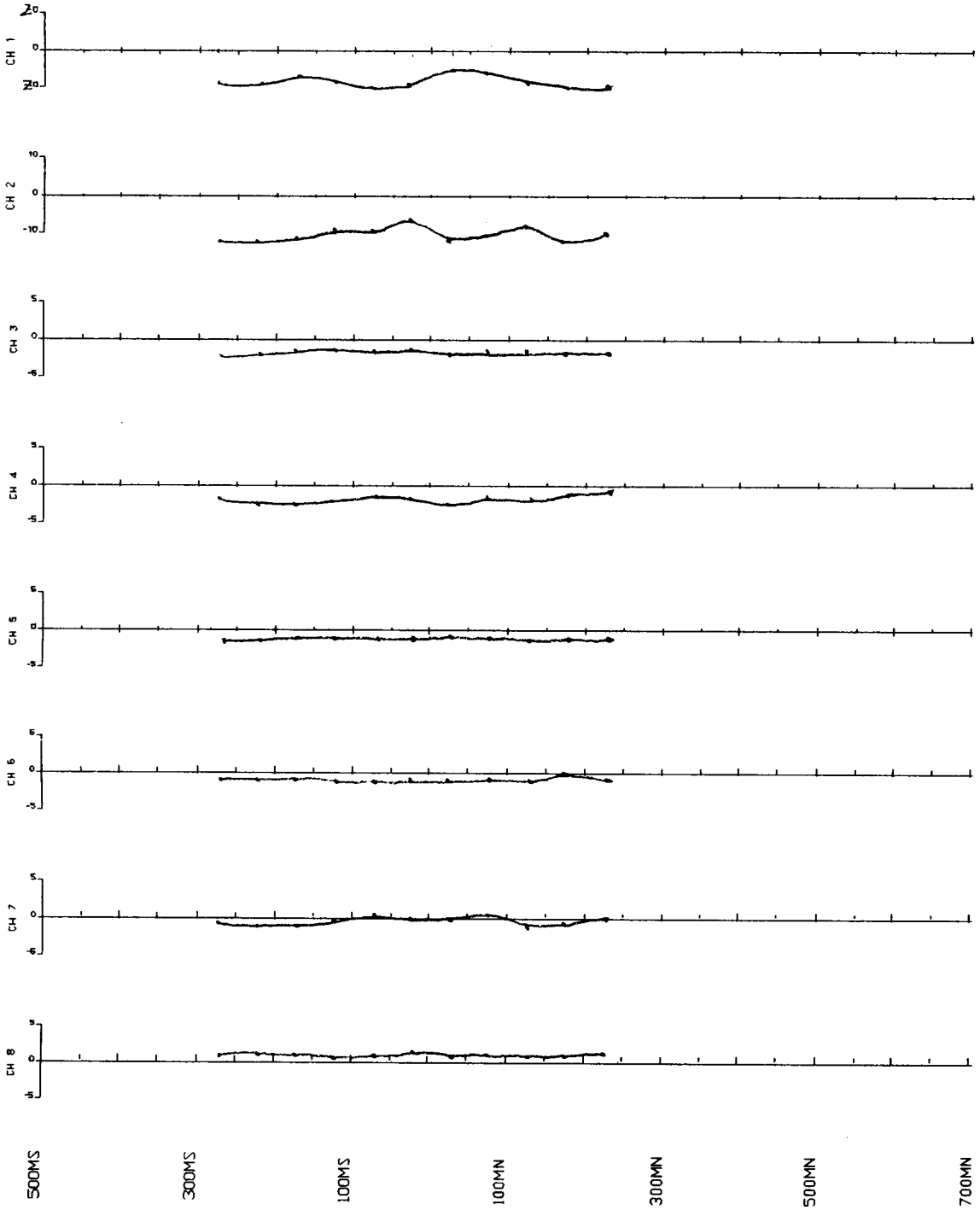
CLIENT: EXPLORER'S ALLIANCE INC.

PROPERTY: MANNING LAKE

LINE 1200ME

TITLE: PEM MOVING COIL SURVEY

DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



SYNCRONIZATION: RADIO LINK
PRIMARY PULSE: 480
COIL SEPARATION: 150m
DEPTH TO SOURCE:
CONDUCTIVITY:
WIDTH:
DIP:

DRILL HOLE CO-ORDINATES:
ANGLE OF DRILL HOLE:
APPROXIMATE DEPTH:

0 100 200 300 400
SCALE (m)

EXSICS EXPLORATION LTD

CLIENT: EXPLORER'S ALLIANCE INC.
PROPERTY: MANNING LAKE
LINE 1400ME
TITLE: PEM MOVING COIL SURVEY
DATE: JAN, 2001 SCALE: 1:5000 JOB NO: E-397

Work Report Summary

Transaction No: W0160.00045 **Status:** APPROVED
Recording Date: 2001-MAR-08 **Work Done from:** 2001-MAR-01
Approval Date: 2001-MAY-28 **to:** 2001-MAR-06

Client(s):

116028 CARON, DENIS DANIEL
186852 RENAUDAT, FRANKLIN
302826 1232448 ONTARIO INC.

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
P 1236002	$6,259	$6,259	$2,046	$2,046	$4,213	4,213	$0	$0	2002-MAR-08
P 1236003	$0	$0	$6,000	$6,000	$0	0	$0	$0	2002-MAR-08
P 1236005	$6,260	$6,260	$3,200	$3,200	$1,787	1,787	$1,273	$1,273	2002-MAR-08
P 1236031	$524	$524	$0	$0	$0	0	$524	$524	2002-FEB-01
P 1236032	$321	$321	$0	$0	$0	0	$321	$321	2002-FEB-01
	$13,364	$13,364	$11,246	$11,246	$6,000	$6,000	$2,118	$2,118	

External Credits: $0

Reserve:

$2,118 Reserve of Work Report#: W0160.00045

$2,118 Total Remaining

Audit Information:

Entered By: ARMSTRONG_DA
Posted/ Unposted By: Armstrong_d 2001-JUN-08
Approved By: Armstrong_d 2001-MAY-28

Status of Claim is based on information currently on record.

42A13SW2003 2.20958 WILHELMINA 900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Tel: (888) 415-9845
Fax:(877) 670-1555

Date: 2001-MAY-29

EXPLORERS ALLIANCE CORPORATION
168 ALGONQUIN BLVD. EAST
TIMMINS, ONTARIO
P4N 1A9 CANADA

Submission Number: 2.20958
Transaction Number(s): W0160.00045

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

This submission was assessed in conjuction with transactions W0060.00494 and W0160.00025 all submitted for credit for linecutting, magnetometer and Pulse electromagnetic surveys on the same claim group. The work was in progress and reported as portions were complete. Although the costs for the entire program are not out of line, it was very difficult to assess the costs reported for the different portions of the program. The statement of costs forms did not accurately reflect the work being claimed in the technical report. In this instance, the work was approved. In the future, the work may not be approved without several changes having to be done.

Because the work was filed so close to the anniversary date of some of the claims, the status of the claims may in the future be in jeopardy. Please note it is strictly a business decision as to when a company performs and files their assessment work. By filing on or close to the anniversary date of a claim you may place the status of your claims in possible jeopardy.

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at lucille.jerome@ndm.gov.on.ca or by phone at (705) 670-5858.

Yours Sincerely,

Ron Gashinski
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

Robert Forest Calhoun
(Agent)

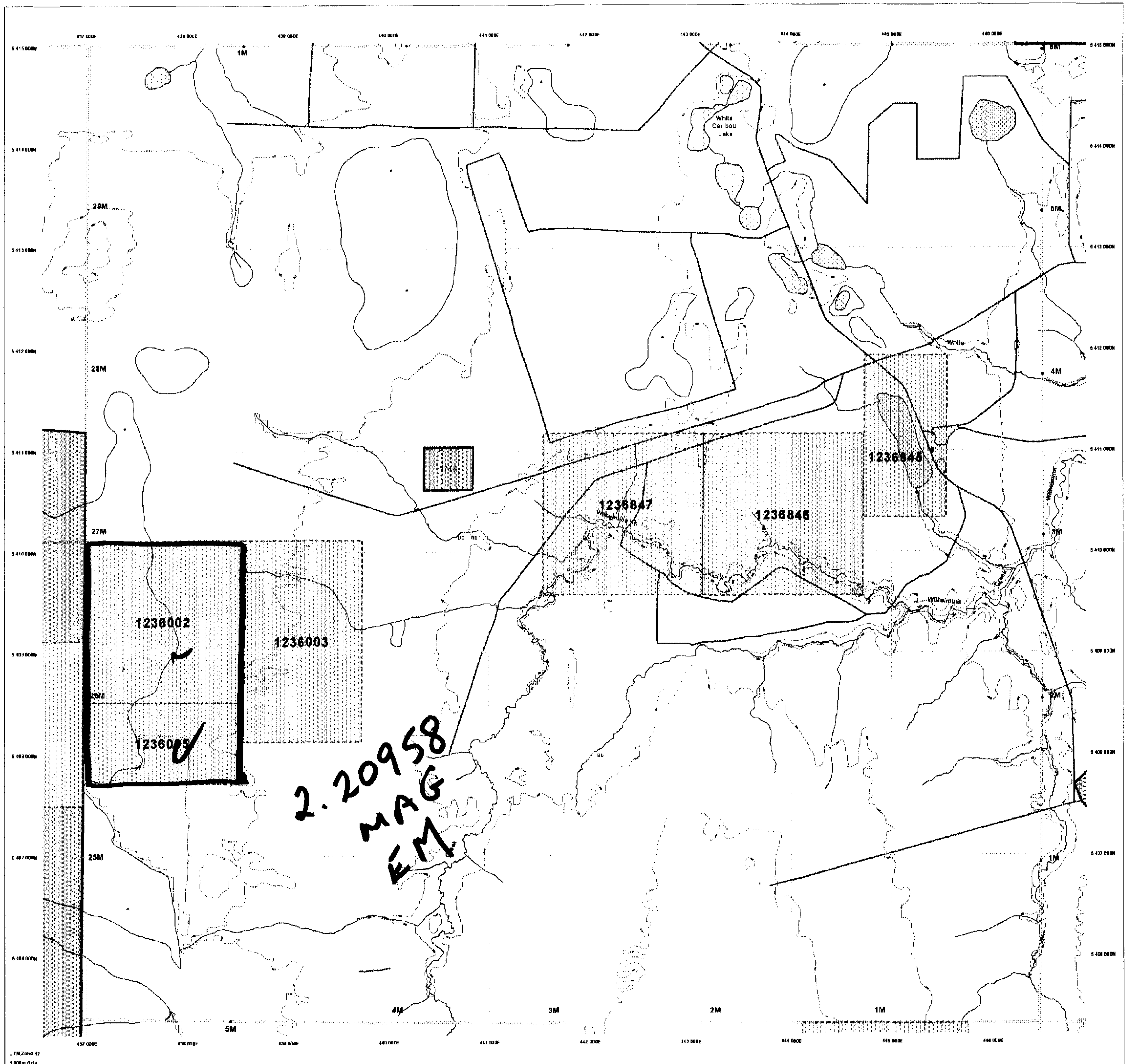
Franklin Renaudat
(Claim Holder)

✓Assessment File Library

Denis Daniel Caron
(Claim Holder)

1232448 Ontario Inc.
(Claim Holder)

Explorers Alliance Corporation
(Assessment Office)



MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue Apr 23 2001 13:34h Eastern

TOWNSHIP / AREA: WILHELMINA

PLAN: G-3586

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Porcupine
Land Titles/Registry Division	COCHRANE
Ministry of Natural Resources District	TIMMINS

TOPOGRAPHIC

LAND TENURE

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
2748	Wsm	Jan 1 2001	N.R.&S.R. WITHDRAWN FROM PROSPECTING,STAKING OUT,SALE OR LEASE UNDER SEC.3 OF THE MINING ACT R.S.O.1990 ORDER NO.W-P 46/94 NER DATED 04-MAY-02
W-LL-C1691	Wsm	May 7 1999	SEC 35 W-LL-C1691/99 ONT. MAY 7/99 M&S
W-LL-C1702	Wsm	May 17 1999	Sec. 35 W-LL-C1702/99 ONT. 17/05/99 M & S

IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

General Information and Limitations

42A13SW2003 2.20958 WILHELMINA 210

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

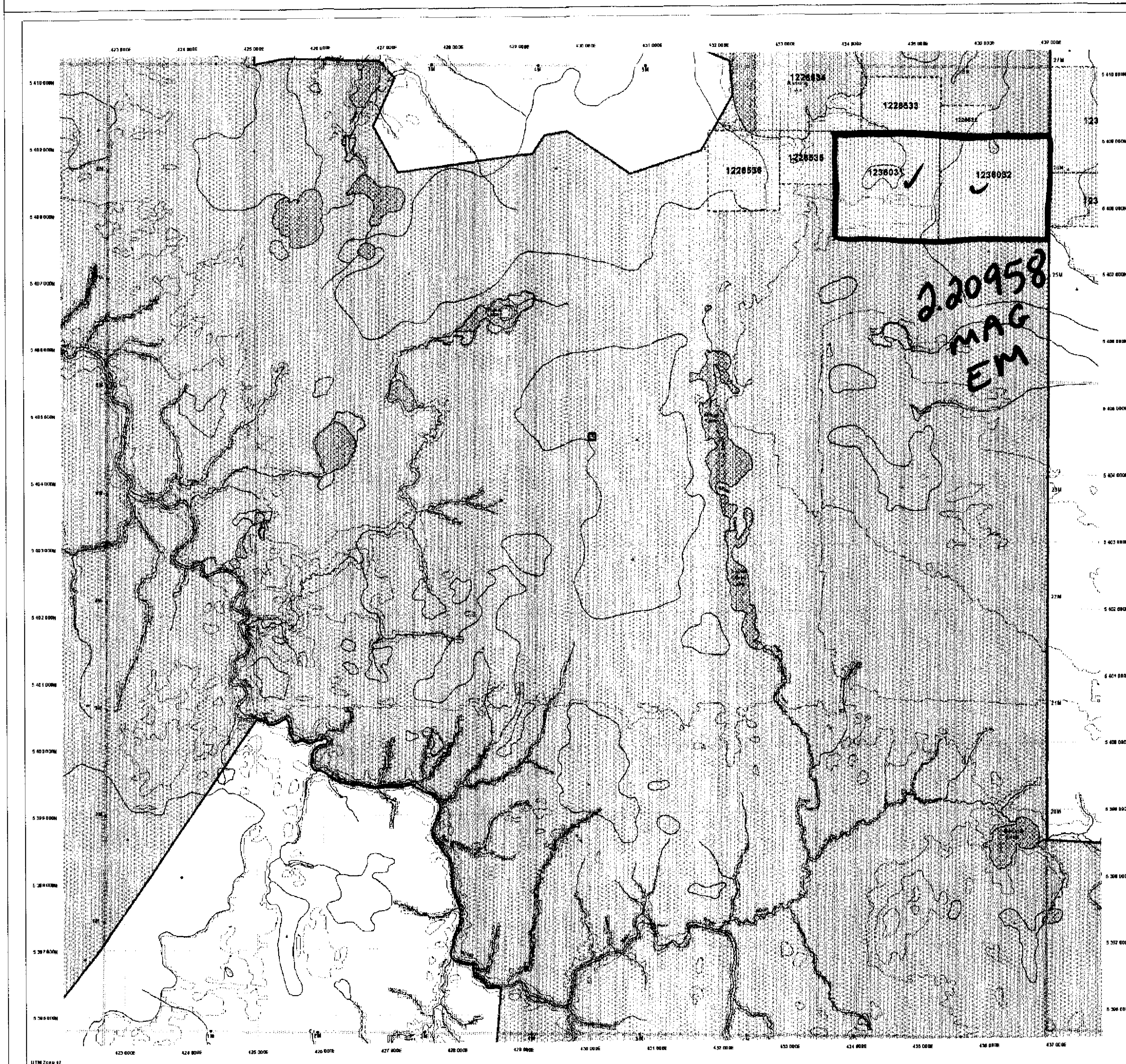
MINING LAND TENURE MAP

Date / Time of Issue Apr 23 2001 13:27h Eastern

TOWNSHIP / AREA: AITKEN
PLAN: M-0623

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Porcupine
Land Titles/Registry Division	COCHRANE
Ministry of Natural Resources District	HEARST



TOPOGRAPHIC

LAND TENURE

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
2860	Wsm	Jan 1 2001	400 FEET SURFACE RIGHTS RESERVATION AROUND ALL LAKES & RIVERS
8875	Wsm	Jan 1 2001	MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P-17/94 HER DATED MARCH 15, 1994 AT 20:23 HOURS
W.L.L. P1569	Wsm	May 15 1999	SEC.35 W.L.L. P1569/99 ONT MAY 15/99 M&S (200 METRES FROM WATER'S EDGE)
W.L.L. C1702	Wsm	May 17 1999	SEC. 35 W.L.L. C1702/99 ONT 17/05/99 M & S

IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Lands Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

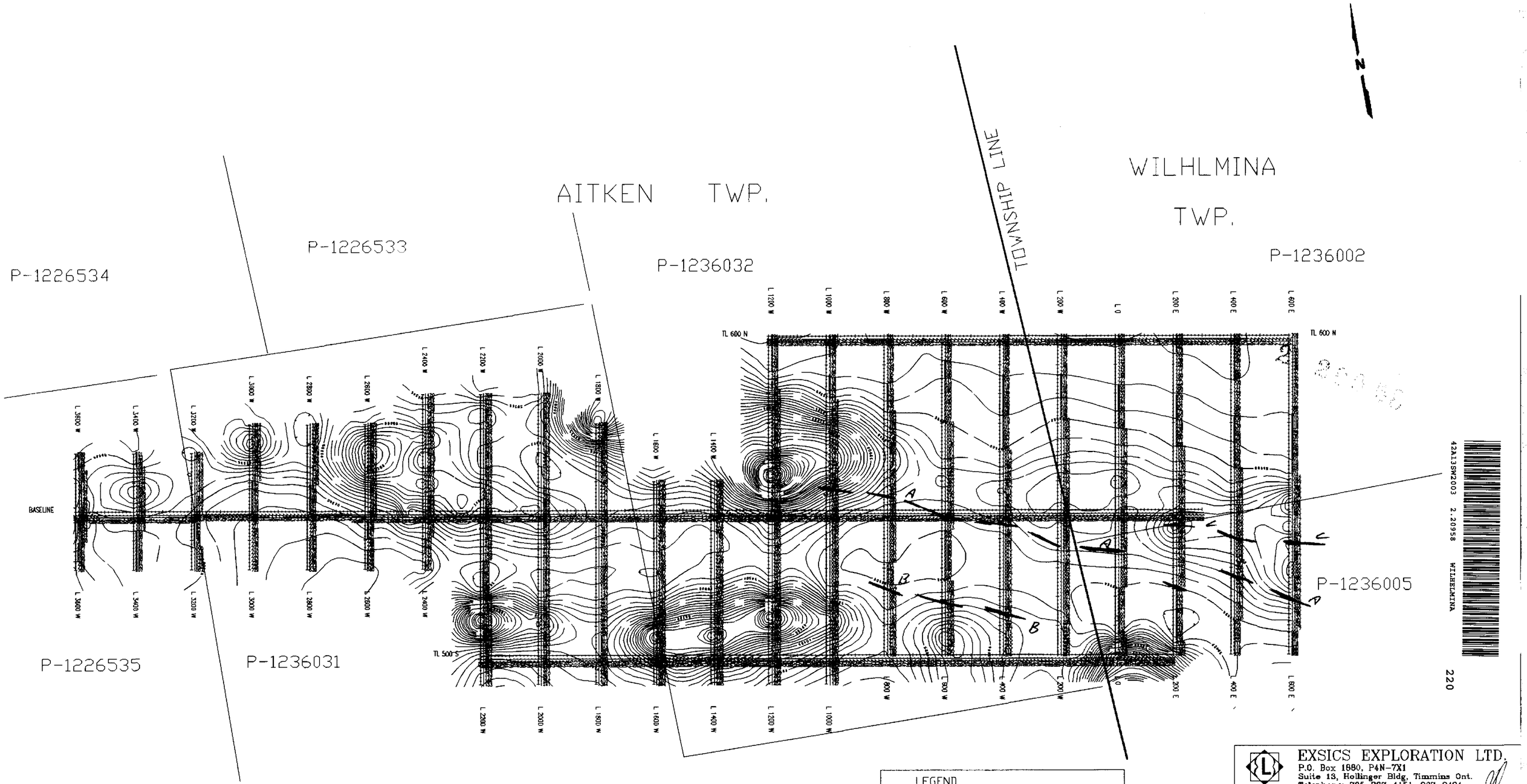
General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre
933 Ramsey Lake Road
Sudbury, ON P3E 6B5
Home Page: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Toll Free
Tel: 1 (888) 415-9845
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licenses, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



LEGEND
Instrument: SCINTREX ENVI MAG. BRGM OMNI-IV
Parameters Measured: Earth's total magnetic field
Accuracy: +/- 0.1 nano-teslas
Diurnals: Corrected by base station recorder
Contour Interval: 0,100,200,300,400.....
Reference Field: 58,500 gammas
Datum Subtracted:57,000 gammas

0 50 100 150 200
SCALE (m)

EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151, 267-2424

CLIENT: EXPLORER'S ALLIANCE INC.
PROPERTY: MANNING LAKE GRID
TITLE:
TOTAL FIELD MAGNETIC

Date:MAR.,2001	Scale: 1:5000	NTS:
Drawn:J.C.Grant	Interp: J.C.Grant	Job No.: E-397