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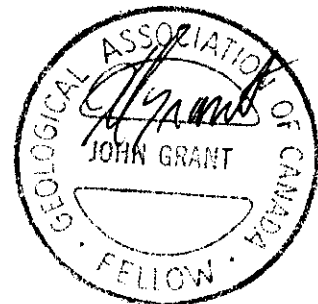
2.20869

WILHELMINA

010

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

**2. 20869**



Prepared by: J. C. Grant, CET, FGAC  
January, 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 program. 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.

The follow up ground program commenced on the 20<sup>th</sup> of January with additional coverage of the cut grid, commencing on line 200ME and reading the grid to and including 1000MW . 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 initial 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 hectares, 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.

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 from 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.

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.

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

Yvon Collin was responsible for opening the skidoo access trails and for staying ahead of the survey crew by breaking trails directly to the starting 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 200ME to and including 1200MW. 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 200ME to and including 1000MW and they were read from 500MS to 600MN. 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 12 kilometers of magnetics have also been completed to date.

This additional coverage of the grid in a westward direction was quite successful in locating and outlining two main conductive zones as well as several single line responses. The 150 meter coil separation was successful in outlining the conductive zones under quite deep and highly conductive overburden.

The main zone, called A, is a well defined conductor which generally lies along the contact between a broad magnetic high and low unit that covers most of the central south sections of lines 200ME to 1000MW. The magnetic survey defines this area quite well. This conductor is situated at a depth to source ranging from 70 to 90 meters and with a conductivity range of 6 to 25 mohs. The zone appears to dip slightly grid west. Line 0+00 places the zone at a shallower depth than the rest of the survey which may be due to undulating overburden.

Another conductive zone was outlined across lines 400MW to and including 800MW and it appears to lie along the south margin of a magnetic low unit which suggest it may also relate to a contact style target. This zone is at a depth of about 90 meters with a conductivity of 5 to 7 mhos and it is open along strike. Further coverage of this zone, to the south, is required to better define the characteristics of this conductor.

There is another zone noted on line 200ME at 225MS which may be part of zone A. It is situated at a depth of 95 to 110 meters with good conductivity of 7 to 12 mohs. It also dips to the south. This zone lies at the north margin of a broad magnetic low unit.

There is a weaker zone situated at 25MS on Line 200Me as well but it requires further coverage to better define the source.

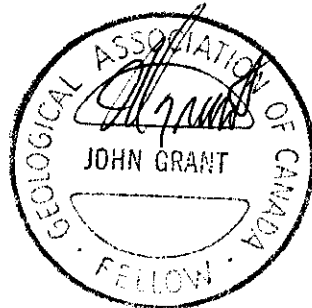
A final weak zone was also noted on line 0+00 at 175MN which also requires further coverage to better define it's origin. This zone also lies at the north contact of a broad mag High as well.

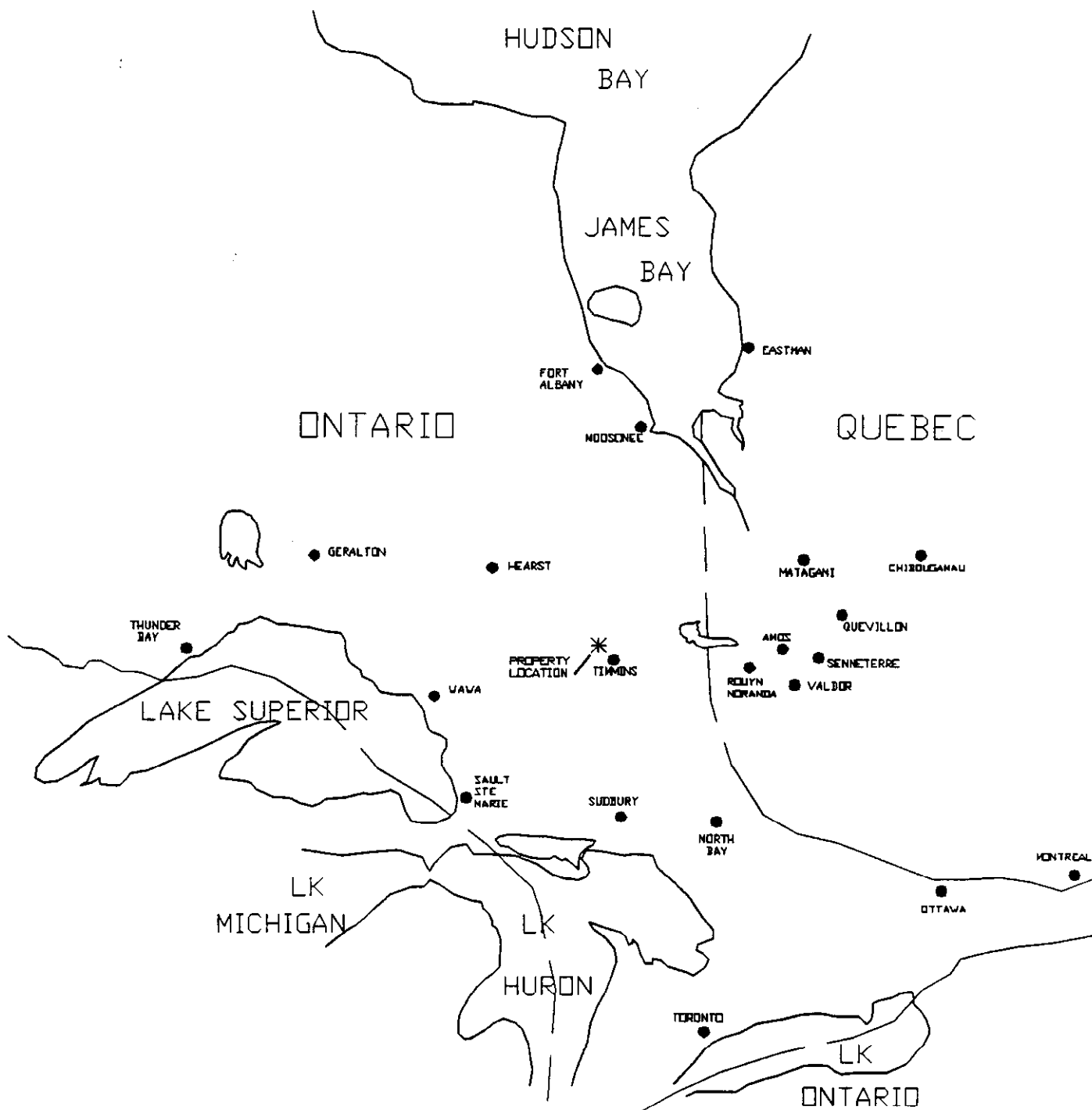
#### CONCLUSIONS AND RECOMMENDATIONS:

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 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  
January, 2001





**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**

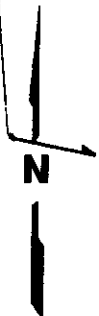
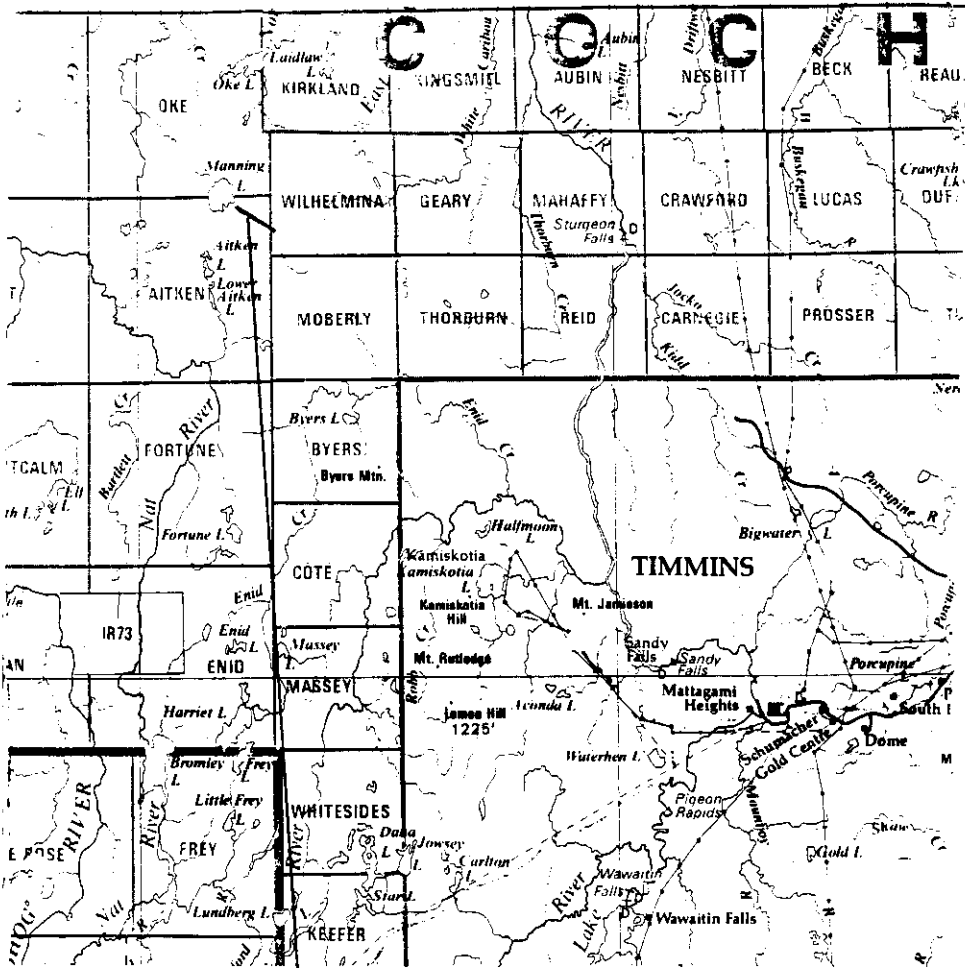
TITLE: **AIKEN, OKE, WILHEMINA TWPS.**


**LOCATION MAP**

Fig. 1

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





 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424		
CLIENT: <b>EXPLORER'S ALLIANCE INC.</b>		
PROPERTY: <b>MANNING LAKE</b>		
TITLE: <b>AIKEN, OKE, WILHEMINA TWPS.</b>		
<b>LOCATION MAP</b>		
Fig. 2		
Date: NOV., 2000	Scale: 1" = 125 miles	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-397

MANNING

OKE

TOWNSHIP

WILHELMINA

TOWNSHIP

TOWNSHIP

LINE

1236004

6 UNITS

LAKE

P-1226534

16 UNITS

P-1226533

6 UNITS

P-1226532

2 UNITS

P-1236002

P-1236003

P-1226535

4 UNITS

P-1236032

16 UNITS

15 UNITS

P-1226536

9 UNITS

P-1236031

16 UNITS

P-1236005

8 UNITS

16 UNITS

AITKEN

TOWNSHIP

0 400 800 1600



SCALE (M)



EXSICS EXPLORATION LTD.

P.O. Box 1980, P4N-7X1  
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

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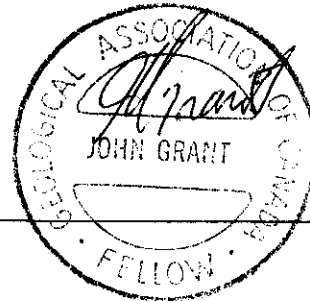
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CERTIFICATION

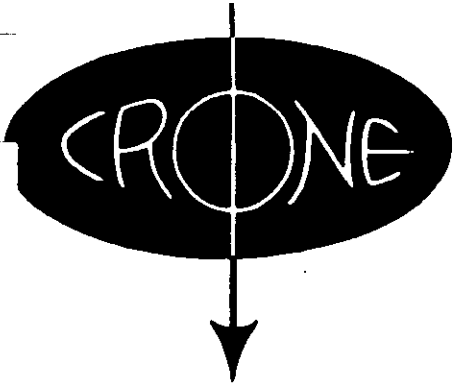
I, John Charles Grant, of 108 Kay Crescent, in the City of Timmins, Province of Ontario, hereby certify that:

- 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 15<sup>th</sup> 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.

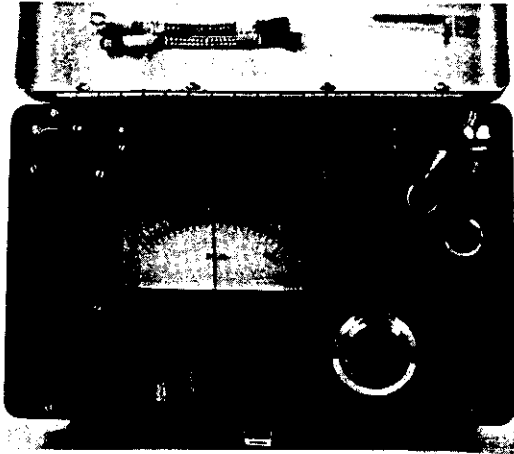


*APPENDIX A*



# CRONE GEOPHYSICS LIMITED

## PEM RECEIVER

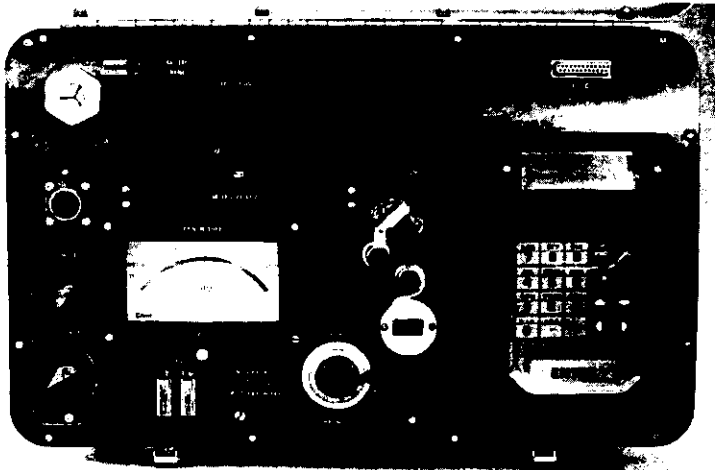


### Proven Reliability & Flexibility

- 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  $-50^{\circ}\text{C}$
- 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:** 28 cm x 18 cm x 27 cm  
(11" x 7" x 10½")

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

**WEIGHT:** 7 kg (16 lb)

**SHIPPING WEIGHT:** 14.5 kg (32 lb)

## 2. OPTIONAL DATALOGGER RECEIVER

- Uses above receiver in conjunction with Omnidata Polycorder.<sup>®</sup>
- 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:** 14.5 kg (32 lb)

**SHIPPING WEIGHT:** 21.8 kg (48 lb)

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

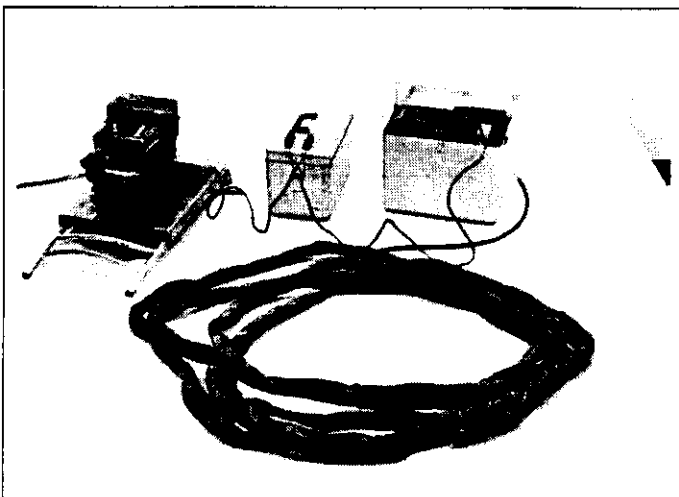
**SHIPPING DIMENSIONS:** 35 cm x 30 cm x 53 cm  
(14" x 11¾" x 21")

\* Specifications subject to change without notice.



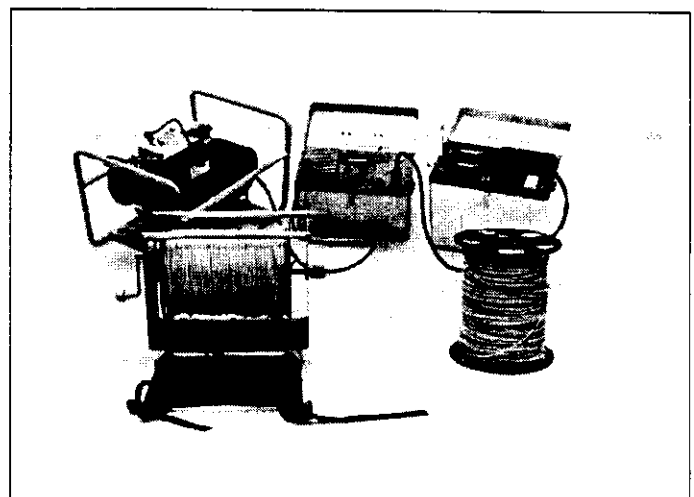
# PULSE EM TRANSMITTER EQUIPMENT

- 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<sup>2</sup> 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<sup>2</sup> 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*

**APPENDIX B**



# 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.

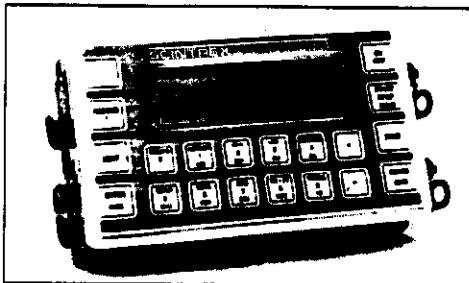


*ENVI-MAG Proton Magnetometer in operation*

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

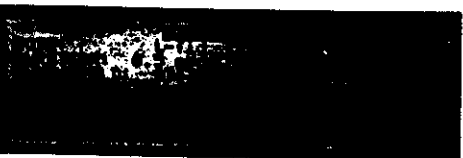
"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



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

### Interactive Menu

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 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: 108,000 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, 800 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

Date: 2001-MAY-22

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

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

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

**Submission Number: 2.20869**  
**Transaction Number(s): W0160.00025**

Dear Sir or Madam

**Subject: Deemed Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s) as per 6(7) of the Assessment Work Regulation. Only eligible assessment work is deemed approved for assessment work credit. 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.

Assessment work credit has been redistributed, as outlined on the attached Work Report Summary, to better reflect the location of the work.

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,



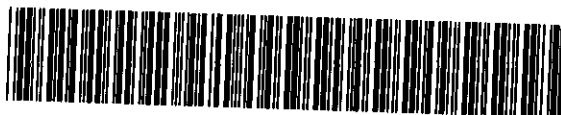
Ron Gashinski  
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

Denis Daniel Caron  
(Claim Holder)  
1232448 Ontario Inc.  
(Claim Holder)

Assessment File Library

Franklin Renaudat  
(Claim Holder)  
Explorers Alliance Corporation  
(Assessment Office)



42A13SW2001 2.20869 WILHELMINA

900

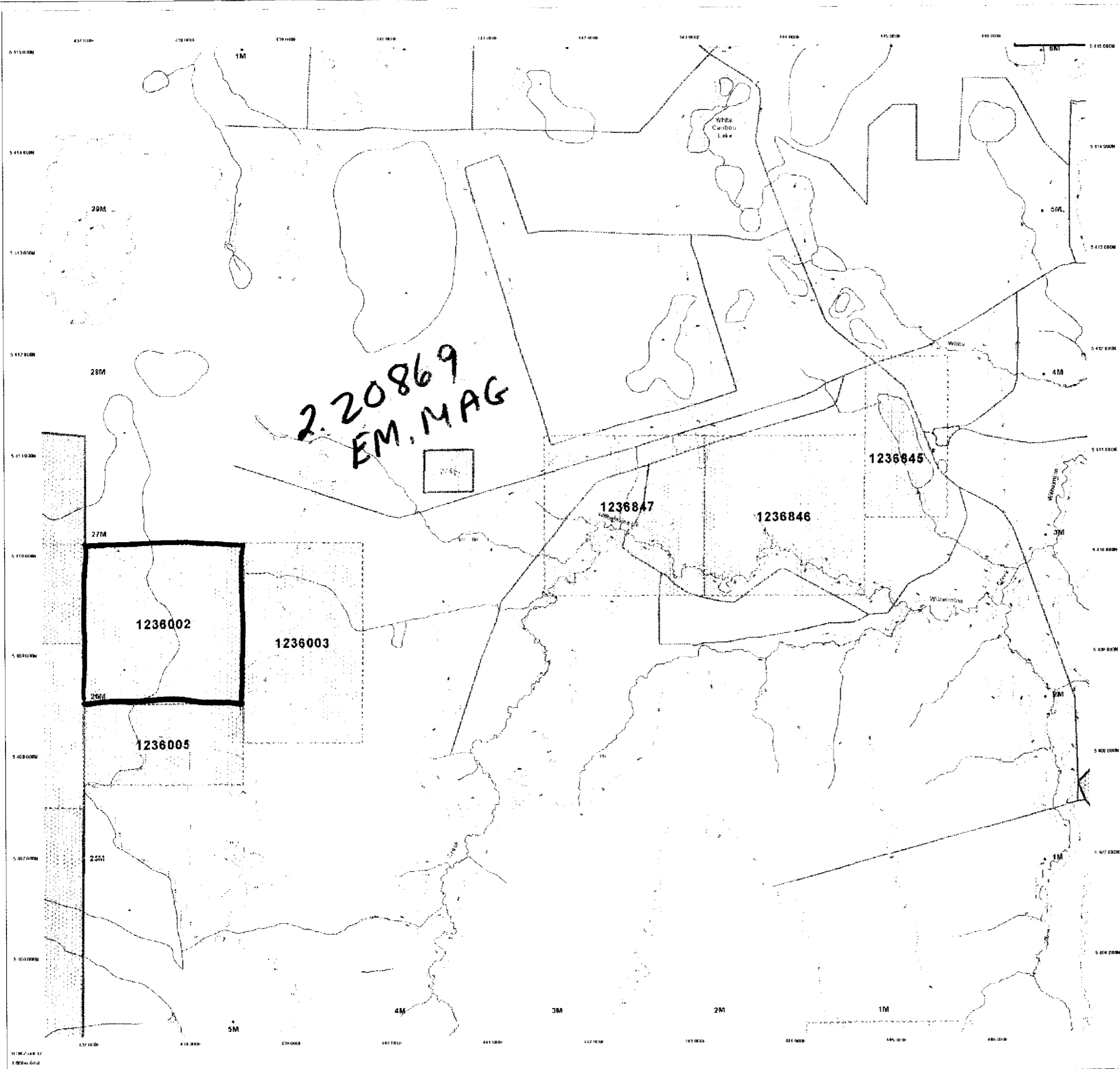




Date / Time of Issue Apr 23 2001 13:34h Eastern

TOWNSHIP / AREA WILHELMINA PLAN G-3586

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



2.20869 EM. MAG

TOPOGRAPHIC

- Administrative Boundaries: Township, County, Precinct, Water Feature, Contour Line, Elevation, Crown Survey Boundary, etc.

LAND TENURE

- Land Tenure: Freehold Estate, Leasehold Estate, Easement of Occupancy, etc.

LAND TENURE WITHDRAWALS

- Withdrawal Types: Mining Act Withdrawal Types, etc.

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Table with columns: Identifier, Type, Date, Description. Lists withdrawal details for various mining claims.

IMPORTANT NOTICES

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



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Users wanting to make mining claims should consult the Mining Act and Regulations of the Ministry of Northern Development and Mines for details...

General Information and Limitations

Contact Information: Ontario Mining Records Office, 100 University Ave, Toronto, ON M5S 1A5. Phone: 416-325-1500.

This map may not show the most current information. Users should consult the Mining Act and Regulations for the most up-to-date information.

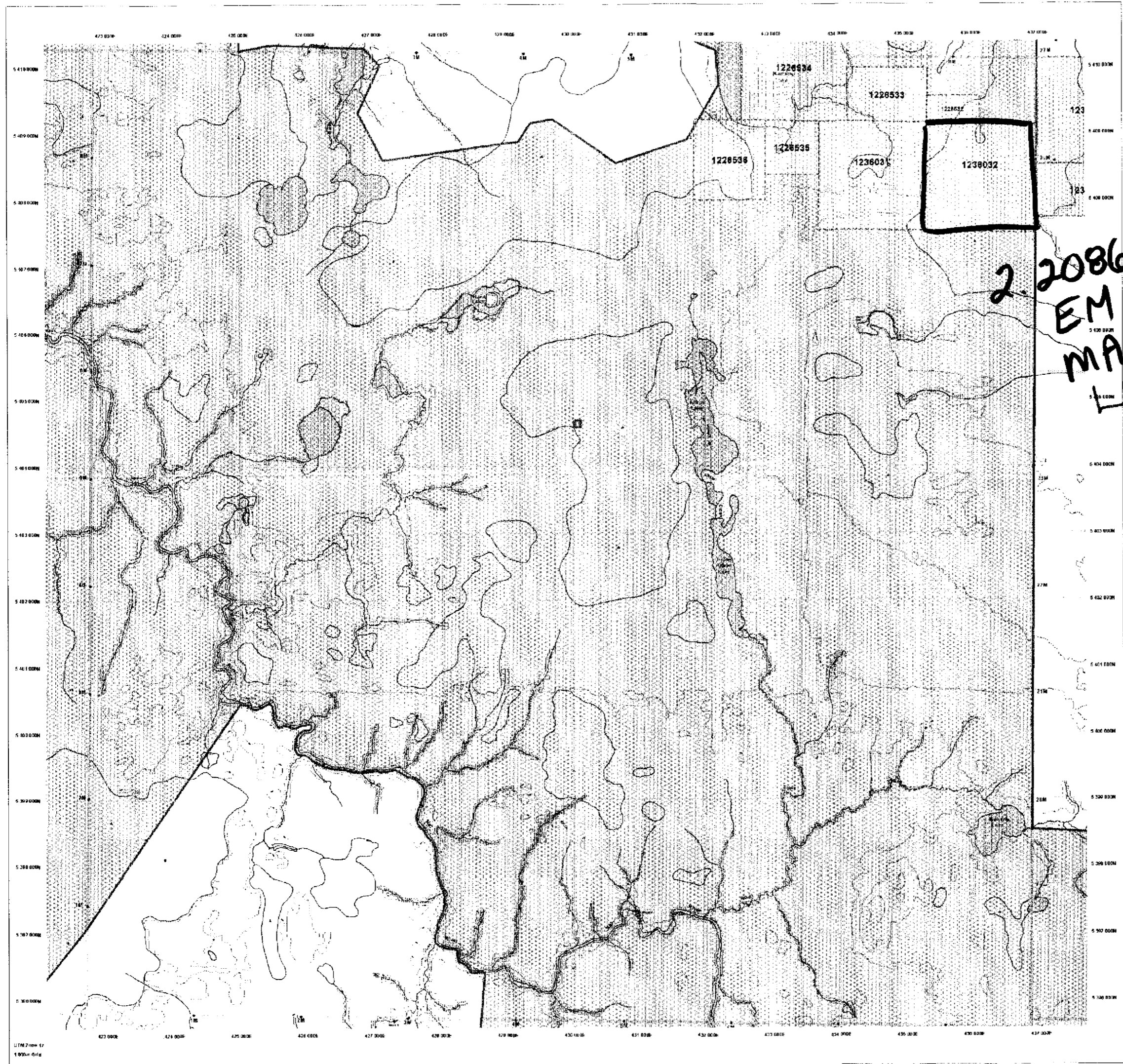


Date / Time of Issue Apr 23 2001 13:27h Eastern  
TOWNSHIP / AREA PLAN  
AITKEN M-0623

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

TOPOGRAPHIC	LAND TENURE
Administrative Boundaries	From the Plans
Topographic	Surface and Mining Rights
Contour, LOT	Surface Rights Only
Proposed Plan	Mining Rights Only
Boundaries	Known and Planned
City, P.E. and P.B.	Surface and Mining Rights
Centre	Surface Rights Only
Control - Agric. Withdrawal	Mining Rights Only
Shed	License of Occupancy
Mine Headframe	License of Occupancy
Feature	Surface and Mining Rights
Flow	Mining Rights Only
Trail	Mining Rights Only
Natural Gas Piping	License of Occupancy
Water Line	License of Occupancy
Communication Line	License of Occupancy
Wooded Area	License of Occupancy
Municipal, Central, Hospital, Fire, School	Mining Plans
	1234567 Mining Plans
	LAND TENURE WITHDRAWALS
	1234567 Areas Withdrawn from Disposition Mining Act Withdrawal Types
	W1W1 Surface and Mining Rights Withdrawal
	W1M1 Mining Rights Only Withdrawal
	W1M2 Order in Court & Withdrawal Types
	W1M3 Surface and Mining Rights Withdrawal
	W1M4 Mining Rights Only Withdrawal
	W1M5 Mining & License of Occupancy
	IMPORTANT NOTICES
	1234567

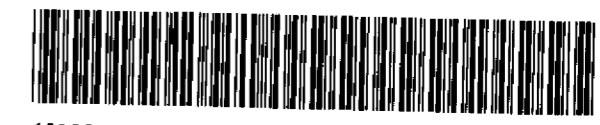
2.20869  
EM  
MAG  
LC



LAND TENURE WITHDRAWAL DESCRIPTIONS

Ministry	Type	Date	Description
2090	W1M1	Jan 1 2001	ORDER SURFACE RIGHTS RESERVATION AROUND ALL LAKES & RIVERS
2070	W1M1	Jan 1 2001	MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 25 OF THE MINING ACT
			H & D 1500 (LULLIN RD. W.P. 1204) PER DATED MARCH 15, 1984 AT 04:03 HOURS
W1L 01500	W1M1	Mar 15 1984	SEC 25 W.L. 01500 ON MAY 15 1984 HAS (20) METRES FROM WATER'S EDGE
W1L 01702	W1M1	Mar 17 1984	W.L. 01702 ON MAY 17 1984 HAS (20) METRES FROM WATER'S EDGE

IMPORTANT NOTICES  
Areas under withdrawal, regulations, conditions or conditions and the effect thereof, preventing mining and mineral development activities.



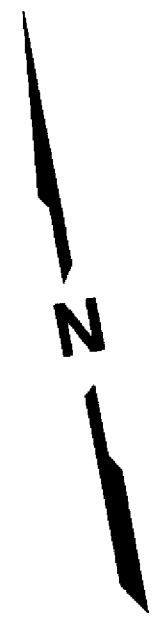
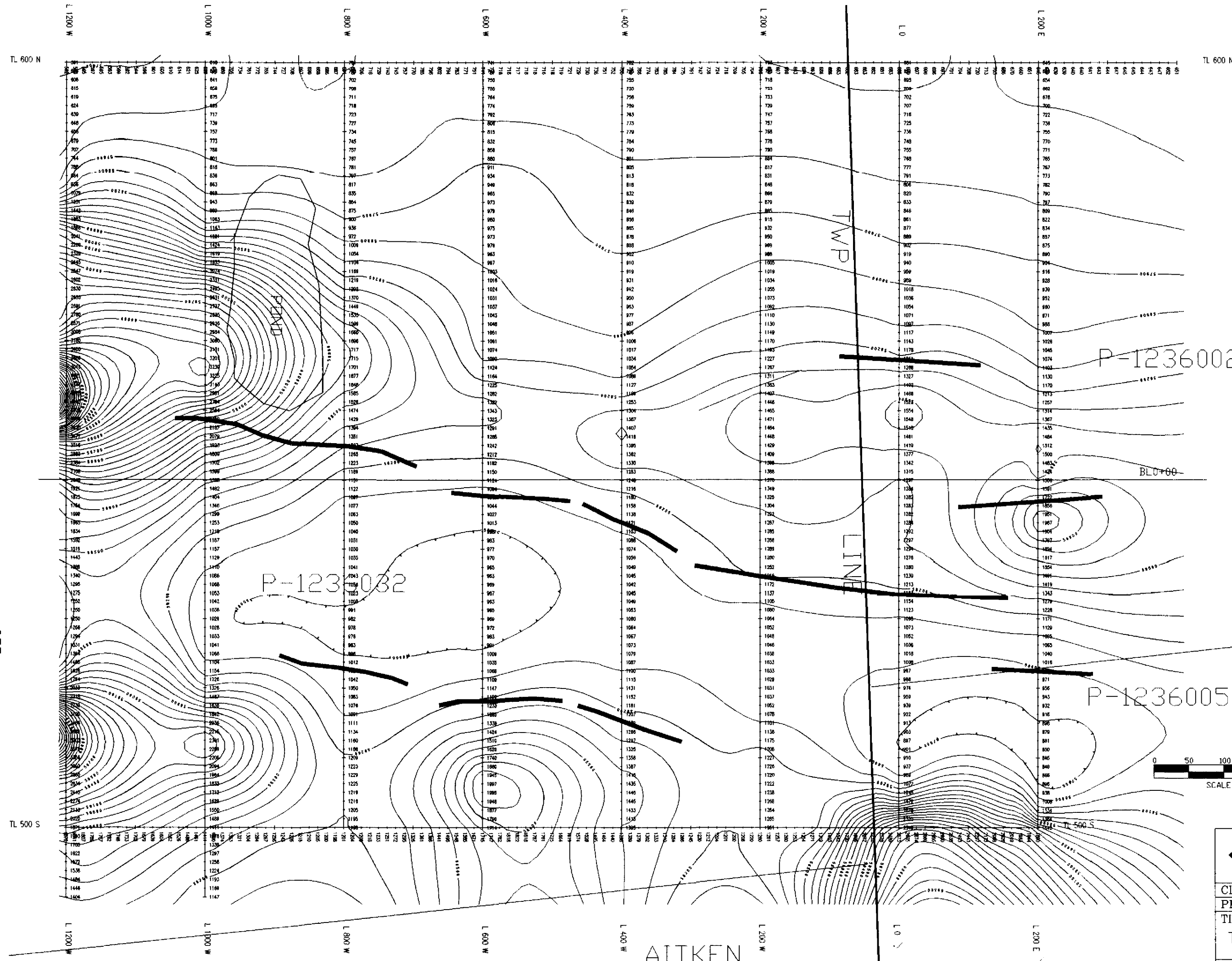
42A13SW2001 2.20869 WILHELMINA

This mining plan and mining claims should comply with the Provincial Mining Record Office of the Ministry of Northern Development and Mines for a plan which will be the status of the plan shown herein. The map is not intended for cadastral, survey, or land title purposes. The information shown on this map is derived from public records. Coordinates and scale are not guaranteed. Additional information may be obtained through the Land Titles and Registry Office at the Ministry of Natural Resources.

General Information and Limitations  
Contact Information:  
Provincial Mining Records Office - Toll Free  
4800 Glen Hiller Centre 1-877-435-2846  
535 Ramsey Lake Road 1-800-387-6188  
Sudbury, ON P1S 4W8 Fax: 705-526-1244  
Home Page: www.gov.on.ca/MNDM/MI/44\_Abit/44bitpage.htm

Map Datum: NAD 83  
Projection: UTM (48 zone)  
Elevation: Data Source: Land Information Ontario  
Mining Law: Ontario Mining Act, Provincial Mining Record Office

This map may not show all rights in land (e.g. air rights) and may not include certain interests, easements, rights of way, quarry rights, licenses, or other forms of disposition of rights and interests of the Crown. Also, certain land tenure and uses that conflict or prohibit the ability to make mining claims may not be illustrated.



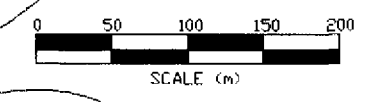
WILHELMINA

AITKEN


P-1236002

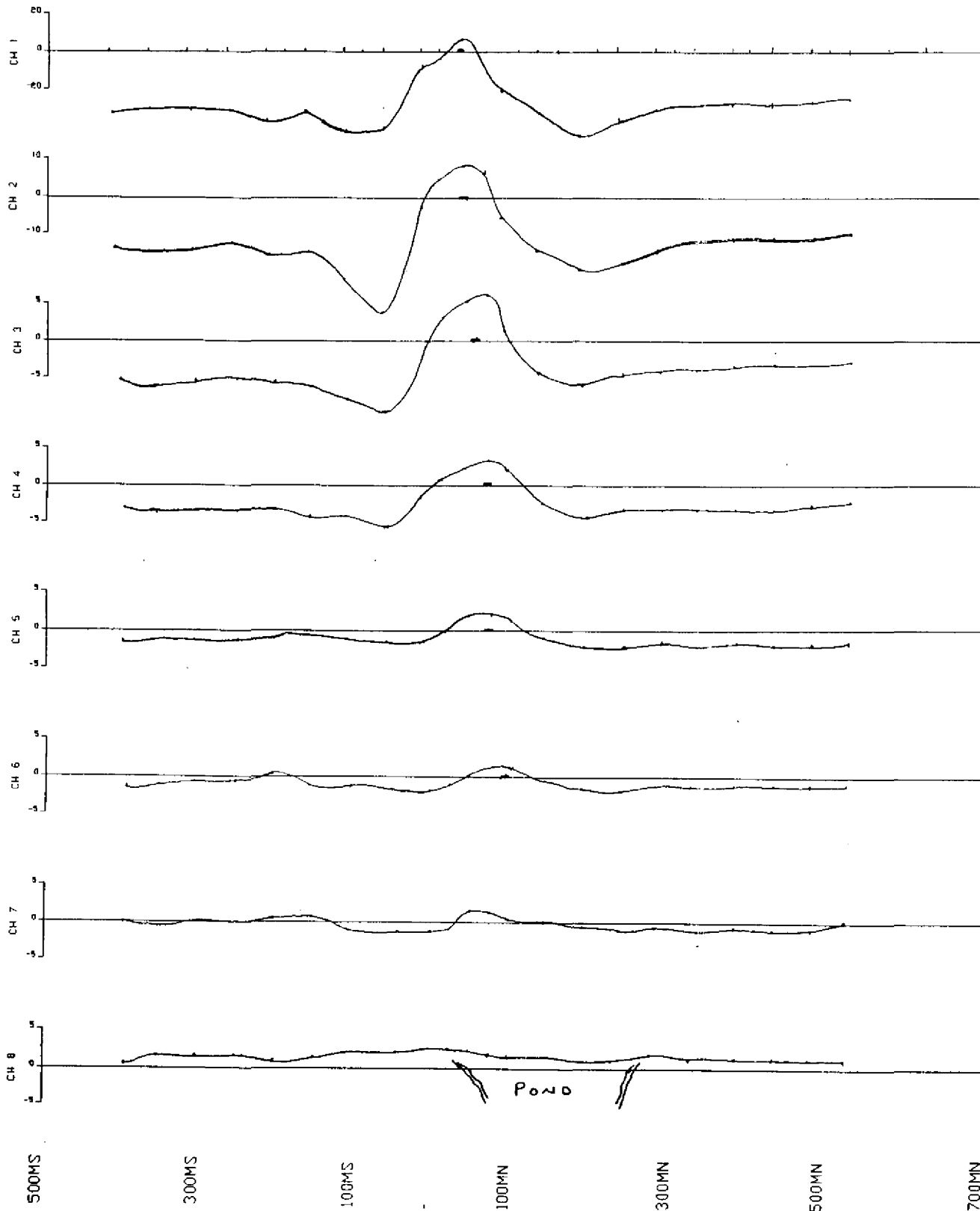
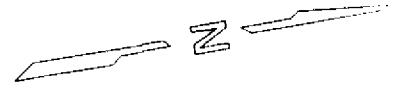
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P-1236005



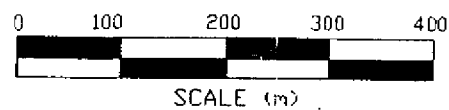
**LEGEND**  
 Instrument: SCINTREX ENV1 MAG, BRGM DMNI-IV  
 Parameters: Measured Earth's total magnetic field  
 Accuracy: +/- 0.1 nano-teslas  
 Turns: Corrected by base station recorder  
 Contour Interval: 0.100, 200, 300, ...  
 Reference Field: 58500 gammas  
 Datum Subtracted: 57000 gammas

		
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 SURVEY		
Date: JAN., 2001	Scale: 1:2:500	NTS:
Drawn: J.C. Grant	Interp: J.C. Grant	Job No.: E-397



SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 480  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE: 70-90m  
 CONDUCTIVITY: 7-9mho  
 WIDTH:  
 DIP: 61° SOUTH

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

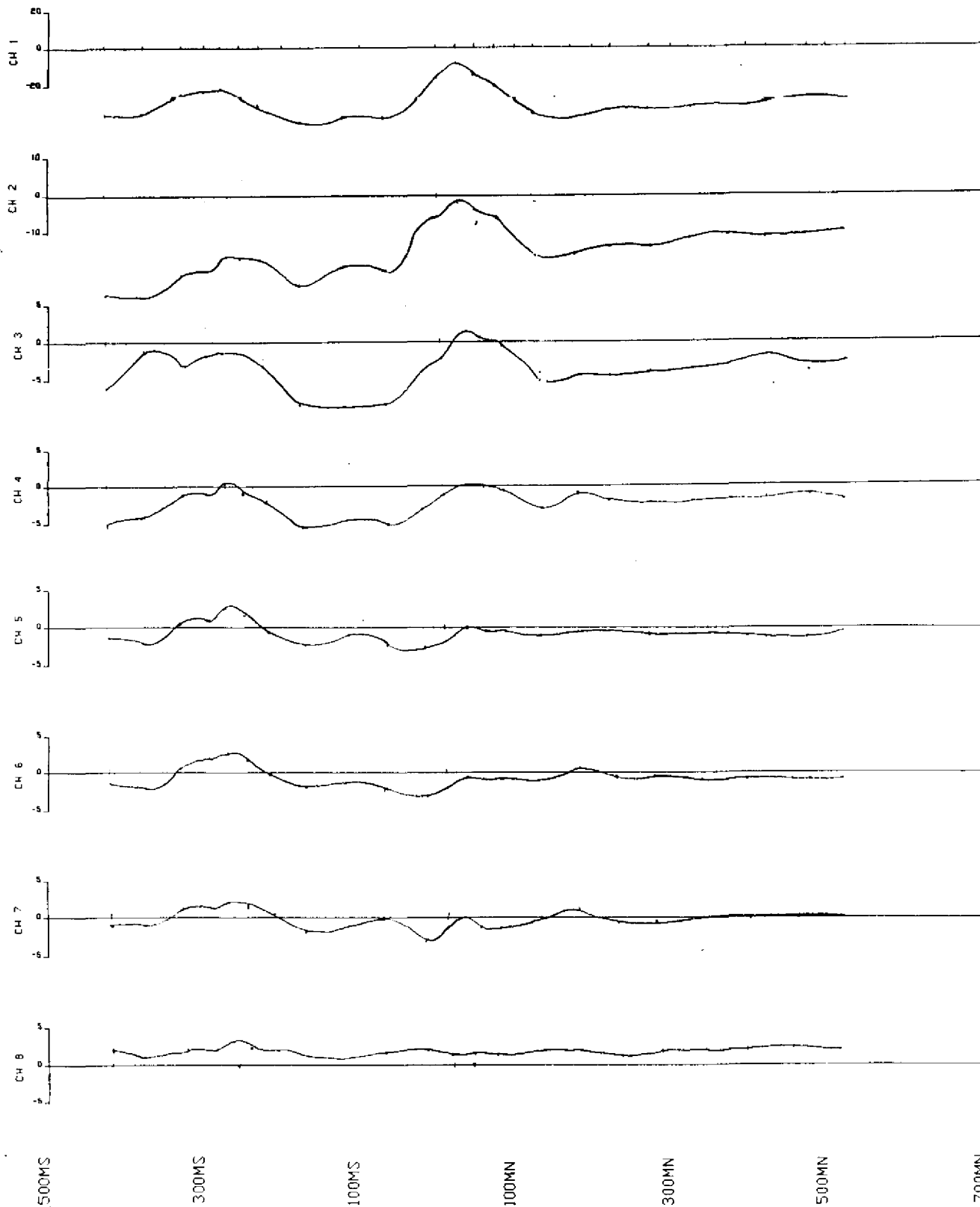


EXSICS EXPLORATION LTD  
 CLIENT: EXPLORER'S ALLIANCE INC.  
 PROPERTY: MANNING LAKE  
 LINE 1000MW  
 TITLE: PEM MOVING COIL SURVEY  
 DATE: JAN, 2001 SCALE: 1:5000 JOB NO: E-397



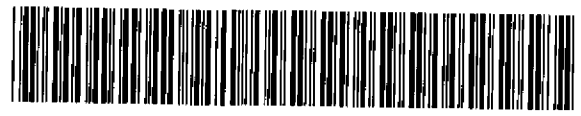
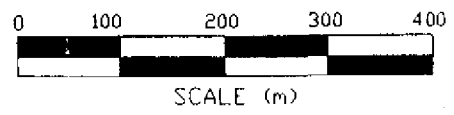


Z



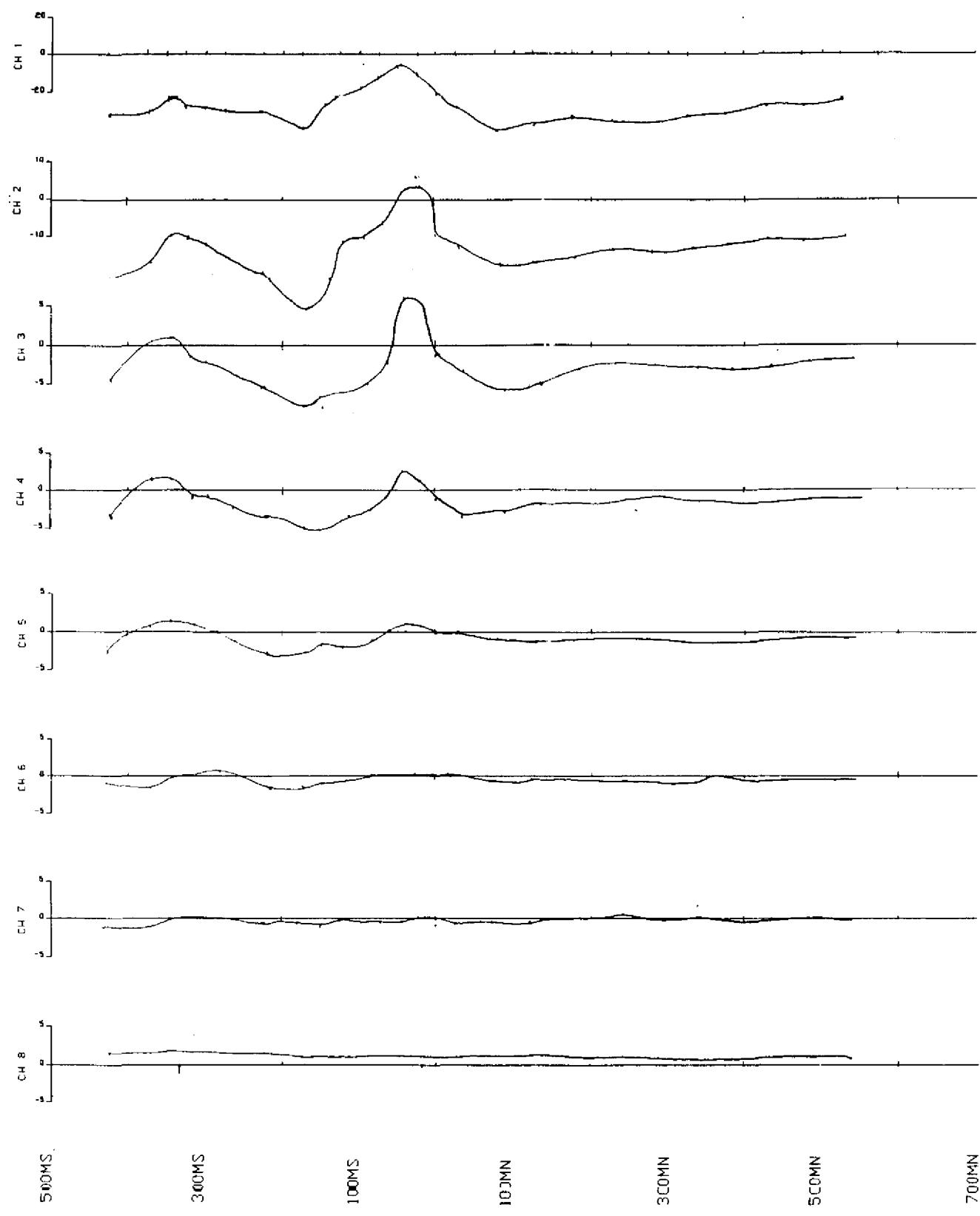
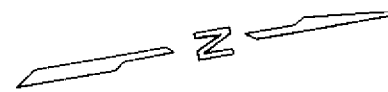
SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 480  
 COIL SEPARATION: 150m A B  
 DEPTH TO SOURCE: -87m -93m  
 CONDUCTIVITY: 6mho 5mho  
 WIDTH: 1/2mho  
 DIP: SOUTH

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



42A138W2001 2.20869 WILHELMINA 240

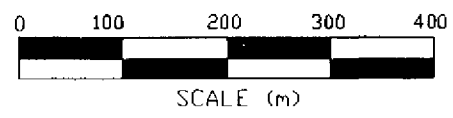
EXSICS EXPLORATION LTD  
 CLIENT: EXPLORER'S ALLIANCE INC.  
 PROPERTY: MANNING LAKE  
 LINE 800MW  
 TITLE: PEM MOVING COIL SURVEY  
 DATE: JAN. 2001 SCALE: 1:5000 JOB NO: E-397



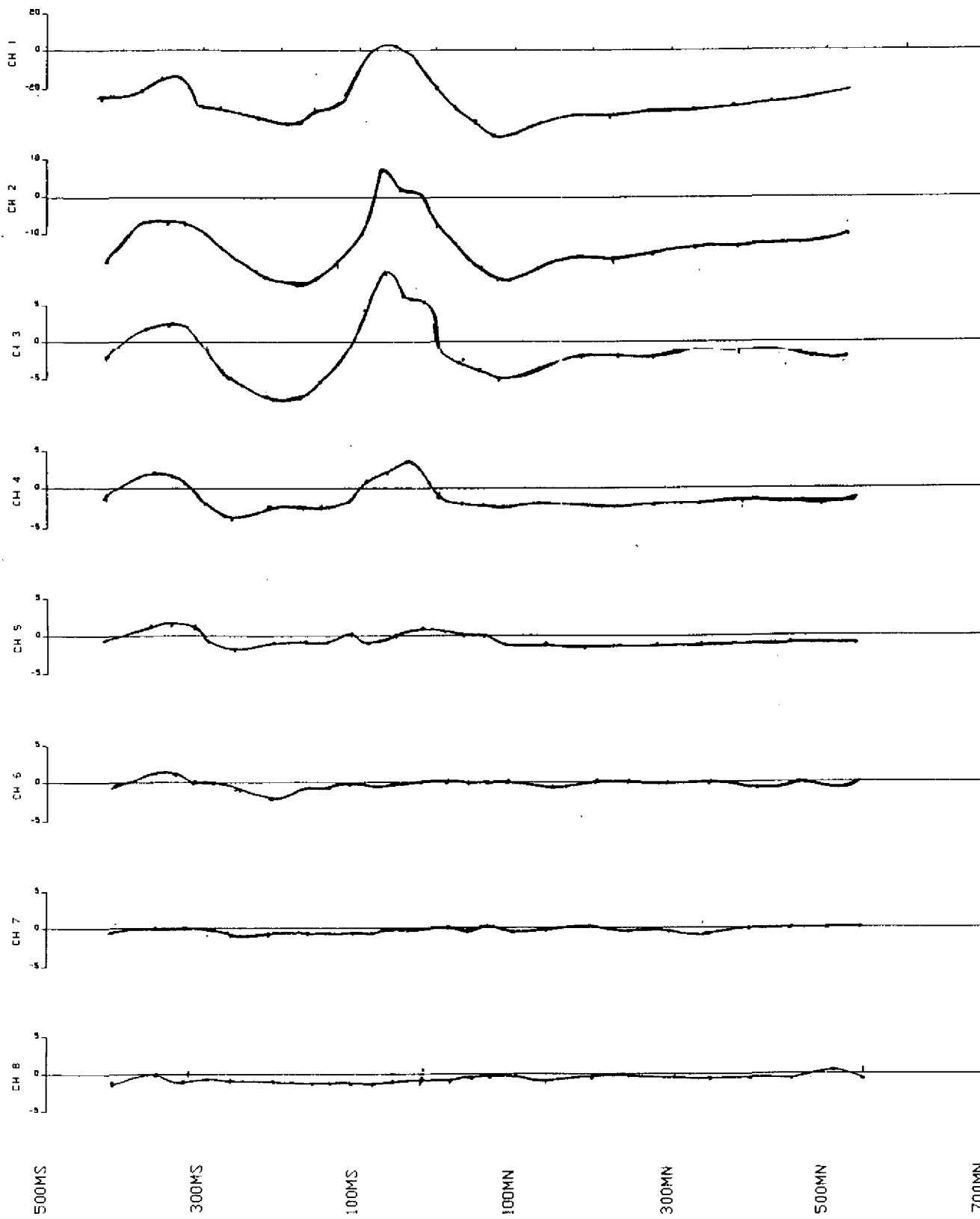
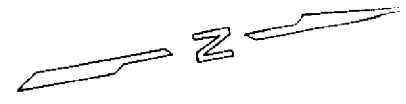
SYNCHRONIZATION: RADIO LINK  
PRIMARY PULSE: 480  
COIL SEPARATION: 150m <sup>A</sup>  
DEPTH TO SOURCE: -75-93m  
CONDUCTIVITY: 6-8 mhos  
WIDTH: Normal - narrow  
DIP: SOUTH  
DRILL HOLE CO-ORDINATES:  
ANGLE OF DRILL HOLE:  
APPROXIMATE DEPTH:



42A13SW2001 2.20869 WILHELMINA 250

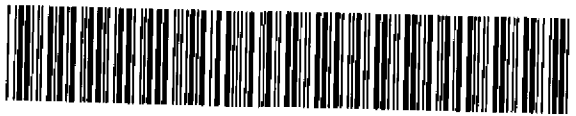
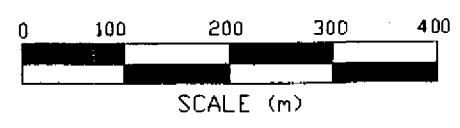


EXSICS EXPLORATION LTD  
CLIENT: EXPLORER'S ALLIANCE INC.  
PROPERTY: MANNING LAKE  
LINE 600MW  
TITLE: PEM MOVING COIL SURVEY  
DATE: JAN, 2001 SCALE: 1:5000 JOB NO: E-397



SYNCHRONIZATION: RADIO LINK  
PRIMARY PULSE: 480  
COIL SEPARATION: 150m  
DEPTH TO SOURCE: -70m  
CONDUCTIVITY: 6 mhos  
WIDTH: nominal  
DIP: South

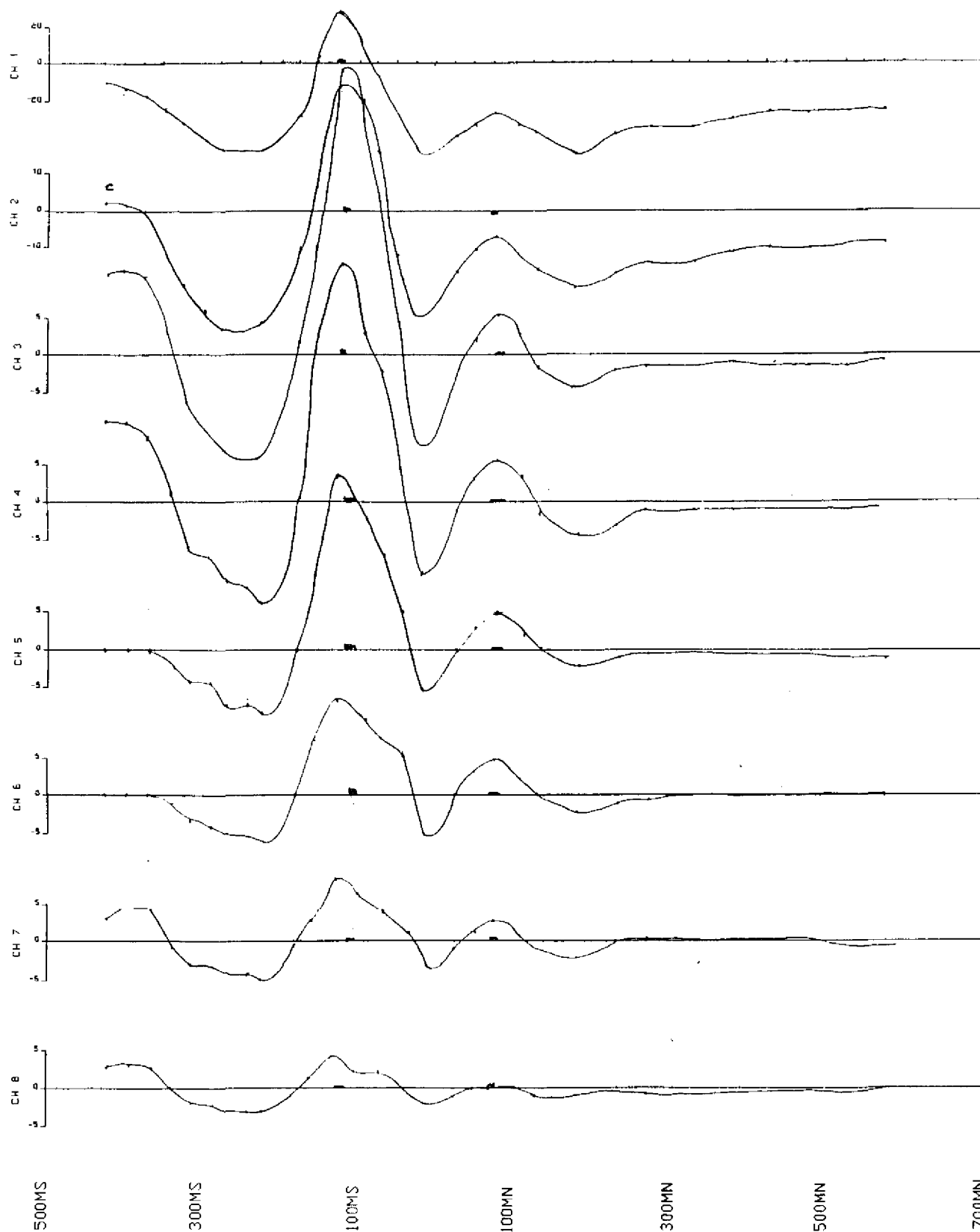
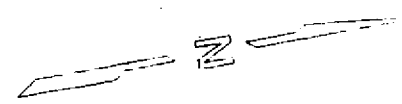
DRILL HOLE CO-ORDINATES:  
ANGLE OF DRILL HOLE:  
APPROXIMATE DEPTH:



42A13SW2001 2.20869 WILHELMINA 260

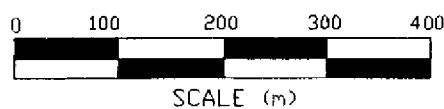
EXSICS EXPLORATION LTD

CLIENT: EXPLORER'S ALLIANCE INC.  
PROPERTY: MANNING LAKE  
LINE 400MW  
TITLE: PEM MOVING COIL SURVEY  
DATE: JAN., 2001 SCALE: 1:5000 JOB NO: E-397



SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 480  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE:      A      B  
                                  -82m -102-111  
 CONDUCTIVITY:      25Mho 10-26Mho  
 WIDTH:              Normal      Normal  
 DIP:                      South      South

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



EXSICS EXPLORATION LTD

CLIENT: EXPLORER'S ALLIANCE INC.

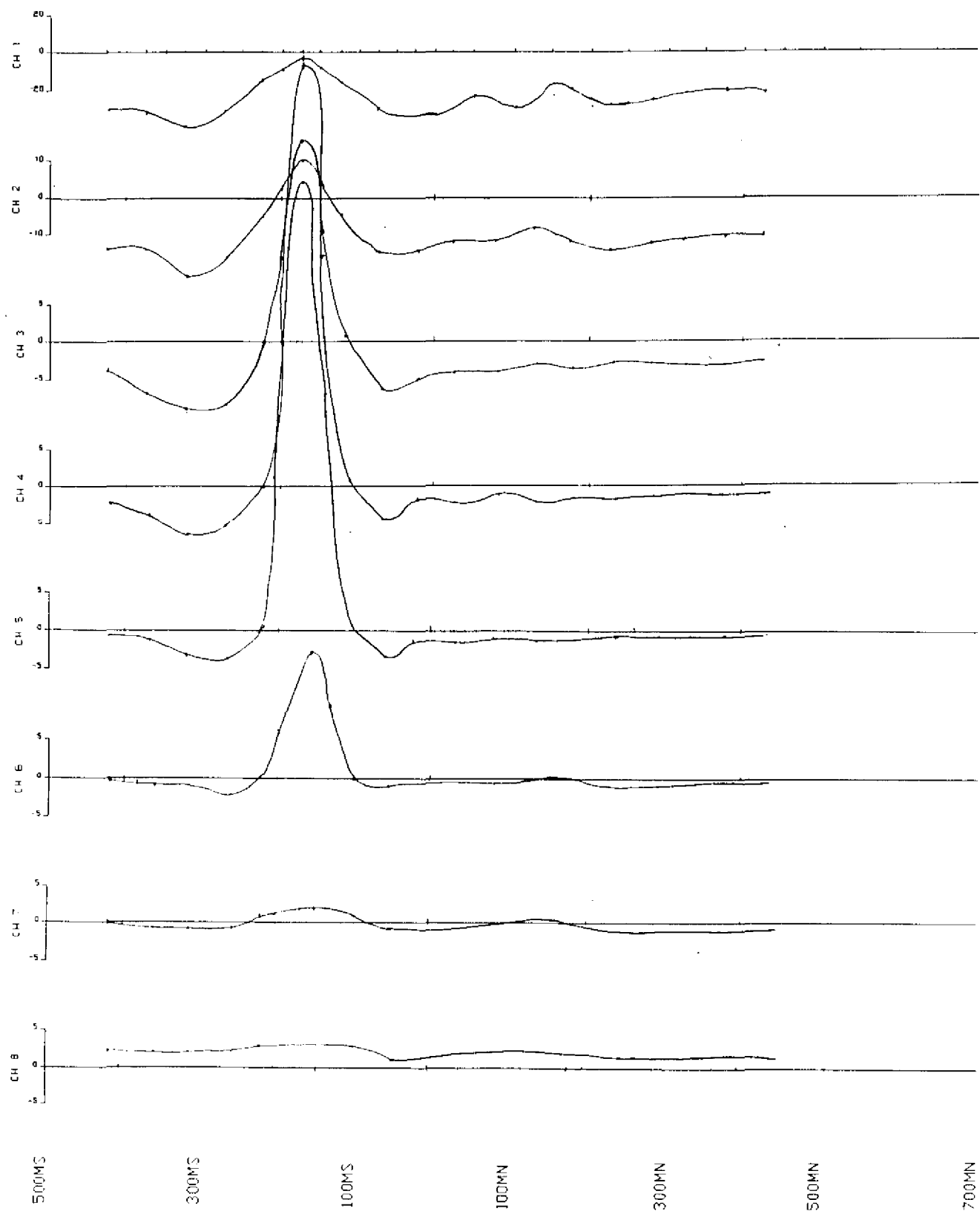
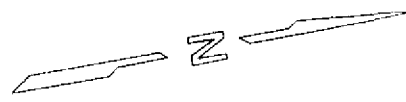
PROPERTY: MANNING LAKE

LINE 200MW

TITLE: PEM MOVING COIL SURVEY

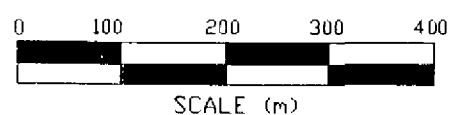
DATE: JAN, 2001 SCALE: 1:5000 JOB NO: E-397





SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 480  
 COIL SEPARATION: 150m A B  
 DEPTH TO SOURCE: -35m -52m  
 CONDUCTIVITY: 20mho 3mho  
 WIDTH: NARROW 1/400m  
 DIP: SOUTH ?

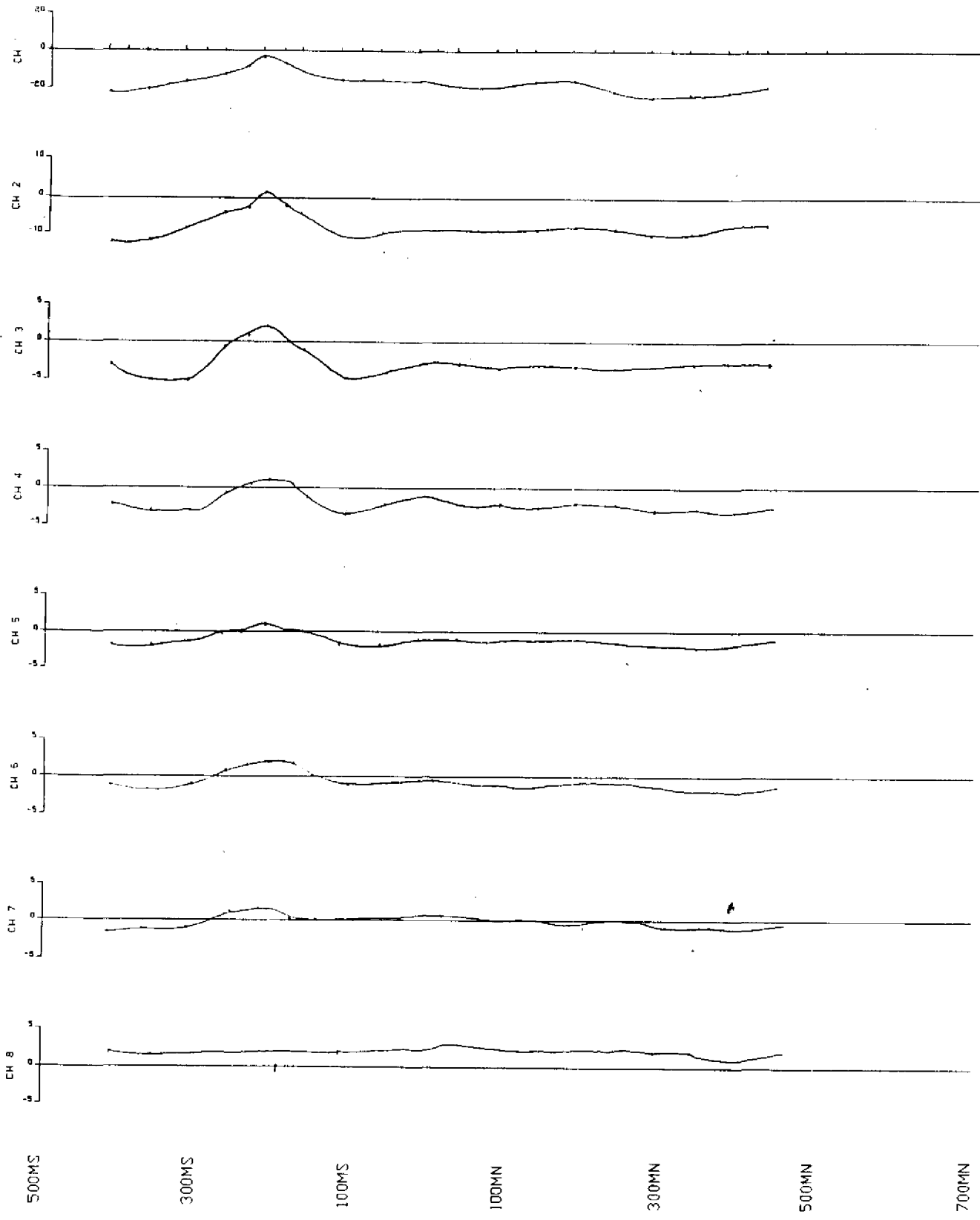
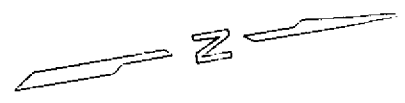
DRILL HOLE CO-ORDINATES:  
 ANGLE OF DRILL HOLE:  
 APPROXIMATE DEPTH:



EXSICS EXPLORATION LTD  
 CLIENT: EXPLORER'S ALLIANCE INC.  
 PROPERTY: MANNING LAKE  
 LINE 0+00  
 TITLE: PEM MOVING COIL SURVEY  
 DATE: JAN, 2001 SCALE: 1:5000 JOB NO: E-397



42A13SW2001 2.20869 WILHELMINA 280



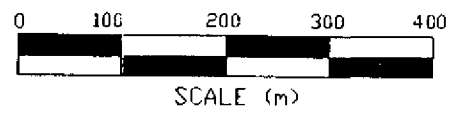
SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 480  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE: -97-112m  
 CONDUCTIVITY: 7-12 MKS  
 WIDTH: Normal  
 DIP: South

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

500MS      300MS      100MS      100MN      300MN      500MN      700MN



42A13SW2001      2.20869      WILHELMINA      290



EXSICS EXPLORATION LTD  
 CLIENT: EXPLORER'S ALLIANCE INC.  
 PROPERTY: MANNING LAKE  
 LINE: 200ME  
 TITLE: PEM MOVING COIL SURVEY  
 DATE: JAN, 2001      SCALE: 1:5000      JOB NO: E-397