

GEOPHYSICAL ASSESSMENT REPORT  
FOR  
**WESTERN KIDD RESOURCES INC**  
ON THE  
**LOVELAND-ROBB PROJECT**  
LOVELAND AND ROBB TOWNSHIPS  
PORCUPINE MINING DIVISION  
NORTHEASTERN, ONTARIO

2 - 31205



Prepared by: J. C. Grant,  
January, 2006



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## **INTRODUCTION:**

The services of Exsics Exploration Limited were retained by Mr. D. Meunier on behalf of the Company, Western Kidd Resources Inc., to complete a detailed total field magnetic survey across a portion of their claim holdings in Loveland Township, the Loveland and Robb Project, which is situated in the Porcupine Mining division in Northeastern Ontario.

The purpose of the program was to test the property for a geological setting that would be considered a favorable environment for mineral deposition as well as to locate any cross cutting dike like structures which would aid in the spotting of drill holes.

## **PROPERTY LOCATION AND ACCESS:**

The Property is situated approximately 30 kilometers northwest of the City of Timmins in the north central portion of Loveland Township. That portion of the property covered by the ground program lies to the immediate west and southwest of Enid Creek and is north of the Kamiskotia River and south of Footprint Lakes.

Access during the survey period was ideal. Current logging operations in the area of the property has kept the access road, locally called the Abitibi Road, open during the months of December and January thus providing drivable access to most of the eastern and northern sections of the main road grid. All of the grid lines from 9800MN to 12300MN cross this road. An 800 meters foot traverse is required to reach the grid lines from 8900MN to 9700MN from 3300ME to 2300ME.

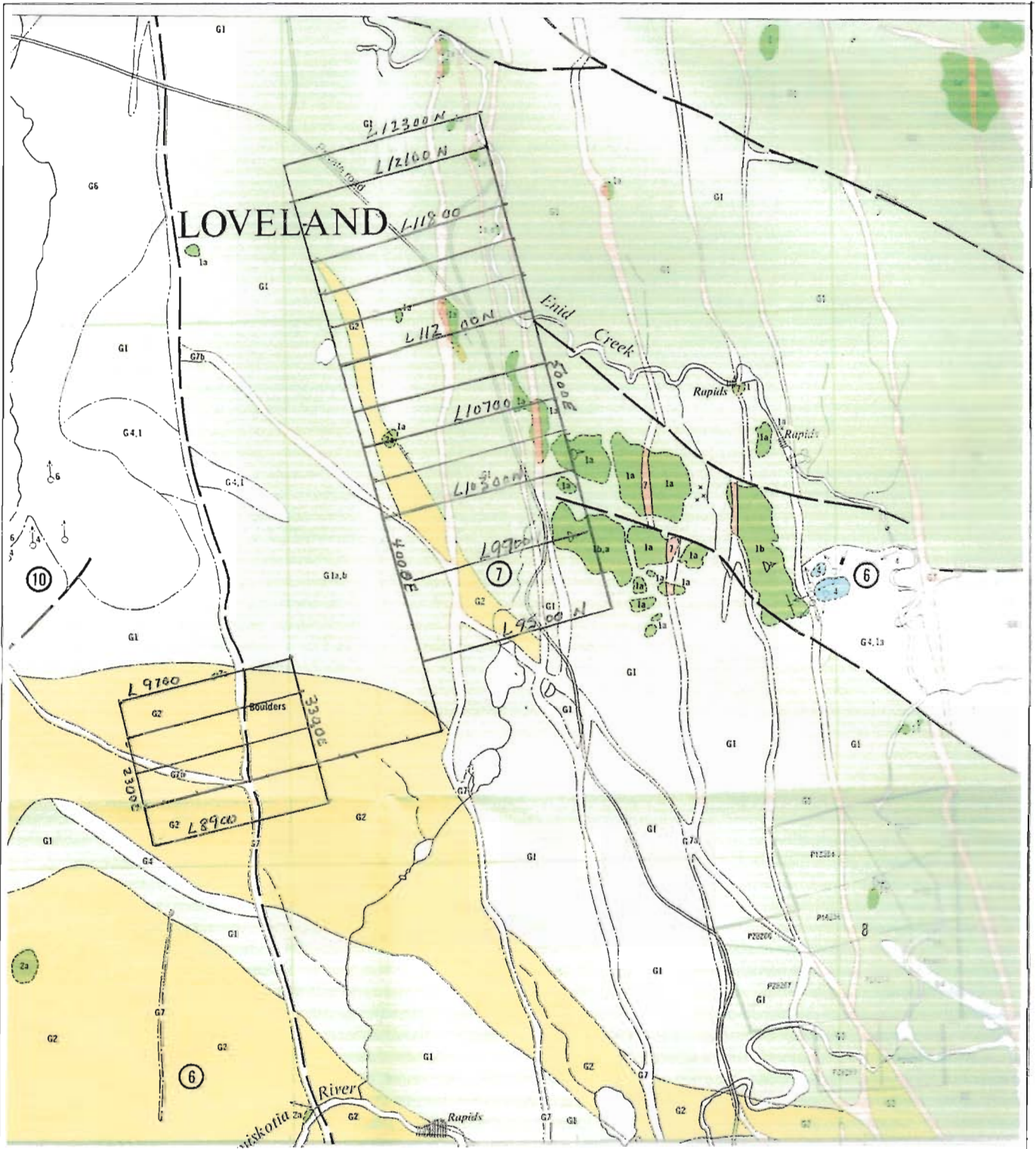
The Abitibi road runs north-northwest off of the Kamiskotia Highway which commences at the junction of Highway 101 west which is just to the west of the City of Timmins. Traveling time from Timmins to the grid is about 45 minutes. Refer to Figures 1 and 2.

## **CLAIM BLOCK:**

The claims that were covered by the ground program for each grid can be found on MNDM claim map M-0293, Loveland Township. Figure 3 is copied from the MNDM Plan map and is included in this report.

The claim numbers that were covered by the present ground program and represent a portion of the holdings of Western Kidd Resources Inc. are as follows.

P-1114503, P-1226321, P-3019619, P-1226263, P-1114508, P-1204598, P-1207692, P-1170975, P-1226323, P-1226327, P-3019592, P-3019593, P-1114982, P-1228727, P-3003006, P-3019594, P-3019590, P-3019589, P-1226324, P-1219030, P-1207474, P-1114408, P-1189412, P-3019618, P-1113135, P-1189411, P-1189410, P-1189414, P-1189457, P-1114443,



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

**CLIENT: WESTERN KIDD RESOURCES INC.**

**PROPERTY: LOVELAND-ROBB PROJECT**

**TITLE: GEOLOGY MAP**

**LOVELAND TOWNSHIP, MAP 2288**

**Fig. 2**

**Date: JAN./06**

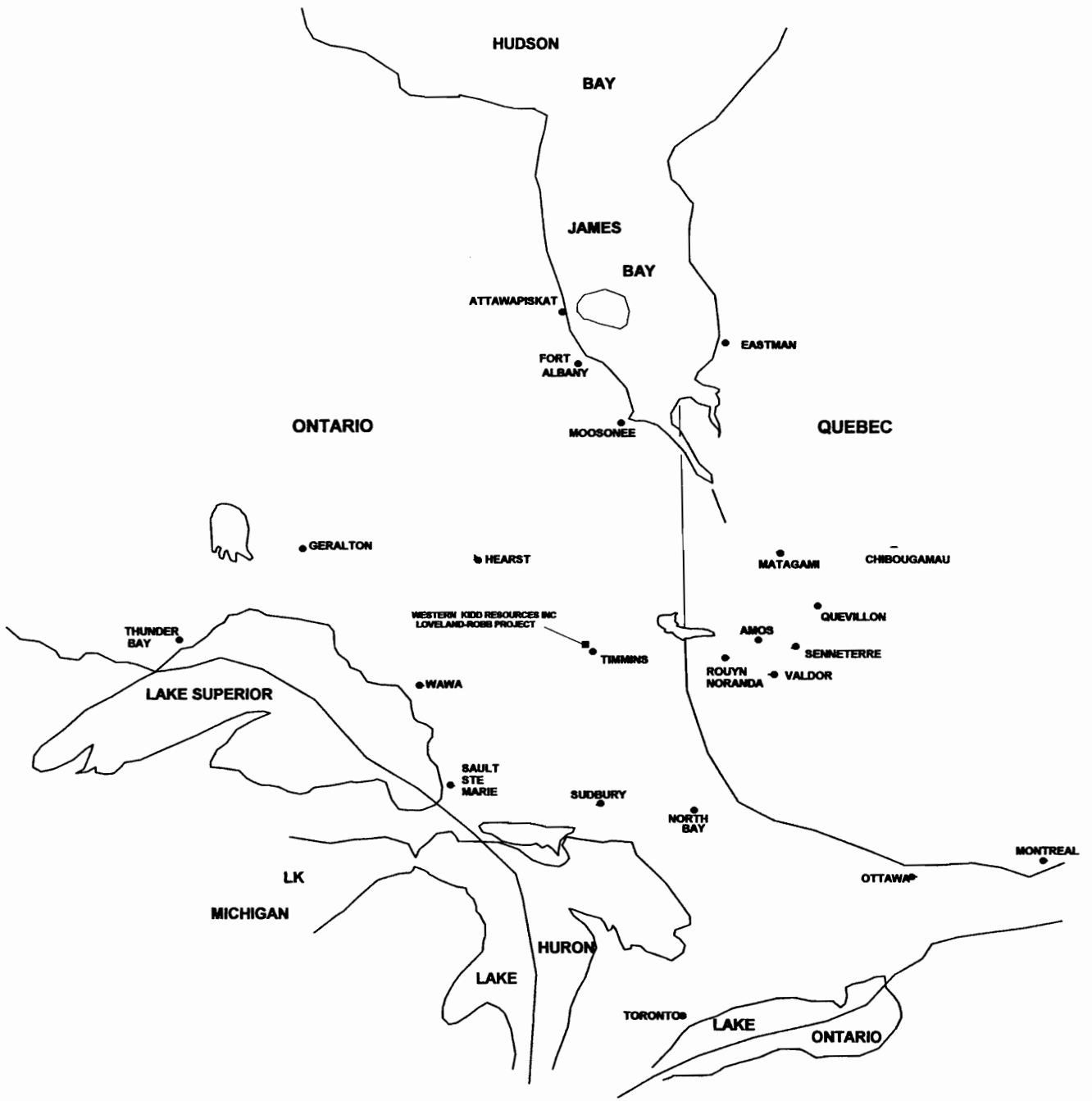
**Scale: 1"=1/2mile**


**NTS:**

**Drawn: J.C. Grant**

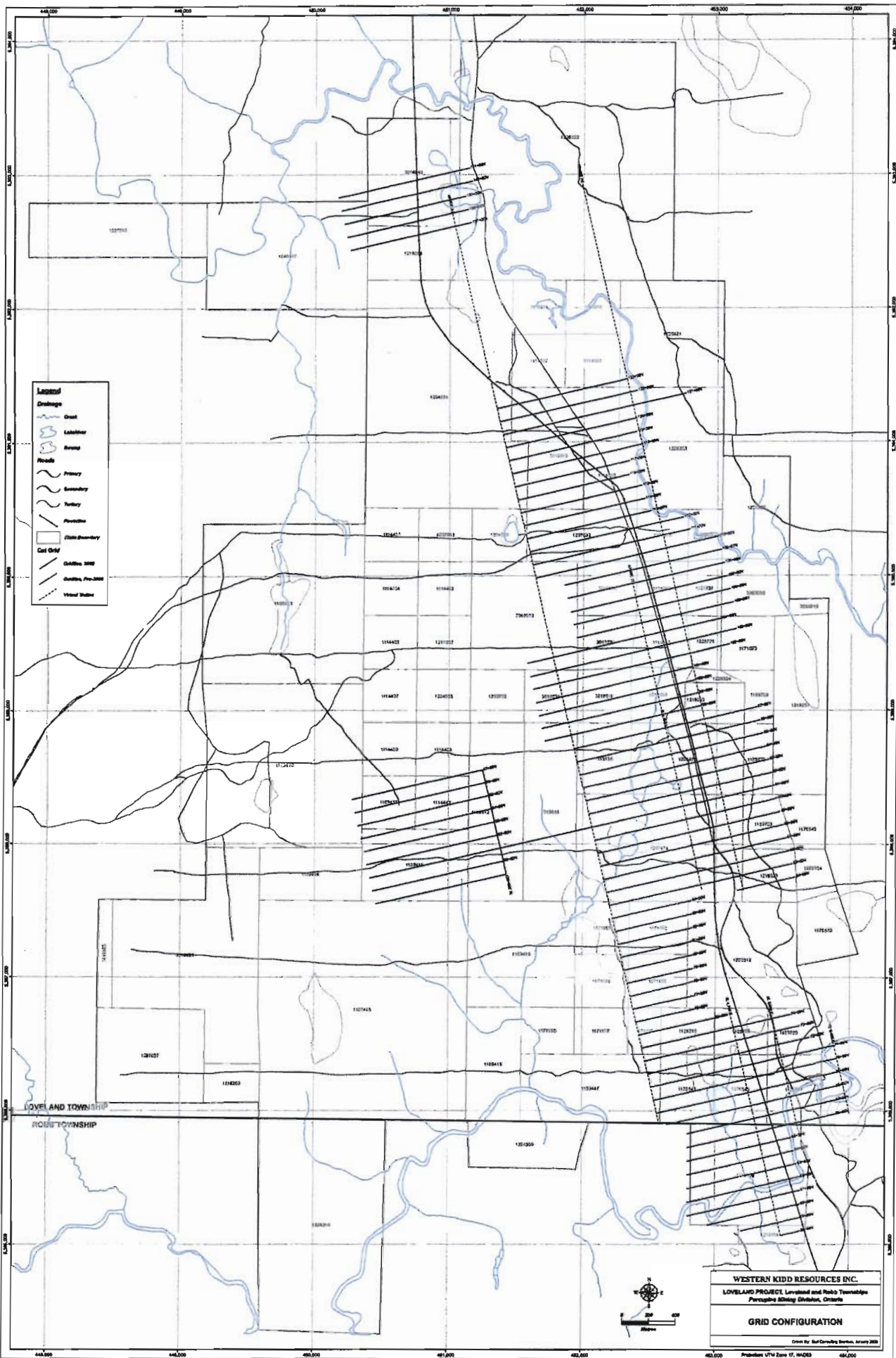
**Interp: J.C. Grant**

**Job No.: E-508**



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	<b>CLIENT: WESTERN KIDD RESOURCES INC.</b>		
	<b>PROPERTY: LOVELAND-ROBB PROJECT</b>		
	<b>TITLE: PROPERTY LOCATION MAP</b>		
<b>Fig. 1</b>			
<b>Date: JAN./06</b>	<b>Scale: 1"=125 miles</b>	<b>NTS:</b>	
<b>Drawn: J.C. Grant</b>	<b>Interp: J.C. Grant</b>	<b>Job No.: E-508</b>	





- Legend**
- Drainage
  - Creek
  - Lake/river
  - Pond
  - Primary
  - Secondary
  - Turbine
  - Fence/line
  - Grid Boundary
  - Cell Grid
  - Gridline 2000
  - Gridline Pre-2000
  - Visual Buffer

WESTERN KIDD RESOURCES INC.  
 LOVELAND PROJECT Loveland and Roby Townships  
 Porcupine Mining Division, Ontario

**GRID CONFIGURATION**

Drawn by: Matt Corbridge/Donna, January 2008  
 Prepared: UTM Zone 17, NAD83

**PERSONNEL:**

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

E. Jaakkola.....Timmins, Ontario

R. Bradshaw.....Timmins, Ontario

The plotting and interpretation as well as the report was completed by J. C. Grant of Exsics Exploration Limited.

**GROUND PROGRAM:**

The ground program was completed in two phases. The first phase was completed by G. Fournier Exploration and consisted of the cutting of a detailed metric grid across the claim block.

This grid consisted of 100 meter spaced lines that were turned off of a baseline that was cut at an azimuth of 345 from Line 9100MN to and including 12300MN. These cross lines were then cut from 3900ME and or 4000ME to and including 5000ME and or 5400ME. Lines between 10900MN and 12300MN all stopped at Enid Creek. The isolated grid between lines 8900MN and 9700MN were all cut from 3300ME to and including 2300ME. All of the cross lines and base line were chained with 25 meter pickets that have been metal tagged. In all, a total of 39.25 kilometers of grid lines were cut across the property during this phase of the program.

The second portion of the program was completed by Exsics Exploration Limited and consisted of a detailed total field magnetic survey that was completed over all of the cross lines. This was done using the Scintrex Envi Mag system and specifications for this unit can be found as Appendix A of this report.

The following parameters were kept constant throughout the both surveys.

**Magnetic Survey:**

Line spacing.....	100 meters
Station spacing.....	25 meters
Reading intervals.....	12.5 meters
Diurnal monitor.....	base station
Base record intervals	30 seconds
Reference field.....	57,500 gammas
Datum subtracted.....	56,500 gammas
Unit accuracy.....	+/- 0.1 gamma

Once the survey was completed the field data was corrected and then plotted directly onto a base map at a scale of 1:5000. A datum level of 56,500 gammas was removed from the data before it was plotted onto the base map. The data was then contoured at 25 gamma intervals wherever possible. A copy of this color base map is included in the back pocket of this report.

This program was completed between December 16<sup>th</sup> and 23<sup>rd</sup>, 2005.

**GENERAL PROPERTY GEOLOGY:**

Generally, the property is underlain by mafic to intermediate metavolcanics that have been cross cut by a band of felsic volcanics that generally strike north to northwest across the western section of the main grid. These units in turn have then been cross cut by a series of north to northwest striking diabase dikes. There are also several areas along the eastern and central section of the grid that have outcrop exposures of massive porphyritic lavas. There are two fault structures striking into the extreme east and southeast sections of the grid that have offset and faulted the diabase dike swarm just to the east and south of the current grid. These faults strike northwest to southeast and lie along the north and south boundaries of a wide intrusive which is situated about 800 meters southeast of the grid area.

A major fault controlled dike is situated about 800 meters west of the main grid and is evident in the isolated grid cutting across line 8900MN to 9700MN at 3100ME. This grid is generally underlain by the felsic metavolcanics that have been cross cut by a north-south dike and a northwest striking dike. A thin band of ultramafic intrusive rocks sits just to the southwest of the grid. Refer to Figure 2, copied from Plan Map 2288, Loveland Township.

**MAGNETIC SURVEY RESULTS:**

The magnetic survey was successful in mapping the geological characteristics of the grid. The most predominant features are the strong, narrow magnetic high trends that relate directly to the diabase dikes. The difference in the intensity of the magnetic signatures could be due to undulating overburden depths and/or varying rock compositions of the dikes. The magnetic lows associated with the dikes are related to dipole effects.

A fault may be evident striking into the grid from the east between lines 10100MN and 10200MN at 5000ME. This is evident in the narrow low pushing into the dike at 10200MN at 4950ME.

The slight increase in the magnetic background from 57020 gammas to 57040 gammas may be indicative of the underlying felsic unit along the western edge of the grid.

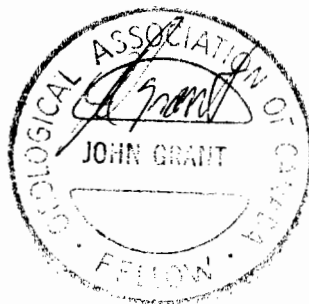
The magnetic high building on the western tips of lines 9100MN, 9000MN and 8900MN may relate to the ultramafic intrusive just off of the grid to the southwest.

The series of magnetic high bulls-eye like responses noted across lines 9200MN, 9300MN and 9400MN along with the high across 9400MN to 9600MN may relate to a dike at depth.

A follow-up program of geological surveys coupled with an MMI survey should be considered to enhance the property's potential.

Respectfully submitted

J.C. Grant, CET, FGAC  
January, 2006.





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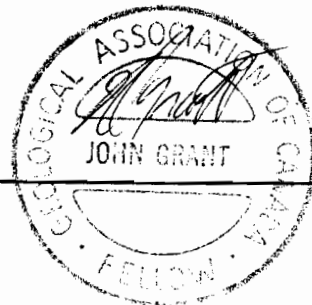
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CERTIFICATION

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

# 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 a 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 objects are the object of the survey.

#### Selectable Sampling Rates

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

#### Main features include:

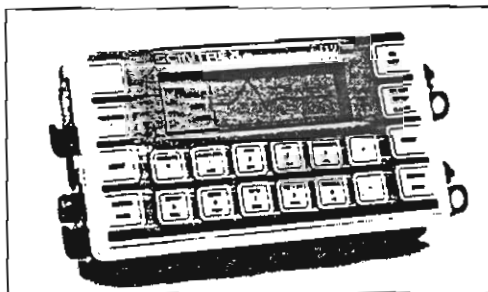
- select sampling rates as fast as 2 times per second
- "WALKMAG" mode for rapid acquisition of data
- large internal, expandable memory
- easy to read, large LCD screen displays data both numerically and graphically
- ENVIMAP software for processing and mapping data

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.

#### 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.



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.

#### 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

± 1 nT at 2 second sampling rate

### Operating

Fully solid state. Manual or automatic, keyboard selectable

### Sampling (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

### "ALKMAG" Mode

1 second for walking surveys, variable rates for hilly terrain

### Total Display

(1) "Super Twist", 240 x 64 dots graphics, 8 lines x 40 characters alphanumeric

### Display Heater

Electronically controlled, for cold weather operations

### Keyboard Input

Alphanumeric, dual function, membrane type

### Keypad Function

24 characters, 5 user-defined MACRO's for data 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

### 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)



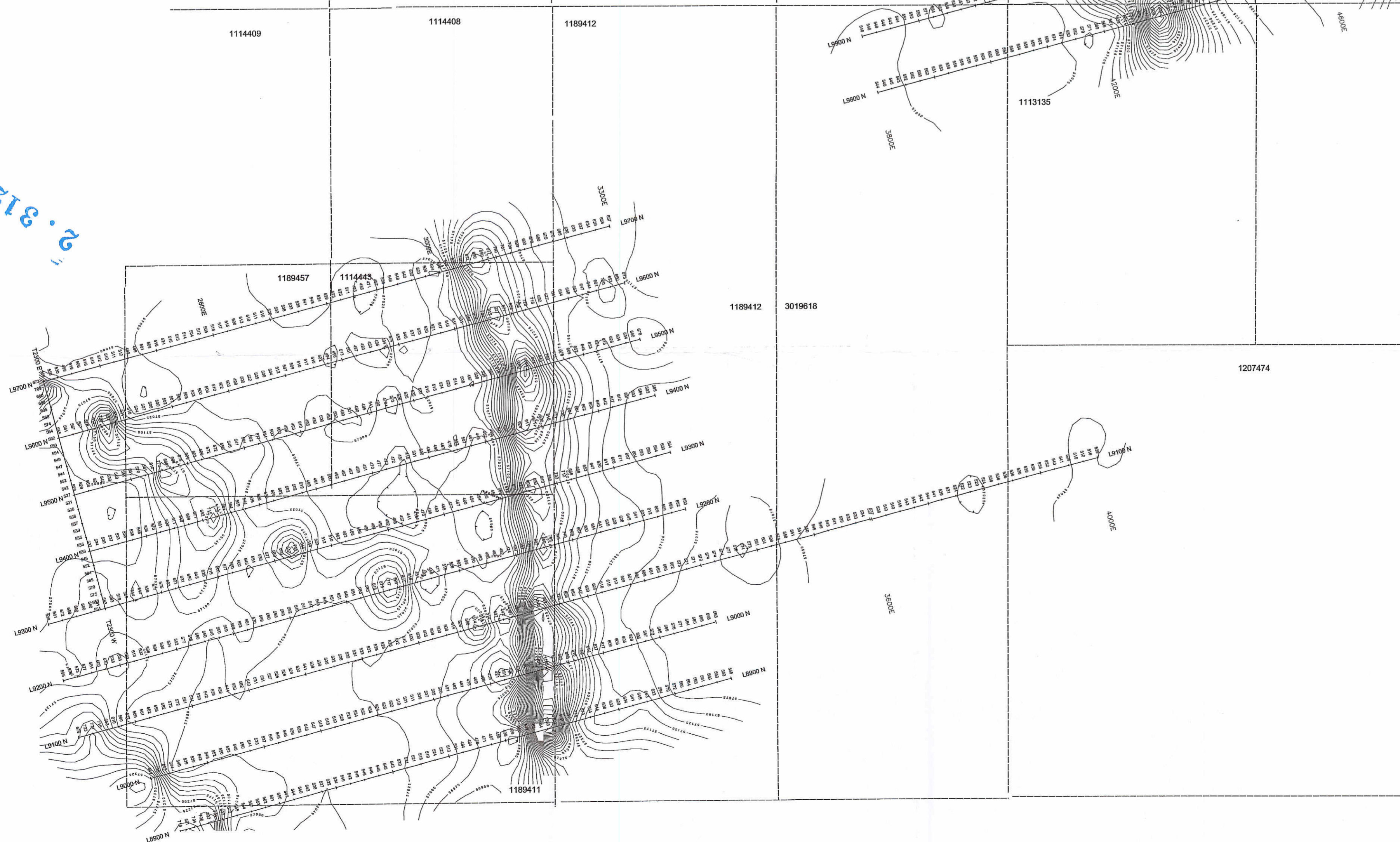
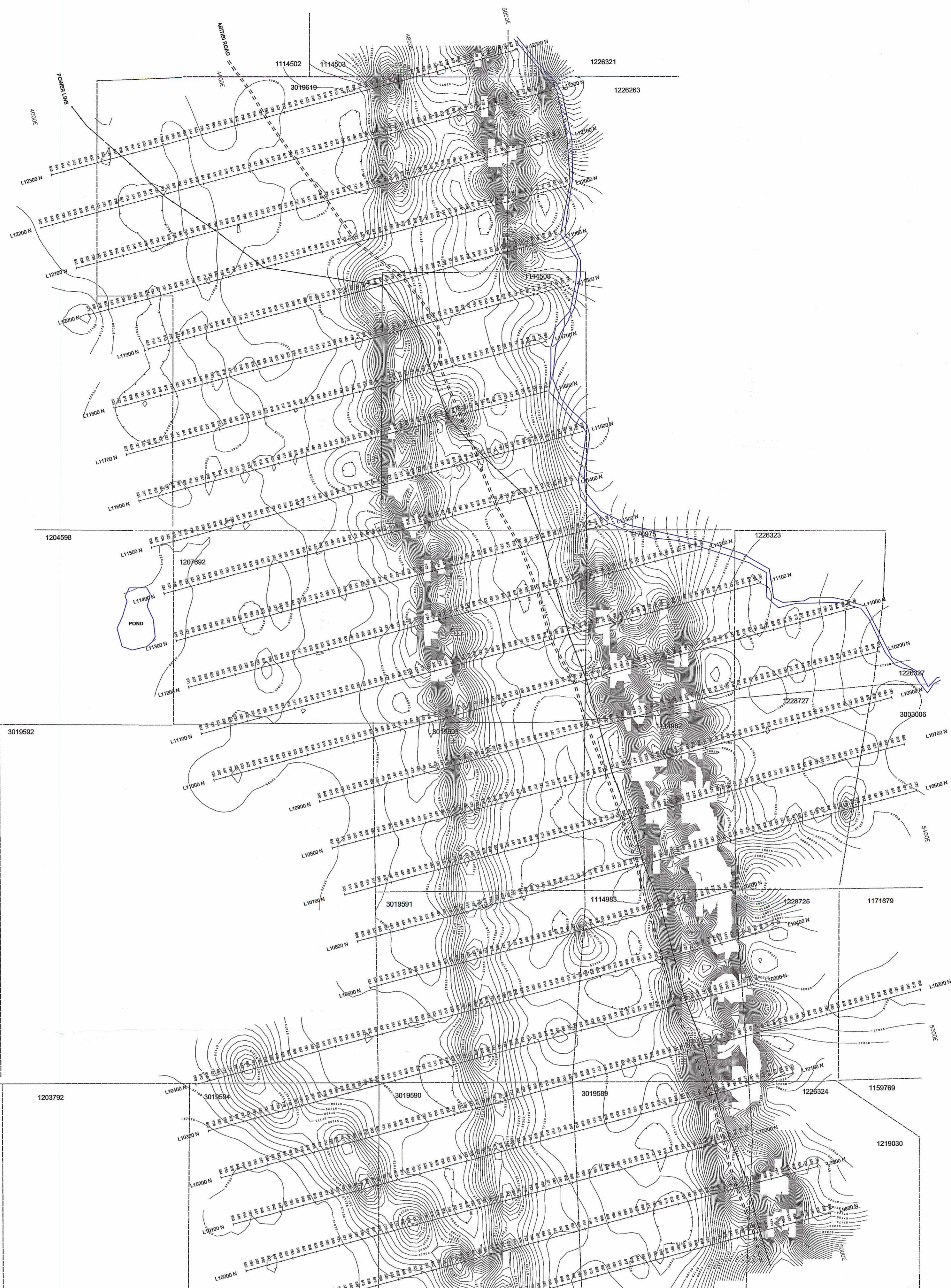
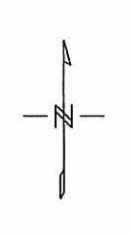
### Head Office

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Buffalo, NY 14207





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