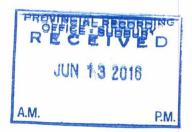
GEOPHYSICAL REPORT FOR EXPLOR RESOURCES INC.

ON THE

KIDD CLAIM GROUP PROJECT CLAIMS 4227651, 4274980, 4274982,4274984,04274893

KIDD TOWNSHIP PORCUPINE MINING DIVISION NORTHEASTERN, ONTARIO

2.56916



Prepared by: J. C. Grant, May 2016

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# **INTRODUCTION:**

The services of Exsics Exploration Limited were retained by Mr. Chris Dupont on behalf of the company, Explor Resources Inc., to complete a ground geophysical program across several claim blocks located in the north central and south central sections of Kidd Township of the Porcupine Mining Division in Northeastern Ontario.

The purpose of the program was to locate and outline and favorable horizon that would be considered a good geological environment for base metal deposition.

# **PROPERTY LOCATION AND ACCESS:**

The north 4 claim group is located in the north central part of Kidd Township to the northwest of the Kidd Creek mine site and the Chance zinc, lead silver deposit. The Property is part of Explor's claim holdings in Kidd Township that surrounds the mine operations that are ongoing in the area. The north claim unit represents the north half of Lot 7, Concession 6 of the Township. The southern 8 claim block is situated in the central south section of Kidd Township to the southwest of the Kidd Creek mine. More specifically it represents the northern half of Lots 6 and 7, Concession 1 of the Township. The most obvious topographical feature in the area is the Kidd Creek open pit approximately 2.6 km to the southeast of the northern claim block as well as a series of sand eskers and swamps. The property is located in a greenstone belt composed mainly of sequences of meta-volcanic rocks cut by faults and deformation zones that lie in a northwest to southeast direction. Also there are many suites of mafic volcanic rocks.

Access to the northern property is somewhat involved. During the survey period the block was accessed by skidoos from an old road/trail system that ran west off of Highway 655 just to the north of Boundary lake. This series of old roads runs west to south then slightly northwest for approximately 6.3 kilometers from Highway 655 to the eastern boundary of the claim block.

The southern block was accessed by a bush road that was cut out by a drilling company about 3 years ago that provided skidoo access from highway 655 that runs west just across from Feldman Lake to the central north section of the southern claim group. The grid is about 5.2 kilometers west of the Highway.

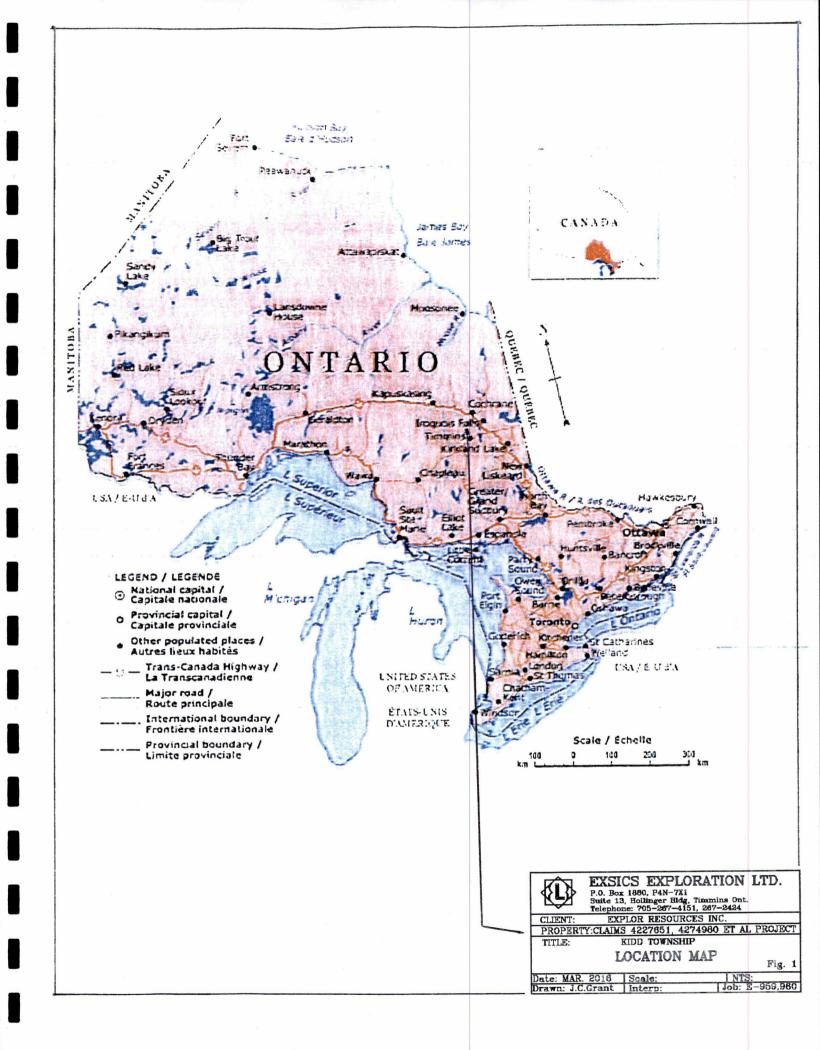
Traveling time from Timmins to the grids is about 80 to 120 minutes. Refer to Figures 1 and 2.

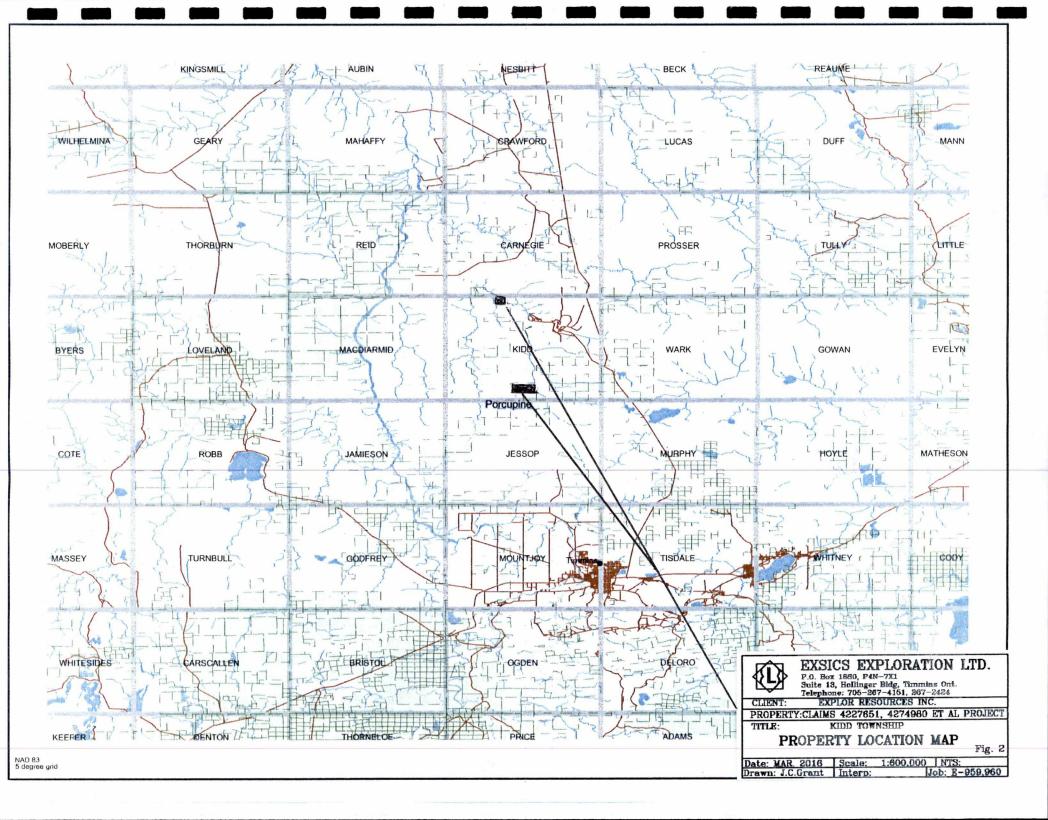
## **CLAIM BLOCK:**

The claim numbers that represent them Kidd north and south Blocks are listed below. North Group:

4274980, 4274982, 4274984, 04274893

This block of claims represent the north half of Lot 7, Concession 6 of Kidd Township. Refer to Figure 3 copied from MNDM Plan Map of Kidd Township for the positioning of the claim numbers within the Township. The grid covers the entire claim block.





The claim that represents the 8 units of this block is 4227651 and it represents the northern half of Lots 6 and 7 Concession 1 of the township.

Refer to figure 3 and 3a for the positioning of the claims within the Township.

# PERSONNEL:

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

R. Bradshaw

Timmins, Ontario

J. Francoeur

Timmins, Ontario

D. Belair

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 consisted of establishing a detailed metric grid across the 4 northern claims using compass paced and GPS controlled lines that were spaced 100 meters apart and flagged with 25 meter station intervals. These lines were controlled by a base line that was first flagged along the eastern edge of the claim group commencing at the northeast claims commencing at the number 1 post of claim 4274982 at an azimuth of 180 degrees. The base line was done from 0+00 to 700MS and then a tie line labeled 800MW was used to control the western edges of the grid lines and generally followed the western edge of the claim group.

The second portion of the program consisted of a detailed total field magnetic survey that was done in conjunction with a VLF-EM over the entire grid using the Scintrex Envi Mag system. Specifications for this unit can be found as Appendix A of this report.

In all, a total of 8.8 kilometers of grid lines were established across the claim and 7.2 kilometers were surveyed across the claim block between February 4<sup>th</sup> and March 15<sup>th</sup> 2016.

The southern grid was covered by a VLF-EM survey only as the magnetic survey had been completed earlier. The historical grid that had been cut originally across the block was reflagged and then covered by the VLF survey. The original base line was also reflagged along with tie line 600Mn to control the cross lines. This original grid was read from 900MN to 300MS at 25 meter intervals also using the Scintrex Envi mag system. Specifications for this unit can be found as Appendix A of this report.

In all, a total of 13.4 kilometers of grid lines were established across the claim and 12.6 kilometers were surveyed across the claim block between February 4<sup>th</sup> and March 15<sup>th</sup> 2016

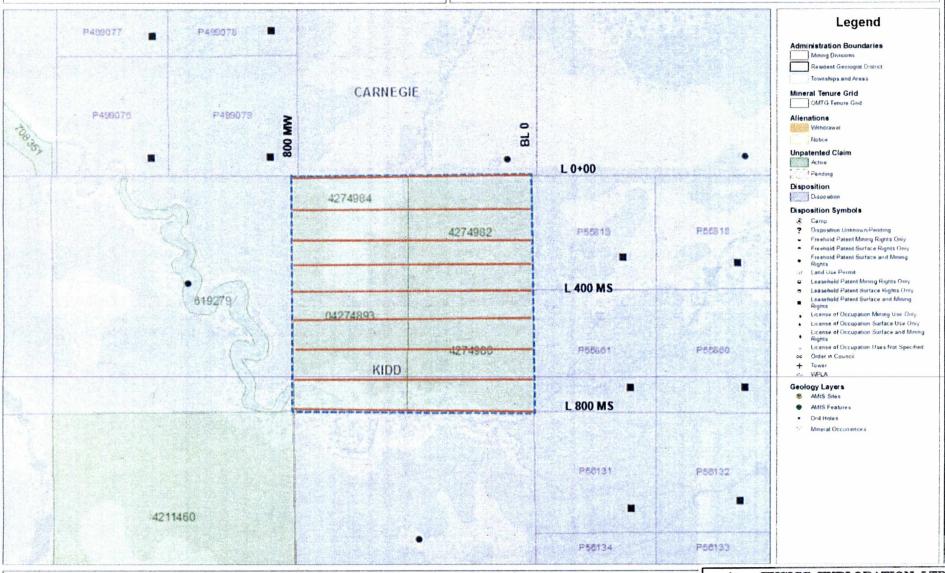
The following parameters were kept constant throughout the magnetic surveys.

Ontario

# MINISTRY OF NORTHERN DEVELOPMENT AND MINES

# CLAIM 4274984 GROUP, GRID

Notes: Enter map notes



0.6<sub>km</sub>

The Ontario Ministry of Northern Development and Mines shall not be liable in any way for the use of, or reliance upon, this map or any information on this map. This map should not be used for; navigation, a plan of survey, routes, nor locations.

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# EXSICS EXPLORATION LTD.

P.O. Hox 1860, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424

T: EXPLOR RESOURCES INC.

PROPERTY:CLAIMS 4227651, 4274980 ET AL PROJECT

TITLE: KIDD TOWNSHIP

CLAIM MAP/ GRID MAP

Fig. 3

Date: MAR. 2016 | Scale: 1:60,000 | NTS: Drawn: J.C.Grant | Interp: | Job: E-959,960

Notes: CLAIM 4227651 GROUP, GRID Ontario MINISTRY OF NORTHERN DEVELOPMENT AND MINES Enter map notes MAP Legend Administration Boundaries Mining Divisions Resident Geologist District Townships and Areas Mineral Tenure Grid OMTG Tenure Grid Allenations Vithdrawal Notice **Unpatented Claim** Active 1 Pending Disposition Disposition Disposition Symbols Camp ? Disposition Unknown/Pending Freehold Patent Mining Rights Only Freehold Patent Surface Rights Only Freehold Patent Surface and Mining Rights Lif Land Use Permit KUDD □ Leasehold Patent Mining Rights Only # Leasehold Patent Surface Rights Only Leasehold Patent Surface and Mining Rights License of Occupation Mining Use Only License of Occupation Surface Use Only License of Occupation Surface and Mining Rights License of Occupation Uses Not Specified on Order in Council + Tower WPLA **Geology Layers** MAIS Sites AMS Features Drif Holes Mineral Occurrences 4265537 EXSICS EXPLORATION LTD. P.O. Box 1860, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424 0.6 km Projection: Web Mercator CLIENT: EXPLOR RESOURCES INC.
PROPERTY CLAIMS 4227651, 4274960 ET AL PROJECT Imagery Copyright Notices: Ontario Ministry of Natural Resources and Forestry The Ontario Ministry of Northern Development and Mines shall not be liable in any way KIDD TOWNSHIP TITLE: Program; First Base Solutions Inc.; Aéro-Photo (1961) Inc.; DigitalGlobe Inc.; U for the use of, or reliance upon, this map or any information on this map. This map GEOLOGY MAP should not be used for: navigation, a plan of survey, routes, nor locations. FIG. 3 © Copyright for Ontario Parcel data is held by Queen's Printer for Ontario and O Queen's Printer for Ontario, 2016 | NTS: | 4 | Job: E-959,960 Date: MAR. 2016 | Scale: 1:60.000 not be reproduced without permission.

Drawn: J.C.Grant | Interp:

# Magnetic Survey:

100 meters Line spacing..... Station spacing..... 25 meters Reading intervals..... 25 meters Diurnal monitor..... base station Base record intervals 30 seconds Reference field..... 56,500 gammas Datum subtracted..... 55,500 gammas Unit accuracy..... +/-0.1 gamma

Once the northern survey was completed, the field data was plotted directly onto a base map at a scale of 1:5000. A datum level of 55500 gammas was removed from the data before it was plotted onto the base map. The data was then contoured at 20 gamma intervals wherever possible. A copy of the northern block color base map is included in the back pocket of this report.

# **VLF-EM Survey:**

Line spacing Station spacing	100 meters 25 meters
Reading intervals	25 meters
Transmitting station	Cutler, Maine
Transmitting frequency	24.0Khz
Parameters measured	In-phase and quadrature component
	of the secondary field
Transmitter direction:	Azimuth 115 degrees
Parameters plotted	In-phase value.
Parameters plotted	In-phase value.

Once the survey coverage on both claim blocks was completed, the field data was plotted directly onto a base map at a scale of 1:5000 and then profiled at 1cm= +/- 10 percent. Any and all conductor axis were then placed onto this base map. A copy of these color profiled maps are included in the back pocket of this report.

# **MAGNETIC and VLF-EM SURVEY RESULTS:**

# **NORTHERN BLOCK:**

The magnetic survey outlined two magnetic highs across the grid area. The first is a broad magnetic high zone that appears to cover most of the southeast section of the grid and may be striking into the grid from the south. There is a modest to weak VLF spot zone associated with the southwest edge of the high but there does not appear to be any definite strike direction outlined. There is another broad magnetic high that covers most of the western ends of lines

0+00 to 350MS and it appears to continue off of the grid to the west. There is a very weak VLF zone associated with the northeast edge of the high and it continues off of the rid to the north.

The two weak VLF zones striking across lines 300MS and 400MS at 400MW and across lines 100MS to 200MS at 350MW may correlate to the creek.

# **SOUTHERN CLAIM BLOCK:**

The VLF survey did outline several conductive zones across the grid area. The zone striking across lines 800MN to 900Mn appears to continue off of the grid to the northwest and lies across the historical magnetic high that covers most of the grid from 900MN to 500MN. A second longer but parallel zone strikes from 800MN to 500MN and lies between 125MW and the base line. Again the zone cuts across the magnetic high.

The remainder of the grid area is quiet with several weak questionable VLF zones noted across lines 0+00 to 200MS north of the baseline.

# **CONCLUSIONS AND RECOMMENDATIONS:**

The ground magnetics on the northern block and the historical magnetic results of the southern block would suggest that there may intrusives cross cutting the bedrock geology of both of these claim blocks. The VLF EM survey did not generally enhance either of the claim blocks due to the fact that both grids are probably covered by a thick layer of conductive overburden.

A follow up IP survey or possibly a soil sampling program should be considered across both of the claim blocks to better define the magnetic units and to search both grids at depth.

Respectfully submitted

J. C. Grant May 2016.

# 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 a 3 year Honors Diploma in Geological and Geophysical Technology.
- 2). I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years, 1975 to 1980), and currently as Exploration Manager and Chief Geophysicist for Exsics Exploration Limited, since May, 1980.
- 3). I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984.
- 4). I am in good standing as 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> day of May, 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 nor do I expect to receive any such interest in the herein described property. I have been retained by the property holders and or their Agents as a Geological and Geophysical Consultant and Contract Manager.

WOUST

John Charles Grant, CET., FGAC.

APPENDIX A



Amazing detail and color meet

high-sensitivity GPS performance in

# Waterproof navigation with a splash of color

the GPSMAP 76Cx and 76CSx.

These mariner-friendly handhelds are

WAAS-enabled, waterproof, and they'll

even float if dropped overboard

They're set to go the distance on land

or sea thanks to a long battery life

and 128 megabytes of microSD

card memory for loading optional

MapSource\* detail: BlueChart\*,

City Navigator", TOPO, and more.

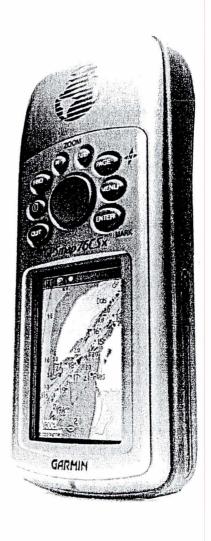
The 76CSx adds electronic compass and

barometric altimeter for extremely

accurate heading and elevation readings

Automatic pressure trend recording even

lets you can keep an eye on the weather.





# GPSMAP® 76Cx and 76CSx



Electronic compass feature

Barometric altimeter feature

(GPSMAP 76CSx only)

(GPSMAP 76CSx only)

Elevation computer:

Accuracy:

Resolution:

Accuracy:

Resolution:

Range:

Pressure:

Power

Source:

Battery life:

**Physical** 

Weight:

Display:

Size

Uploadable maps: (GPSMAP 76Cx & 76CSx)



optional)

1 degree

1 foot



Accepts up to 1 GB (gigabyte) microSD

data card for downloaded map detail

from a variety of optional MapSource's

media (extra microSD data cards

±2 degrees with proper calibration

10 feet with proper calibration

(user and/or automatic calibration)

Current elevation, resettable minimum

rate, total ascent/descent, average and maximum ascent/descent rate

and maximum elevation, ascent/descent

Local pressure (mbar/inches HG), 48-hour

automatic pressure trend recording

Up to 16 hours; 10 hours typical

and southern latitudes

-2.000 to 30,000 feet

Up to 30 hours (76Cx)

Up to 20 hours (76CSx)

on GPSMAP 76CSx

(160 x 240 pixels)

(typical); ±5 degrees extreme northern





Accepts MapSource\* BlueChart' data for detailed offshore cartography



Get detailed street maps plus the location of services with MapSource\* City Navigator\*



MapSource TOPO data is ideal for outdoor sports such as hiking or geocaching.



The barometric altimeter feature on the GPSMAP 76CSx provides elevation profiles.

意GARMIN

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www.garmin.com

Specifications are preliminary and subject to change

\*On average for a stationary receiver with an open sky liew

Navigation features

Waypoints/icons:

1000 with name and graphic symbol,

10 proximity

Routes:

50 reversible routes with up to 250 points each, plus MOB and TracBack modes Automatic track log; 20 saved tracks let

Tracks:

you retrace your path in both directions Current speed, average speed, resettable

Trip computer:

max. speed, trip timer and trip distance

Alarms:

Anchor drag, approach and arrival, off-course, proximity waypoint, shallow

water and deep water

Tables:

Built-in celestial tables for best times to fish and hunt, sun and moon rise/set

Map datums:

based on date and location More than 100 plus user datum

Position format:

Lat/Lon, UTM/UPS, Maidenhead, MGRS, Loran TDs and other grids, including

user grid

<1 sec

GPS performance

Receiver:

High sensitivity SiRFstarIII™ GPS receiver; WAAS-enabled; continuously tracks and

updates your position

Acquisition times \*:

Warm:

Cold: <38 SEC Factory reset: <45 sec

Update rate:

1/second, continuous

GPS accuracy:

Position: Velocity: <10 meters, typical .05 meter/sec steady state

DGPS (WAAS) accuracy:

Position: Velocity:

<5 meters, typical .05 meter/sec steady state

Dynamics:

4 q's

Protocol messages:

NMEA 0183 output protocol

Antenna:

Built-in guad helix receiving antenna, with external antenna connection (MCX)

Moving map features

Baseman:

(GPSMAP 76Cx & 76CSx) Built-in routable basemap (North and

South America) with cities, highways, interstates, local thoroughfares and secondary roads within metro areas. interstate exit services, airports, rivers, lakes, coastlines and tide stations

Case:

Fully gasketed, high impact plastic alloy, waterproof to IEC 60529 IPX7 standards

2.7 °W x 6.2 °H x 1.2 °D (6.9 x 15.7 x 3.1 cm)

7.7 ounces with batteries (not included)

Temp. range:

5°F to 158°F (-15°C to 70°C)

1.6 °W x 2.2 °H (4.1 x 5.6 cm)

256-color transflective TFT display

User data storage:

Indefinite, no memory battery required

Accessories

Standard:

128 MB microSD card PC/USB interface cable

MapSource Trip & Waypoint Manager CD

Owner's manual Quick reference guide Wrist strap

Optional:

Marine mount Carrying case 12-volt adapter cable Power/data cable Remote GPS antenna

**GPSMAP 76Cx** 



GPS 76CSx



# SCINTREX ENVIGEOPHYSICAL SYSTEM

The Scintrex ENVI System gives you the flexibility to find the increasingly more elusive anomalous targets. A complete ENVI system is low cost, lightweight, portable proton precession magnetometer/gradiometer with VLF capabilities which enables you to survey large areas quickly and accurately. Whether it is for Magnetic surveys, VLF electromagnetic surveys or a combination of these techniques, the ENVI system can be designed to suit your own unique requirements. This customized approach gives you the ability to select the following options for your instrument:

- Portable Field and Base Station Magnetometer
- True Simultaneous Gradiometer
- VLF Electromagnetic Receiver
- VLF Resistivity Option

#### BENEFITS

#### **Customize Your System**

At the heart of the ENVI system is a lightweight console with a large screen alphanumeric display and high capacity memory which is common to all configurations. Included with each system are the appropriate sensors, sensor staff and/or backpack, a rechargeable battery, battery charger, an RS-232 cable and a transit case.

#### **Increase Productivity**

For magnetic surveys you can select sampling rates of 0.5 second, 1 second and 2 seconds.

# Rapidly Recall Data

For quality of data and for 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.

# Simplify Fieldwork

The ENVI makes surveys easier to conduct as the system:

- provides simple operator menus
- presents the data both numerically and graphically on the large LCD screen
- eliminates the need to write down field data as it simultaneously stores time, field measurements and grid coordinates
- clears unwanted last readings if selected
- calculates statistical error for each measurement
- automatically calculates the difference between the current reading and the previous one (base station)
- provides the ability to remove the coarse magnetic field value or data from the field data to simplify plotting of the field results
- automatically calculates diurnal corrections
- allows for hands free operation with the backpack sensor option



ENVI VLF is the ideal groundwater exploration tool.

With the gradiometer option there is no lost survey time as the ENVI enables you to conduct gradient surveys during magnetic storms. The technique of simultaneously measuring the two sensors cancels the effects of diurnal magnetic variations.

#### **ENVI VLF**

The ENVI VLF is ideal for environmental, geotechnical and mineral/water exploration application.

The ENVI VLF unit allows you to read the vertical in-phase, vertical quadrature, total field strength, dip angle, primary field direction, apparent resistivity, phase angle, time, grid coordinates, direction of travel along grid lines and natural and cultural features. The ability to obtain data from as many as 3 VLF transmitting stations provides complete coverage of an anomaly regardless of the orientation of the survey grid of of the anomaly itself.

The unique, 3-coil sensor does not require orientation of the VLF sensor head toward the transmitter station. This simplifies VLF field procedures and saves considerable survey time.

The ENVI VLF can measure up to three VLF frequencies. The display indicates the signal to noise ratio which provides you with an immediate indication of how usable a frequency is. The ENVI also enables you to automatically scan the entire VLF spectrum for the most usable stations between 15 kHz to 30 kHz. Using up to three frequencies optimizes conductor coupling even in the most complex geological environments. The ENVI VLF system's ability to obtain repeatable readings from weak signals offers a number of benefits:

- extends the use of VLF to countries where its use was previously marginal
- · increases the number of frequencies with which you can operate

# **VLF Resistivity Option**

The ENVI also offers a non-orientation VLF resistivity option.

#### ENVI MAG/VLF

The ENVI MAG/VLF has the features of both the ENVI MAG and ENVI VLF combined in one instrument.

# **ENVI GRAD/VLF**

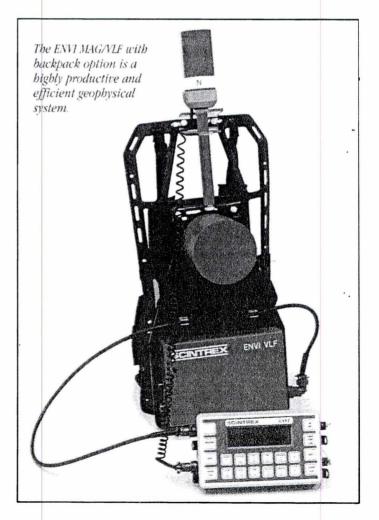
The ENVI GRAD/VLF has the features of both the ENVI GRAD and ENVI VLF combined in one instrument.

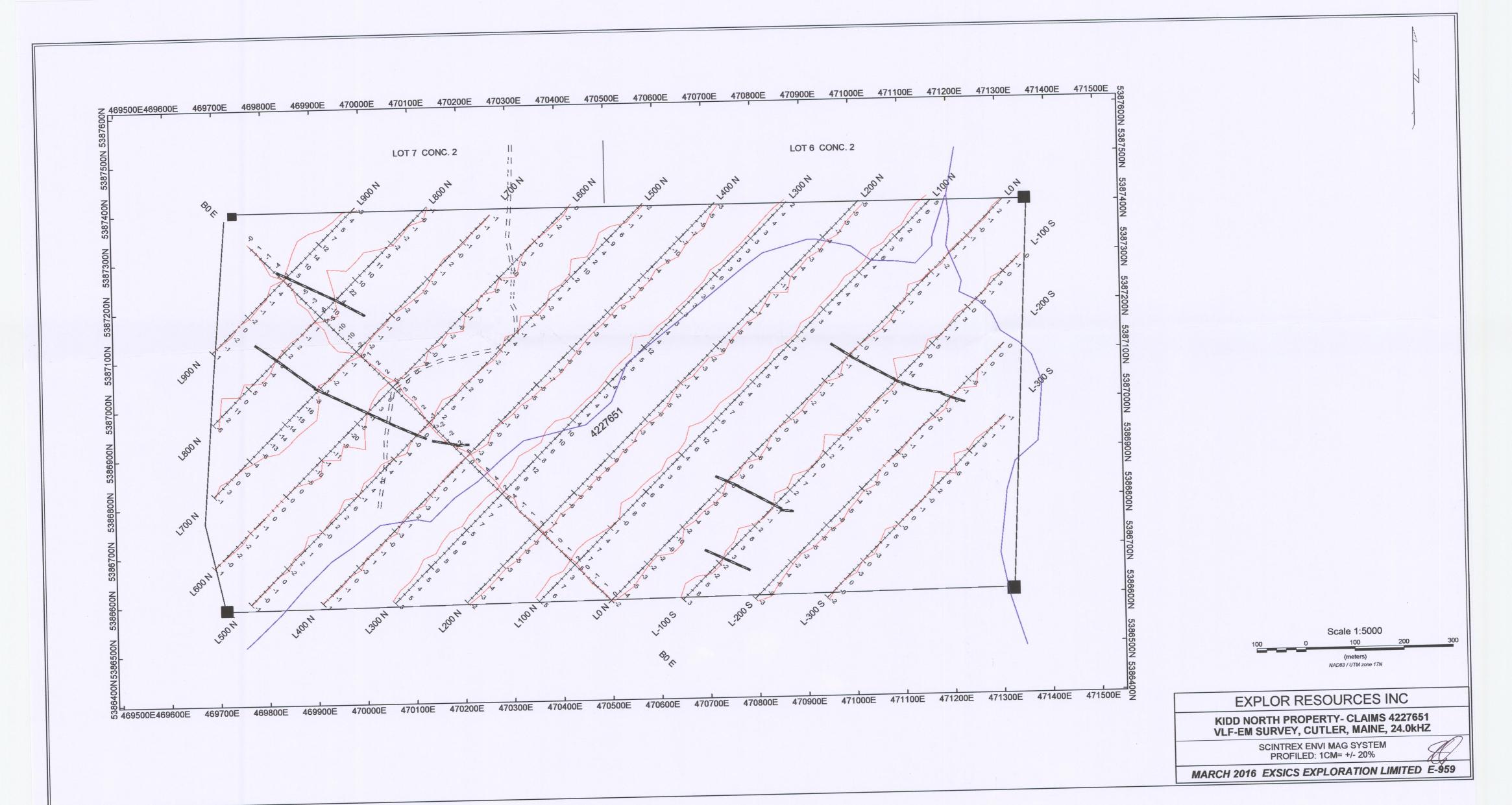
## **ENVI MAP Software**

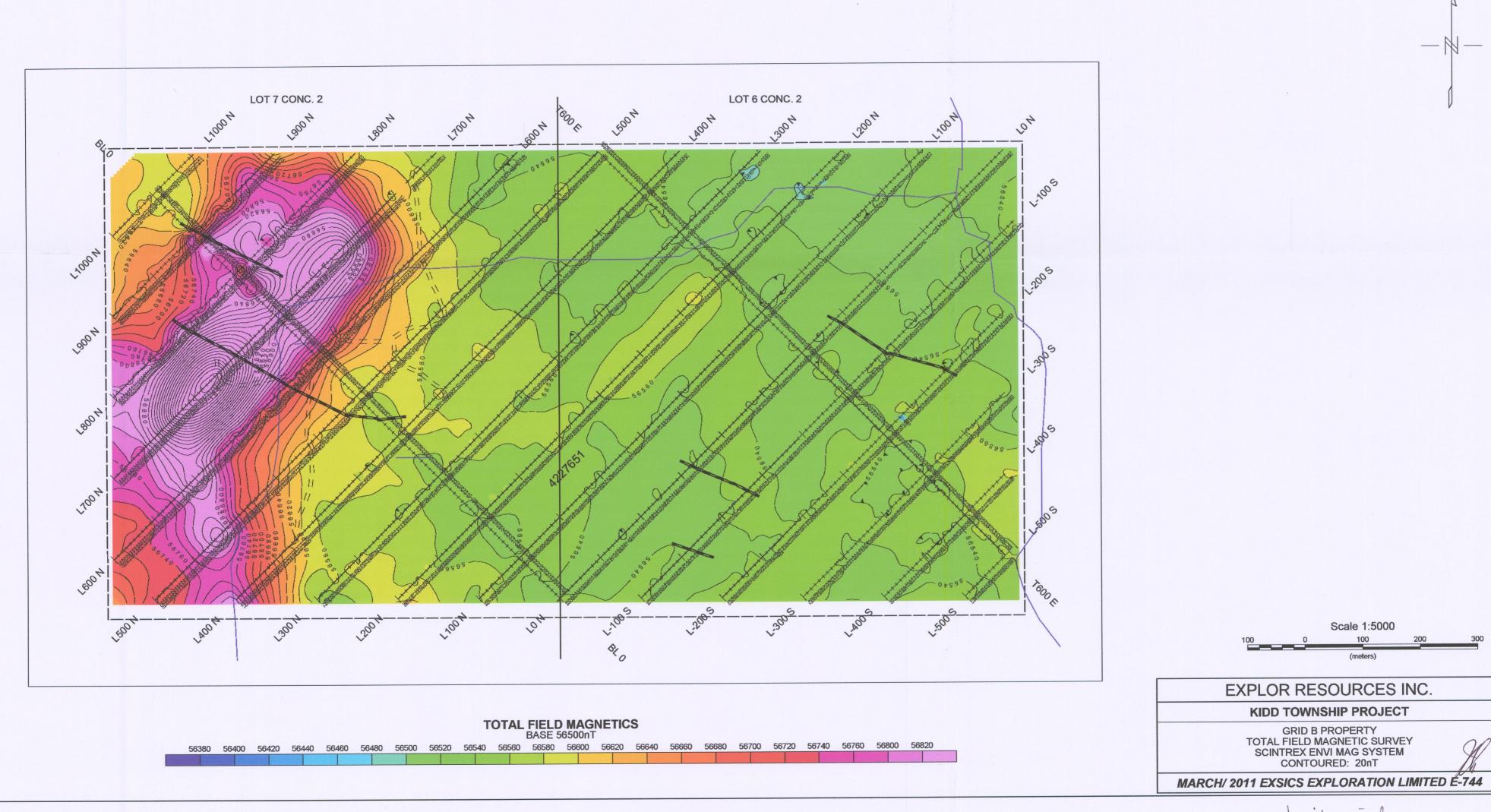
Supplied with the ENVI MAG and ENVI GRAD and custom designed for this purpose, is an easy to use, menu-driven data processing and mapping software for magnetic data called ENVI MAP. The software enables you to:

- read the ENVI MAG/GRAD data and reformat it into a standard, compatible with the ENVI MAP 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 map surround
- · contour the grided data
- autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 inch wide dot-matrix printer
- rasterize and output the results of the autoscaling to the printer

The ENVI MAP software is fully compatible with Geosoft programs. More advanced data processing, modeling and interpretation software is also available.







Destorical Survey

