

MAGNETOMETER SURVEY REPORT

on the

**PROUDFOOT TOWNSHIP PROPERTY
CAMILLERI GRID**

**PROUDFOOT TOWNSHIP
DISTRICT OF NIPISSING
ONTARIO**

FOR

JONATHAN P. CAMILLERI

prepared by:

L.D.S. Winter, P.Geol.
26 March 2014

2.55585

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1. INTRODUCTION

Mr. J.P. Camilleri holds 2 contiguous active mining claims containing 16 units and covering 256 ha in Proudfoot township, District of Nipissing, Ontario at 79°-7.1'W longitude, 45°-42.5'N latitude (Figure 1). The claims were acquired for their potential to host uranium and rare earth mineralization of economic interest. Between the 5th March and 9th March 2014, Dan Patrie Exploration Ltd. carried out a magnetometer survey on the Property at the request of Mr. Camilleri. The following report describes the work carried out on the subject claims and the results obtained.

2. PROPERTY

2.1 PROPERTY DESCRIPTION

The Proudfoot Township Property is comprised of 2 unpatented contiguous mining claims containing 16 units and covering 256 ha as listed in Table 1 and as illustrated in Figure 2. The Property is located within the Proudfoot township claim map area (M-0196) and the claims cover Lots 28, 29, 30 and 31 of Concessions 6 and 7. The claims are held in the name of Jonathan Paul Camilleri (100%).

**TABLE 1
PROUDFOOT TOWNSHIP PROPERTY CLAIMS
COVERED ALL OR IN PART BY MAGNETOMETER SURVEY**

Township / Area	Claim Number	Lot/Concession	Claim Due Date	Units	Area (ha)
Proudfoot	SO1500574	Lot 28 & 29, Con. 6 & 7	2015-Mar-05	8	128
Proudfoot	SO1500575	Lot 30 & 31, Con. 6 & 7	2015-Mar-05	8	128
TOTAL	2			16	256



FIGURE 1
PROUDFOOT TOWNSHIP PROPERTY
CAMILLERI GRID

Location Map

Scale 1:750 000

March 2014

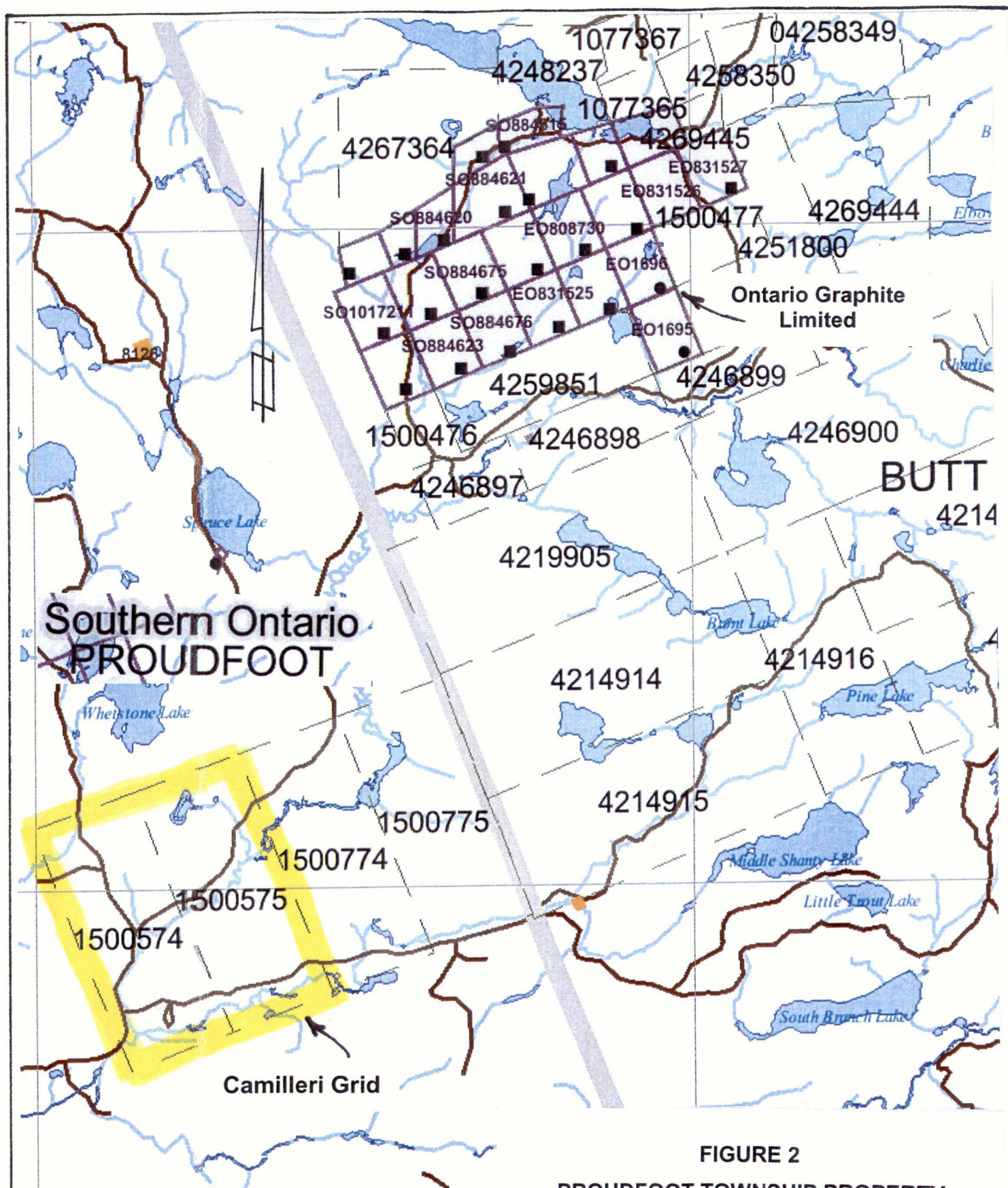
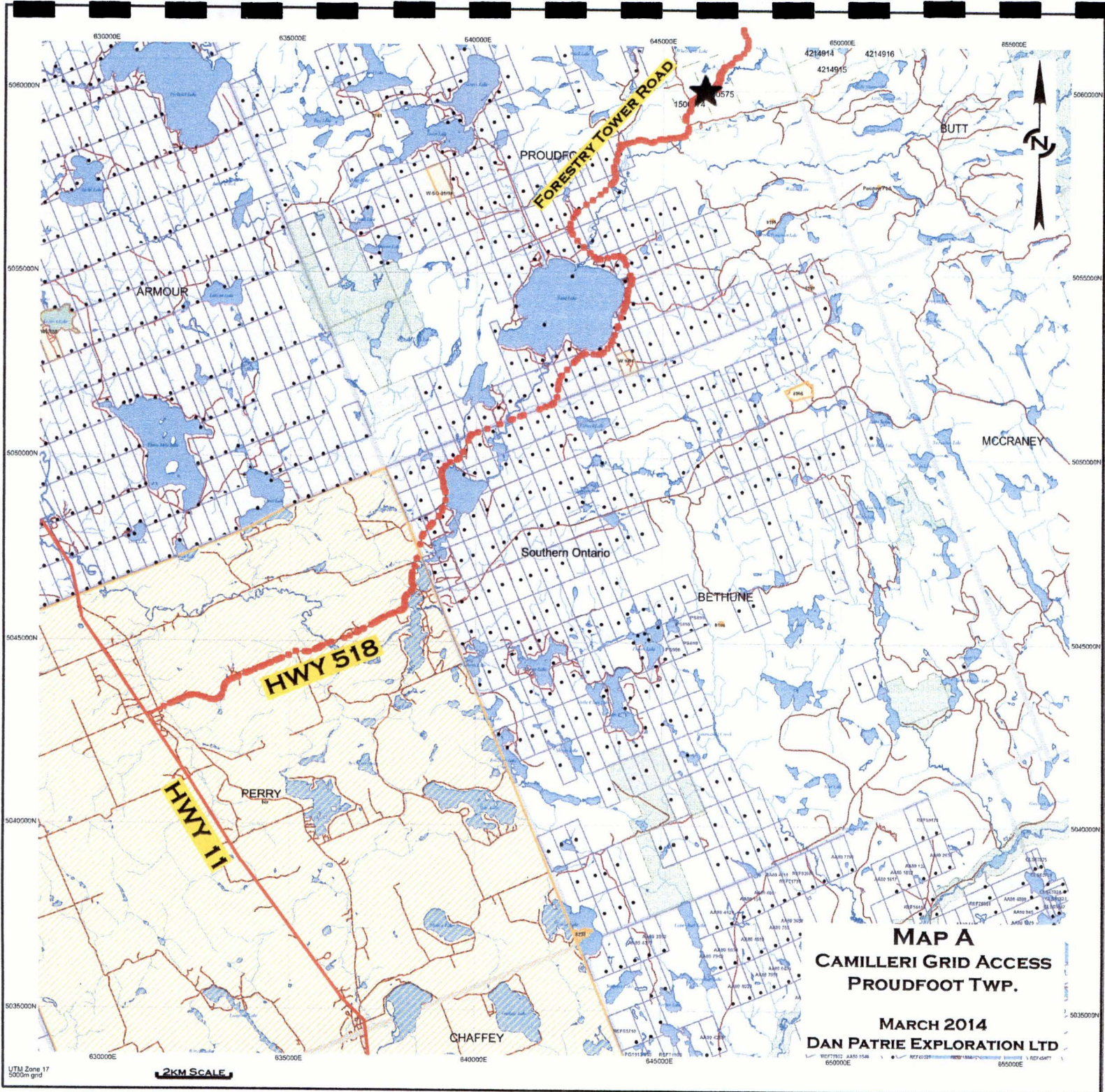


FIGURE 2
PROUDFOOT TOWNSHIP PROPERTY
CAMILLERI GRID
Claim Map

Scale: 1:40 000

March 2014



UTM Zone 17
5000m grid

2KM SCALE

MAP A
CAMILLERI GRID ACCESS
PROUDFOOT TWP.

MARCH 2014
DAN PATRIE EXPLORATION LTD.

2.2 LOCATION, ACCESS AND INFRASTRUCTURE

The Property is located approximately 50 km north-northeast of Huntsville, Ontario at 79°-7.1'W longitude, 45°-42.5'N latitude and centred at UTM, NAD 83, Zone 17 co-ordinates 646100mE; 5059800mN (Figure 2).

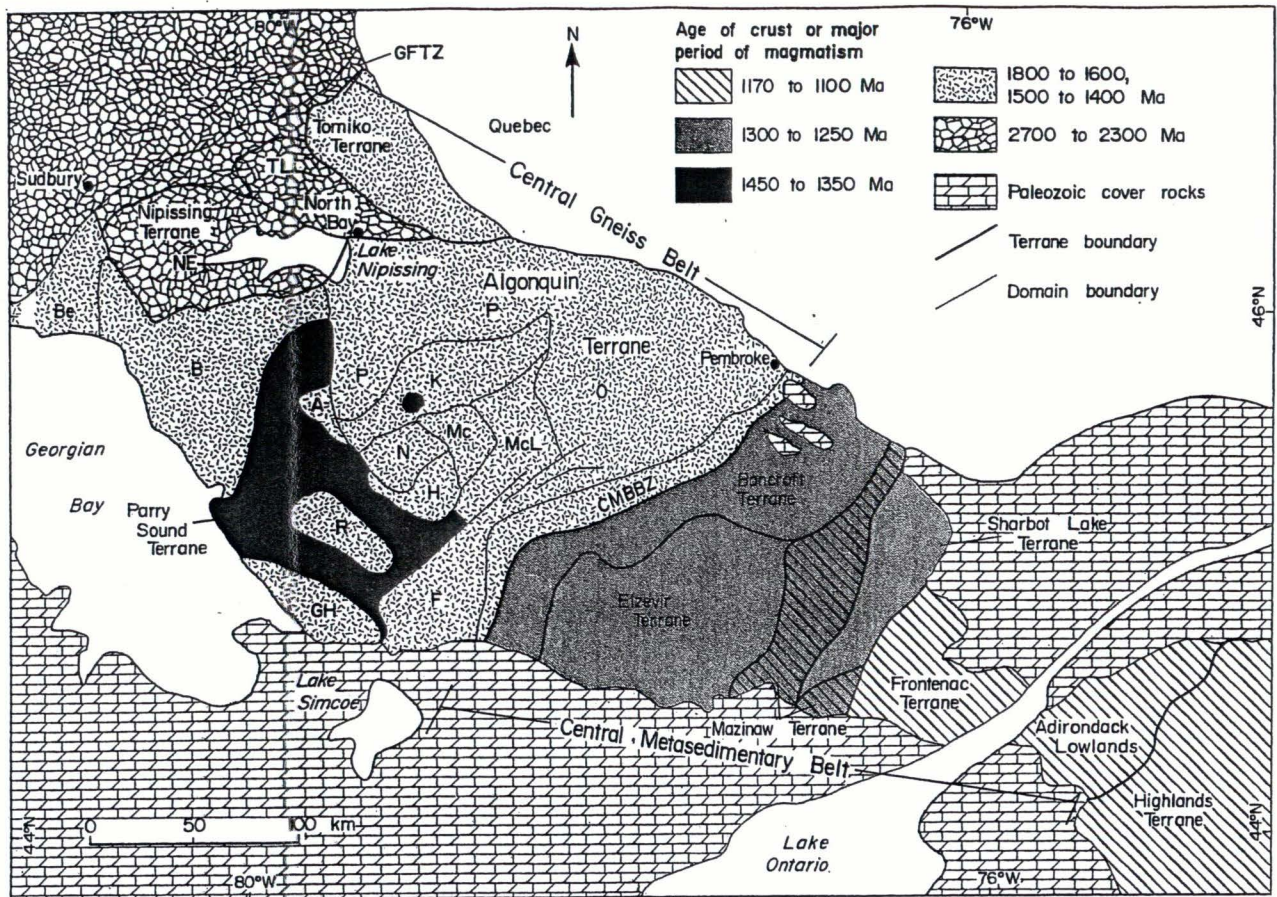
Access to the Property is by road from Provincial Highway #11 at Elmsdale, Ontario about 20 km north of Huntsville. From Elmsdale, Provincial Highway 518 leads east to Kearney (10 km) and then the road leads northeast from here an additional 10 km to Sand Lake. From Sand Lake to the Property is about 8 km on the Forestry Tower Road (Map A). A number of logging roads provide good access to all sections of the Property.

Algonquin Park is to the east of the Property and the Ontario Graphite Limited Property is to the northeast (Figure 2).

3. GEOLOGY

The Proudfoot township property is located within the Kiosk domain of the Algonquin Terrain of the Central Gneiss Belt of the Western Grenville Province, Ontario (Figure 3). The central Gneiss Belt and the Central Metasedimentary Belt are the 2 major subdivisions of the Grenville Province in Ontario.

The Central Gneiss Belt consists mainly of upper amphibolite and local granulite-facies, quartzo-feldspathic gneisses chiefly of igneous origin with subordinate paragneiss. The dominant structural trend is northeasterly, however, northwesterly trends occur along Georgian Bay. The Central Gneiss Belt consists of a variety of Archean to Mesoproterozoic crustal segments, all of which have been affected by the "Grenville Orogeny". Rocks of 3 main ages are present. North of the French River, reworked Archean and Paleoproterozoic gneisses of the Nipissing Terrane are intruded by Mesoproterozoic (1700 to 1350 Ma) plutonic rocks, with granitic and monzonitic rocks predominant. The bulk of the Central Gneiss Belt (Algonquin and Tomiko terranes)



Abbreviations

A Ahmic Domain
 B Britt Domain
 Be Beaverstone Domain
 CMBBZ Central Metasedimentary Belt Boundary Zone
 F Fishog Domain
 GFTZ Grenville Front Tectonic Zone

GH Go Home Domain
 H Huntsville Domain
 K Kiosk Domain
 Mc McCraney Domain
 McL McClintock Domain
 MR Moon River Domain
 N Novar Domain

NE Nepewassi Domain
 O Opeongo Domain
 P Powassan Domain
 PS Parry Sound Domain
 R Rosseau Domain
 S Seguin Domain
 TL Tilden Lake Domain

● **PROPERTY**

**FIGURE 3
 PROUDFOOT TOWNSHIP PROPERTY**

**CAMILLERI GRID
 Regional Geological Framework**

March 2014

After: OGS, Geology of Ontario
 Part 2, p. 720

consists of Mesoproterozoic gneisses (1800 to 1600 Ma) intruded by 1500 to 1400 million-year-old granitic and monzonitic plutons that may represent an extension of the Eastern Granite-Rhyolite Province across the Grenville Front. The Parry Sound Terrane consists of mafic to intermediate rocks extracted from the mantle at about 1450 to 1350 Ma.

Distinctive lithotectonic terranes, some further sub-divided into domains, have been identified within the Central Gneiss Belt. The terranes and domains are distinguished by differences in rock types, internal structure, metamorphic grade, geologic history and locally by geophysical signature. They are bounded by zones of intensely deformed layered rocks traceable for tens of kilometres.

The Algonquin Terrane consists of quartzo-feldspathic gneisses of plutonic and supracrustal origin characterized by a complex pattern of structural domains. Thus, the Algonquin Terrane is an area of Mesoproterozoic, polycyclic rocks, consisting of a number of domains (domains and subdomains). The southern and western parts of the Algonquin Terrane have been subdivided into the Britt, Ahmic, Kiosk, Rosseau, Go Home, Huntsville, Novar, McClintock domains interpreted to represent the lowest portion of a stacked succession of thrust sheets in this region. Large folded sheets of gneissic granites with primary isotopic ages in the 1500 to 1400 million year range occur in all these domains. Rocks of this age are common in the Eastern Granite-Rhyolite Province and the Algonquin Terrane and probably represent a section of Mesoproterozoic crust (1800 to 1600 Ma) extensively injected by granitic magmas of the Eastern Granite-Rhyolite Province. (Central Gneiss Belt, Grenville Province, Part 2, Section 19, Geology of Ontario, Easton, 1992).

The Proudfoot township property which lies within the Kiosk domain, is underlain by mafic, quartzo-feldspathic and metapelitic units at the amphibolite to granulite grade of metamorphism. In turn these units host radioactive pegmatite dykes which host allanite, uraninite, pyrochlore, columbite and other rare earth and uranium-bearing minerals (Ferguson, 1971; Hewitt, 1967).

4. INSTRUMENTATION AND WORK DONE

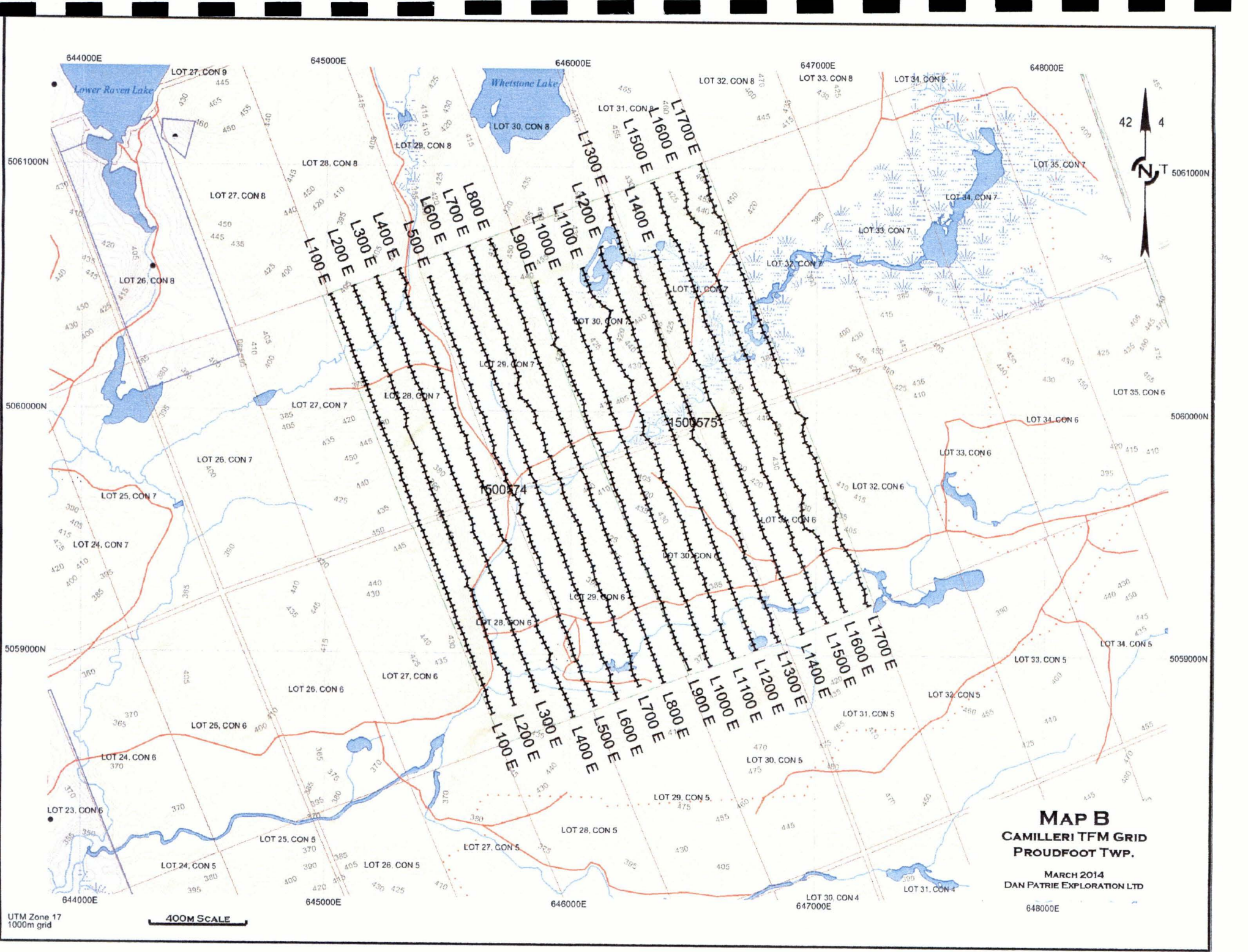
Between the 5th March and 9th March 2014 inclusive, a program of geophysical surveying along 17 GPS and compass lines at 100 m spacings was carried out over the Proudfoot Property. A total field magnetometer survey with readings being taken at 25 m intervals was carried out over 31.625 line-kilometres (Maps B, 1 and 2) . The grid covers Lots 28, 29, 30 and 31 of Concessions 6 and 7 of Proudfoot township. The survey lines trend N20°W parallel to the township lot fabric.

The survey was done using a 2 man crew. In the crew, one person determined the line and the station locations using a compass and a GPS unit and the second person carried out the magnetometer survey and recorded the readings.

The survey was carried out using a Scintrex Envi magnetometer unit. The Envi Mag has the capability to measure the total field combined with an Envi Magnetometer as a base station for correcting magnetic diurnal drift. These are total field magnetometers which measure the magnetic field through the use of proton precessional effects caused by the interaction of a magnetic field with a spin aligned, proton rich fluid (Appendix 1).

An instrument accuracy precision and resolution of 0.1 nt may be obtained with these instruments under ideal conditions. While in gradient mode which was not done at this time, the unit has the means of measuring both the total field and the gradient of the total field with two sensors simultaneously. In gradient mode, the instrument sharply defines the magnetic responses determined by the total field. It individually delineates closely spaced anomalies rather than collectively identifying them under one broad magnetic response. Also, when doing a gradient survey the instrument enables one to conduct a gradient survey during a magnetic storm because the technique of simultaneously measuring with the two sensors cancels out the effects of diurnal magnetic variations.

Microprocessors contained in these instruments allow for the collection of the



MAP B
CAMILLERI TFM GRID
PROUDFOOT TWP.
 MARCH 2014
 DAN PATRIE EXPLORATION LTD

UTM Zone 17
 1000m grid
 400M SCALE

readings along with the time and its position in digital form suitable for downloading to a computer for date processing.

A total of 31.625 km of magnetic readings were taken along the lines 100 m apart with 25 m station intervals. The field measurements were corrected for diurnal variations of the earth's magnetic field by direct subtraction of the base station readings from the reading taken at the same moment in the field units. The corrected data was downloaded to a computer for plotting. The results are presented in Maps 1 and 2, Total Field Magnetics.

The geophysical survey was carried out by Dan Patrie Exploration Ltd., Massey, Ontario an experienced geophysical contractor.

5. RESULTS

5.1 MAGNETOMETER SURVEY

In Map 1, Camilleri Grid Map 1, Total Field Magnetics, the magnetic reading values in nanoteslas are related to the visible colour spectrum with the lowest magnetic values represented by the blue colours, intermediate colours by greens and yellows and the highest magnetic susceptibility values by the red/purple colours.

The total field magnetic survey shows a full range of values with the lowest values being in the 54360 nT range and the highest or positive anomalous values being in the 55610 nT range with the total magnetic relief being in the order of 1250 nT. Intermediate magnetic susceptibilities are in the 54800 nT to 55000 nT range.

There are two zones of low magnetic values. One is in the western half of the Property and trends approximately north-south from the southwest corner of the grid (Lines 1+00E to 5+00E) to the northern limit of the grid at L9+00E. This zone appears to split into two "legs" or parts in the southern 600 m of the grid. The lowest magnetic readings in the 54360 nT range occur in this zone.

A second parallel, linear, north-south-trending “low” or zone is present from the northeast corner of the grid to L13+00E at 800 m north with the lowest magnetic values being <54500 nT. These two linear, magnetic low zones appear to be superimposed on a background of intermediate to higher magnetic values.

The overall pattern on the grid, apart from the two indicated linear lows is for the most part “irregular”. In the western part of the grid, west of the western low, the higher magnetic values tend to show irregular linear patterns trending from north-south in the north to northeast in the central and southern parts of the grid.

East of the western, linear low there is a more irregular to “hummocky-like” pattern of small interspersed highs and lows. In some cases the higher values show linear trends to the northwest-southeast, and east-northeast. At approximately 13+00N and from L8+00E to L17+00E there is a noticeable linear zone of higher magnetic values.

6. SUMMARY AND CONCLUSIONS

A total field magnetic survey was carried out on the Proudfoot Township Property with readings being taken every 25 m on 17 lines for a total of 31.625 km with lines spaced at 100 m.

The Property is considered to lie within the Kiosk domain of the Grenville Central Gneiss Belt. The Kiosk domain is comprised of mafic to quartzo-feldspathic to metapelitic units at the amphibolite to granulite grade of metamorphism. In this geological context, the background intermediate to high magnetic reading areas are considered to represent various, interlayered gneiss units with the increased magnetic readings due to various amounts of magnetite in the gneiss units. The apparently crosscutting magnetic lows may represent later faults and/or dykes of a more felsic character.

To further evaluate the potential of the Property for mineralization of economic

interest it is recommended that the Property be geologically mapped so as to better understand the geological environment in the area.

7. **PERSONNEL**

The magnetometer survey was carried out by Dan Patrie Exploration Ltd., Massey, Ontario using the following personnel.

Gab Roy, Elliot Lake, Ontario
Ian Cardiff, Sault Ste. Marie, Ontario.

8. **EXPENDITURES**

Expenditures on the Property for the magnetometer survey are as follows.

1.	31.625 km @ \$250/km for the survey: 2 man crews; 1 man compass, GPS & picketing; 1 man reading mag	\$ 7,906
2.	Mob/demob; Massey to Property	800
3.	Report, interpretation and filing	<u>1,200</u>
		\$ 9,906
		<u>1,288</u>
		\$ 11,194

L.D.S. Winter, P.Geo.
26 March 2014

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The Grenville Province and the Proterozoic History of Southern and Central Ontario; p. 715-754, The Central Gneiss Belt, in Geology of Ontario, Part 2, MNDM.
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4. Marmot, C. and Johnston, M., 1987
Mineral Deposits Studies in the Huntsville-Parry Sound-Powassan Area – A Progress Report, OFR 5647, OGS, Mines & Minerals Division.

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CERTIFICATE OF AUTHOR

I, Lionel Donald Stewart Winter, P. Geo. do hereby certify that:

1. I am currently an independent consulting geologist.
2. I graduated with a degree in Mining Engineering (B.A.Sc.) from the University of Toronto in 1957. In addition, I have obtained a Master of Science (Applied) (M.Sc. App.) from McGill University, Montreal, QC.
3. I am a Life Member of the Canadian Institute of Mining, a Life Member of the Prospectors and Developers Association of Canada, a Registered Geoscientist in Ontario and in British Columbia (P.Geo.).
4. I have worked as a geologist for a total of 52 years since my graduation from university.
5. I am the author responsible for the preparation of the Magnetometer Survey Report titled "Magnetometer Survey Report on the Proudfoot Township Property, Camilleri Grid, District of Nipissing, Ontario" and dated 26 March 2014.

Dated this 26th Day of March 2014

L.D.S. Winter



L.D.S. Winter, P.Geo.



APPENDIX I

SCINTREX ENVI-MAG MAGNETOMETER SPECIFICATIONS

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

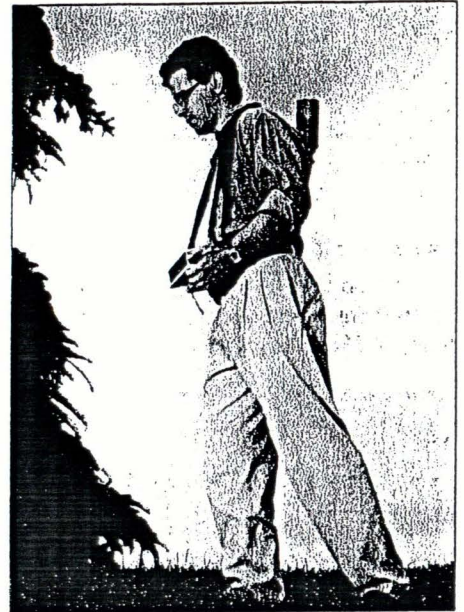
0.5 second, 1 second and 2 second reading rates user selectable from the keyboard.

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.

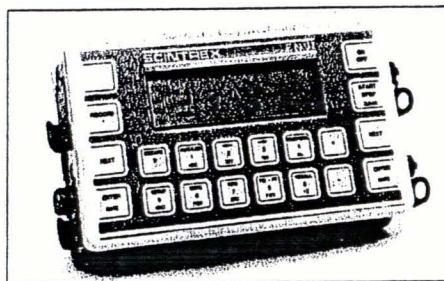


ENVI-MAG Proton Magnetometer in operation

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.

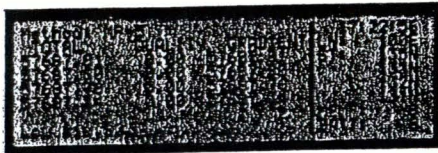
"Datacheck" Quality Control of Data

"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

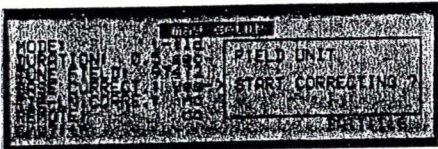
"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



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: 109,000 readings
Base Station Measurements: 750,000 readings

Real-Time Clock

Records full date, hours, minutes and seconds with 1 second resolution, +/- 1 second stability over 12 hours

Digital Data Output

RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off

Analog Output

0 - 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1,000 or 10,000 nT full scale

Power Supply

Rechargeable "Camcorder" type, 2.3 Ah, Lead-acid battery.

12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer,

External 12 Volt input for base station operations

Optional external battery pouch for cold weather operations

Battery Charger

110 Volt - 230 Volt, 50/60 Hz

Operating Temperature Range

Standard 0° to 60°C
Optional -40°C to 60°C

Dimensions

Console - 10 x 6 x 2.25 inches
(250 mm x 152 mm x 55 mm)
T.F. sensor - 2.75 inches dia. x 7 inches
(70 mm x 175 mm)
Grad. sensor and staff extender - 2.75 inches dia. x 26.5 inches (70 mm x 675 mm)
T.F. staff - 1 inch dia. x 76 inches (25 mm x 2 m)

Weight

Console - 5.4 lbs (2.45 kg)
with rechargeable battery
T. F. sensor - 2.2 lbs (1.15 kg)
Grad. sensor - 2.5 lbs (1.15 kg)
Staff - 1.75 lbs (0.8 kg)



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