



**CANADIAN EXPLORATION SERVICES LTD**

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# **TIGER GOLD EXPLORATION CORPORATION**

## **Beepmat Survey Over the HARKER HERITAGE PROPERTY AREA 13**

**Clifford, Elliott, Harker, Hol-  
loway, Tannahill and Marriott  
Townships, Ontario**

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Harker Heritage Property – Area 13**.

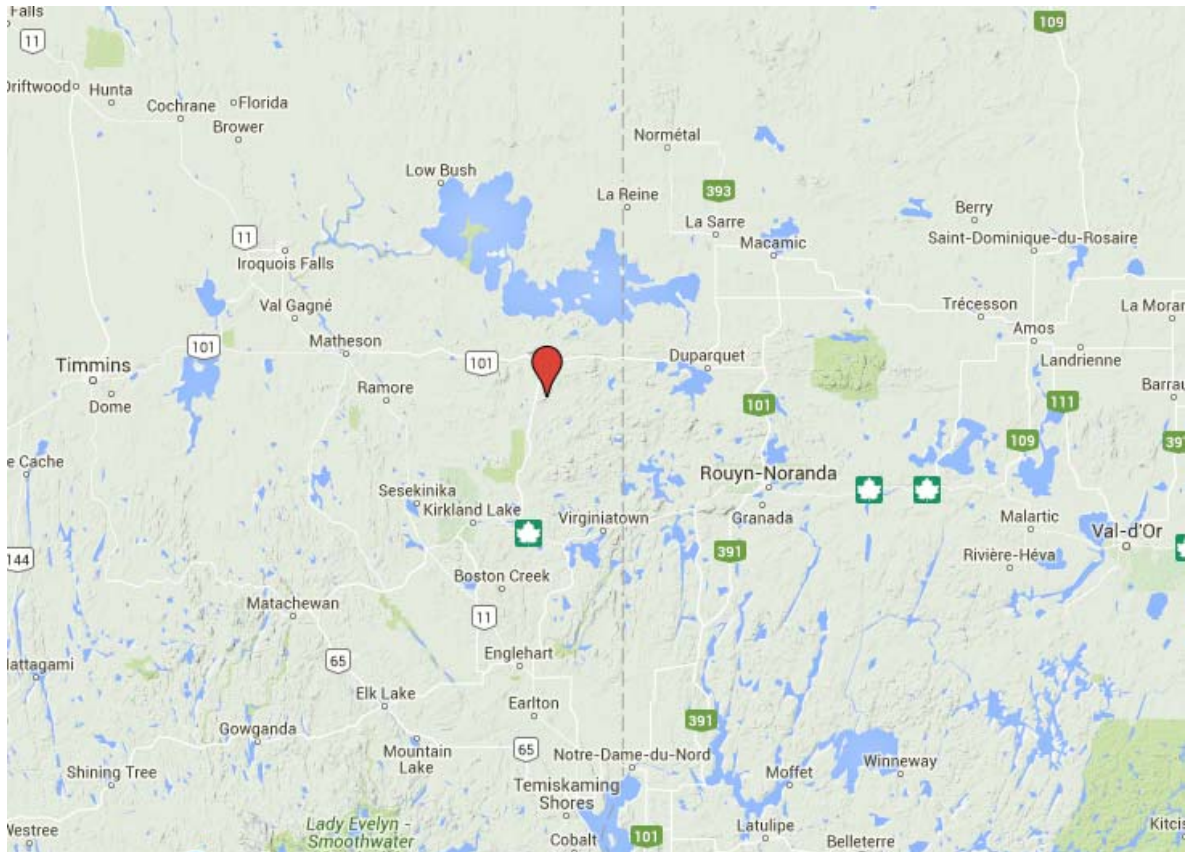
### 1.2 CLIENT

TIGER GOLD EXPLORATION CORPORATION,

103 Government Road.  
Kirkland Lake, Ontario  
P2N 1A9

### 1.3 LOCATION

The Harker Heritage Property is located approximately 50 km northeast of Kirkland Lake, Ontario. The property consists of 375 mining claims comprising of over 850 units spanning Clifford, Elliot, Harker, Holloway, Tannahill and Marriott Townships within the Larder Lake Mining Division.



***Figure 1: Location of the Harker Heritage Property***

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#### **1.4 ACCESS**

Access to the property was attained with a 4x4 truck via highway 672 and highway 101. Numerous forestry access roads and trails were travelled by ATV to access the various parts of the property.

Area 13 is located within Elliott Township. Access to this area was via highway 672. Approximately 36.5 kilometers north of its intersection with highway 66, the property crosses the highway. At this location, the truck was parked and an ATV was used for the remainder of the access.

#### **1.5 SURVEY AREA**

The traversed lines were established using a GPS in conjunction with the execution of the survey. The survey area was for reconnaissance and therefore randomly generated in the field based on topography and vegetation.

## 2. SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description	Total Survey (km)
December 12, 2015	Begin spectrometer survey over area 13.	8.75
December 13, 2015	Complete spectrometer survey over area 13.	4.9

**Table 1: Survey Log**

### 2.2 PERSONNEL

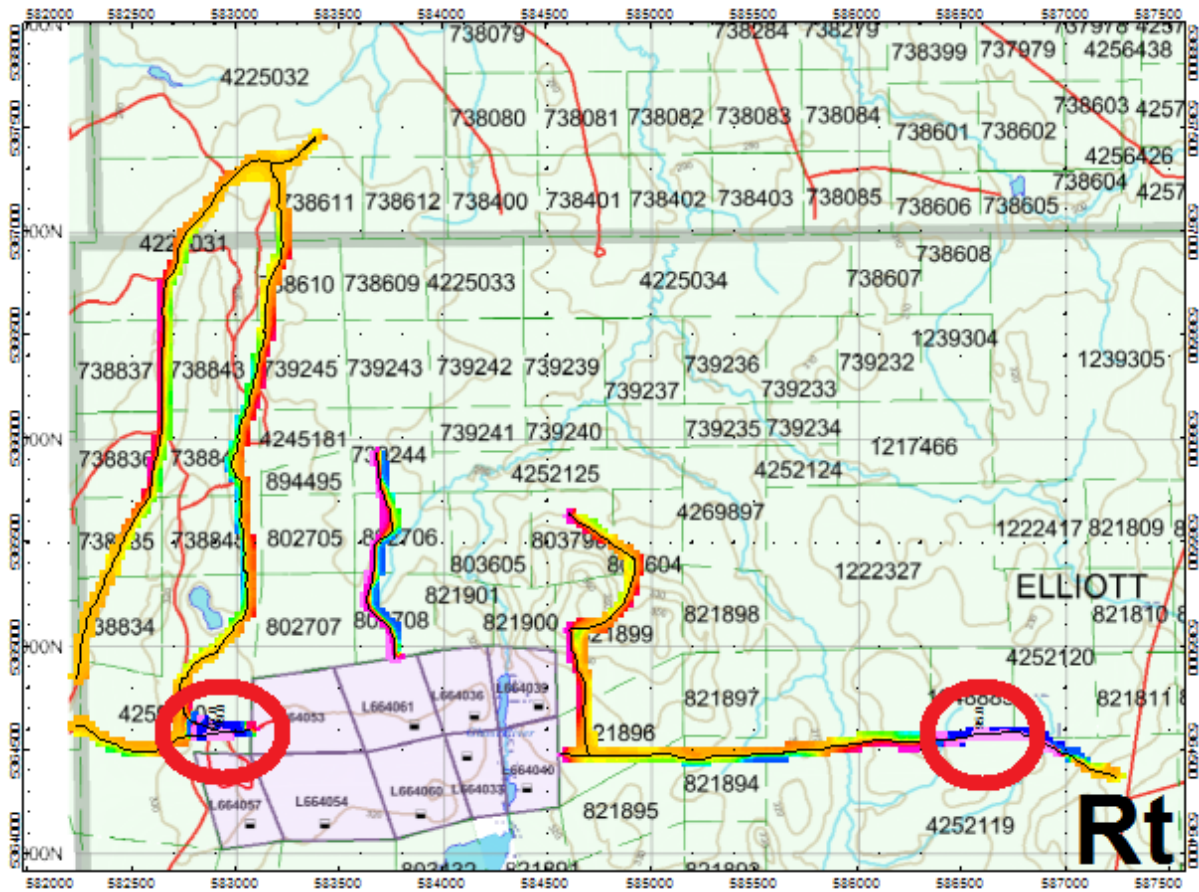
Jason Ploeger of Larder Lake, Ontario operated the Beepmat system along with the navigation using a GPS along the traverses.

### 2.3 SURVEY SPECIFICATIONS

The survey was conducted with a GDD Beep Mat BM8 system. This system was integrated with a Garmin GPSmap 76 GPS with an external antenna. The BM8 was set to automatically take a simultaneous GPS and HFR and LFR measurement every second. Every 15 minutes the BM8 was re-initialized.

A total of 13.65 kilometers of no grid spectrometer survey was performed on December 12<sup>th</sup> and 13<sup>th</sup>, 2015. This consisted of 5695 HFR and LFR samples taken at 1 second intervals.





***Figure 2: Beepmat Readings***

Area 13 represents a large region of the Harker Heritage Property west of highway 672. This traverse represents 13.65 kilometers of traverses both north/south and east west. Some localized areas of interest were noted during the course of the survey however some larger anomalous regions were also highlighted.

Two areas stand out from the survey as being conductive regions. These anomalies may be related to a bedrock source and should be investigated further. A broader area appears near 586877E through 582913E at 5364579N. The second narrow anomaly occurs at 586572 and 5364572.

I would recommend prospecting these regions along with performing a soil sampling program to better determine the source of these anomalies.

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## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do not have nor expect an interest in the properties and securities of **Tiger Gold Exploration Corporation**.
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



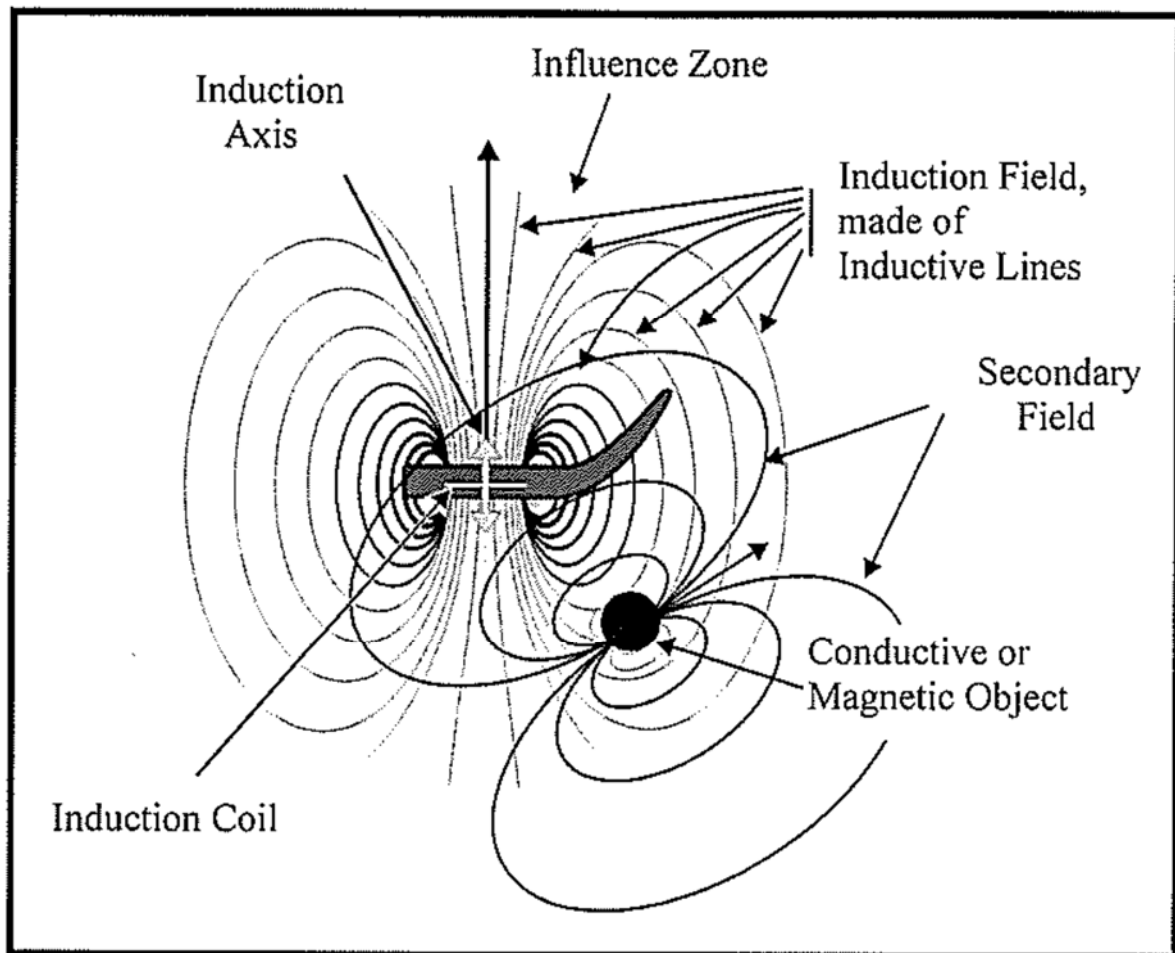
C. Jason Ploeger, P.Ge., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.

Larder Lake, ON  
January 15, 2016



**APPENDIX B****THEORETICAL BASIS AND SURVEY PROCEDURES****BEEP MAT EM SURVEY**

The probe contains an inductive coil within its shell. When the probe is in normal position on the ground, as shown below, the induction axis sent by the coil is in the vertical position.



The influence zone of its induction field has an average radius (called "range") of about 3 meters. This field is similar to the field of a magnet. Any conductive or magnetic object within the zone reacts by sending out a secondary field (or "induced" field) which is weaker and has distinctive features. The probe reacts on the part of this field that goes through its inductive coil. This reaction is then displayed on the reading unit in terms of LFR, HRF, MAG and Rt values.

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Picture the inductive field as being composed of several induction lines crossing the inductive coil and which density increases towards the center of the coil. To illustrate that, only a few induction lines are presented in the above figure. Therefore the greater the number of lines that cross the conductive object, the higher the displayed values will be.

The LFR value (Low Frequency Response) represents a specific reaction of low frequency, in hertz, to the presence of a conductor near the probe.

The HFR value (High Frequency Response) represents a specific reaction of the high frequency, in hertz, to the presence of a conductor near the probe.

The MAG value (Magnetite) represents a specific reaction of the probe, in hertz, to the presence of a magnetic body, in particular containing magnetite (relative susceptibility)

The Rt value (Ratio) indicates the quality of the conductor (intrinsic conductivity) and is independent of the quantity of material present. For the ratio value to be calculated by the unit, there are two conditions

- 1) The HFR must be at least 10Hz
- 2) No magnetite must be present (MAG=0)

In the presence of magnetite, the Rt value is altered and the Rt=0% will be displayed. When HFR is below 10Hz, the Rt value is not precise enough and Rt=0% will be displayed.

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## APPENDIX C

### GDD BEEP MAT MODEL BM8



### FEATURES

- EM / MAG ground survey
- Detect the magnetic susceptibility and EM conductivity along with GPS position
- Get fast results
- Shock resistant, portable and weatherproof.
- Provide real time feedback
- New internal Lithium-Ion in the reading unit
- Transfers data from the reading unit to your PC in order to draw maps.

### SPECIFICATIONS

- **Power Source:** Rechargeable Batteries
- **Daily Autonomy:** Up to 10 hours
- **Memory Capacity:** 8,093,750 readings
- **Weight** (including accessories and shipping bag): 10 kg
- **Dimension** (including accessories and shipping bag): 90 x 30 x 30 cm
- **Operating temperature:** -50C to 70C (-58F to 158F)
- **Positioning:** Garmin GPS Map 76 integrated

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## APPENDIX C

### GARMIN GPS 76



#### GPS Performance

Receiver: WAAS-enabled, 12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position

#### Navigation Features

**Waypoints/icons:** 500 with name and graphic symbol, 10 nearest (automatic), 10 proximity

**Routes:** 50 reversible routes with up to 50 points each, plus MOB and Trac-Back® modes

**Tracks:** Automatic track log; 10 saved tracks let you retrace your path in both directions

**Trip computer:** Current speed, average speed, resettable 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 and location

**Map datums:** More than 100 plus user datum

**Position format:** Lat/Lon, UTM/UPS, Maidenhead, MGRS, Loran TDs and other grids, including user grid

#### Acquisition times

**Warm:** Approximately 15 seconds

**Cold:** Approximately 45 seconds

**AutoLocate®:** Approximately 2 minutes

**Update rate:** 1/second, continuous

#### GPS accuracy

**Position:** < 15 meters, 95% typical\*

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**Velocity:** 0.05 meter/sec steady state

**WAAS accuracy**

**Position:** < 3 meters, 95% typical\*

**Velocity:** 0.05 meter/sec steady state

**Power**

**Source:** Two "AA" batteries (not included)

**Battery Life:** Up to 16 hours

**Physical**

**Size:** 2.7"W x 6.2"H x 1.2"D (6.9 x 15.7 x 3.0 cm)

**Weight:** 7.7 ounces

**Display**

1.6"W x 2.2"H (4.1 x 5.6 cm)

180 x 240 pixels, high-contrast

FSTN with bright backlighting

**Case:** Fully gasketed, high-impact plastic alloy, waterproof to IEC 529 IPX7 standards

**Interfaces:** RS232 with NMEA 0183, RTCM 104 DGPS data format and proprietary Garmin®

**Antenna:** Built-in quadrifilar, with external antenna connection (MCX)

**Differential:** DGPS (USCG and WAAS capable)

**Temperature range:** 5°F to 158°F (-15°C to 70°C)

**Dynamics:** 6 g's

**User data storage:** Indefinite, no memory battery required

- *Specifications obtained from [www.garmin.com](http://www.garmin.com)*

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## APPENDIX D

### LIST OF MAPS (IN MAP POCKET)

Posted beepmat plan maps (1:20000)

- 1) TIGER-HARKER HERITAGE-AREA 13-BEEPMAT-HFR
- 2) TIGER-HARKER HERITAGE-AREA 13-BEEPMAT-LFR
- 3) TIGER-HARKER HERITAGE-AREA 13-BEEPMAT-Rt

**TOTAL MAPS = 3**