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**CANADIAN EXPLORATION SERVICES LTD**

PO Box 219, 14579 Government Road, Larder Lake, Ontario, P0K 1L0, Canada  
Phone (705) 643-2345 Fax (705) 643-2191 [www.cxsltd.com](http://www.cxsltd.com)

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# **TIGER GOLD EXPLORATION CORPORATION**

**VLF EM  
Survey  
Over the**

**BRADETTE PROPERTY  
Bradette Township, Ontario**

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C. Jason Ploeger, P.Geo  
May 3, 2016

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Bradette Property**.

### 1.2 CLIENT

TIGER GOLD EXPLORATION CORPORATION

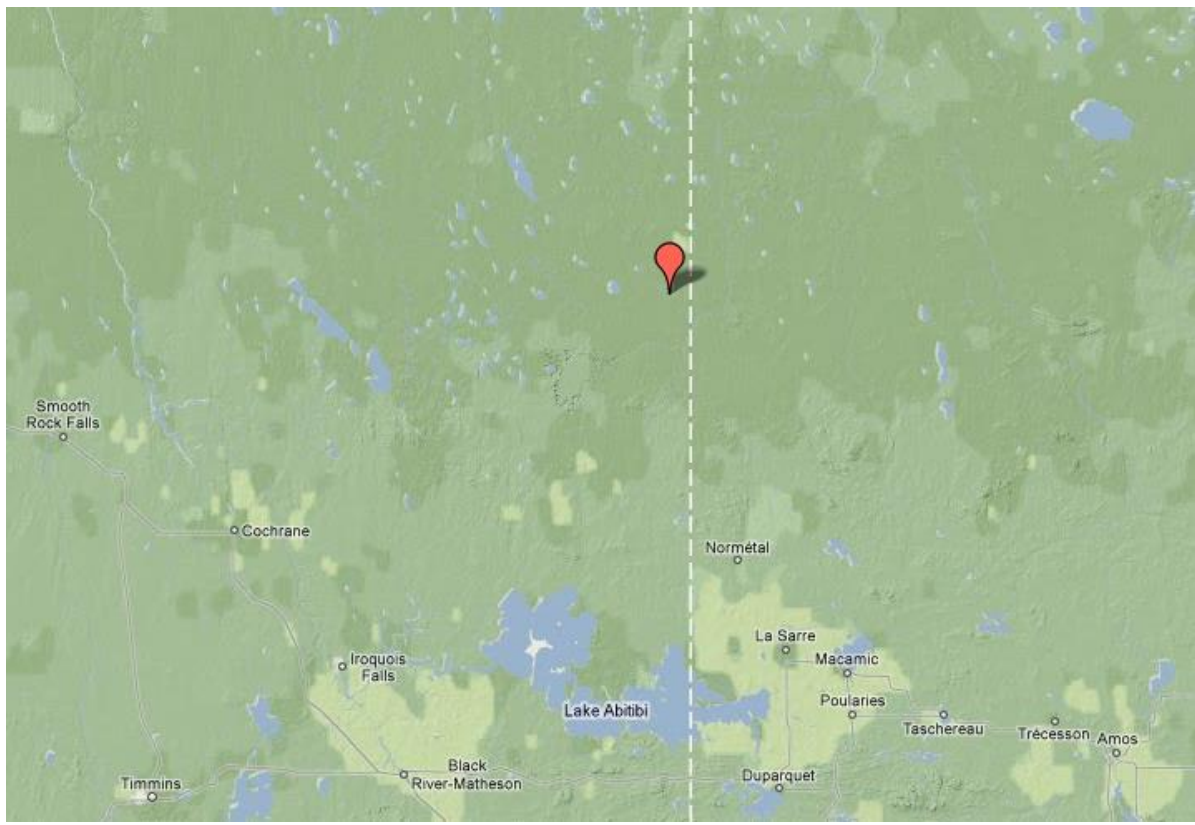
103 Government Road.

Kirkland Lake, Ontario

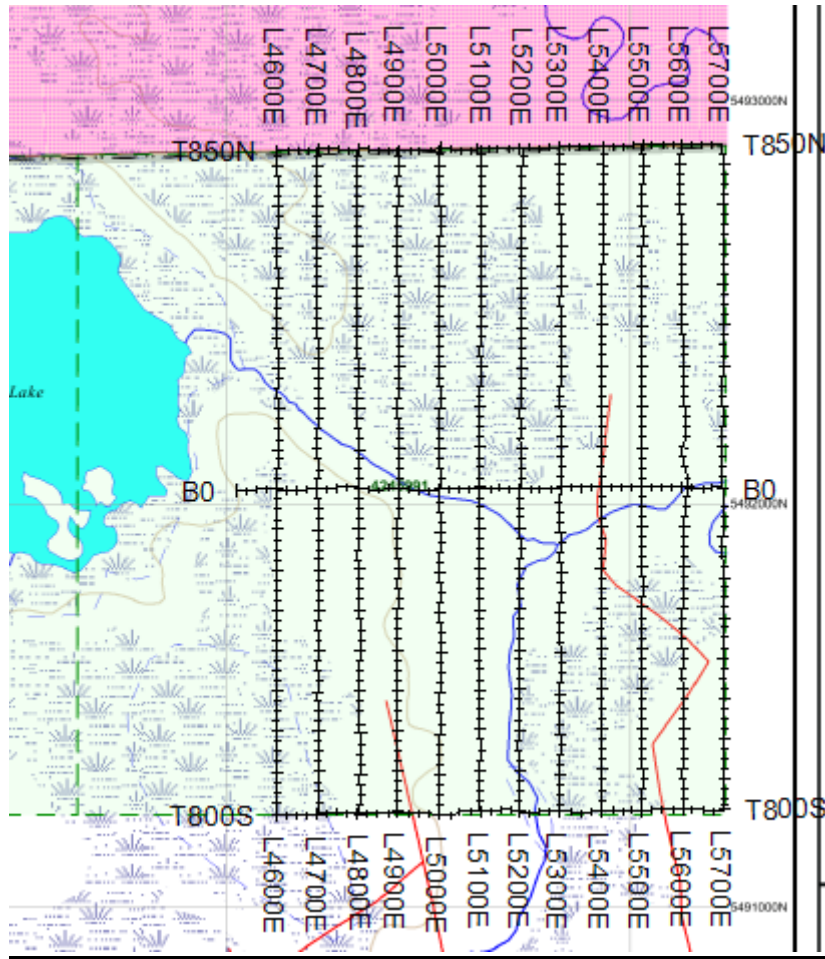
P2N 1A9

### 1.3 LOCATION

The Bradette Property is located approximately 165km north of Larder Lake, Ontario. The survey grid is located in Bradette Township and covers part of mining claims 4245988, 4245989, 4245990 and 4245991 within the Larder Lake Mining Division.



***Figure 1: Location of Bradette Property***



***Figure 2: Claim Map with Bradette Property Traverses***

#### **1.4 ACCESS**

The Bradette property was accessed by helicopter from the Expedition Helicopter Base in Cochrane, Ontario.

#### **1.5 SURVEY GRID**

The traversed lines were established using a GPS in conjunction with the execution of the survey. The GPS operator would establish sample locations while remaining approximately 25m in front of the VLF EM operator. GPS waypoints and VLF EM samples were taken every 25m along these controlled traverses. The GPS used was a Garmin GPSMAP.

## 2. SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description	Line	Min Extent	Max Extent	Total Survey (m)
April 4, 2016	Mobilize to Cochrane locate hanger, get safety briefing and fly to grid. Begin VLF EM survey.	5700E	800S	850N	1650
		5600E	800S	850N	1650
		5500E	800S	850N	1650
		5400E	800S	850N	1650
		850N	5400E	5700E	300
		0	5400E	5700E	300
		800S	5400E	5700E	300
April 5, 2016	Mobilize to Cochrane. Continue survey.	5300E	800S	850N	1650
		5200E	800S	850N	1650
		5100E	800S	850N	1650
		5000E	800S	850N	1650
		850N	5000E	5400E	400
		0	5000E	5400E	400
		800S	5000E	5400E	400
April 6, 2016	Mobilize to Cochrane. Complete VLF EM survey.	4900E	800S	850N	1650
		4800E	800S	850N	1650
		4700E	800S	850N	1650
		4600E	800S	850N	1650
		850N	4600E	5000E	400
		0	4500E	5000E	500
		800S	4600E	5000E	400

***Table 1: Survey Log***

### 2.2 PERSONNEL

Bruce Lavalley of Britt, Ontario conducted all the VLF EM data collection with Claudia Moraga also of Britt, Ontario being responsible for the GPS control and GPS waypoint collection.

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### **2.3 SURVEY SPECIFICATIONS**

The survey was conducted with a GSM-19 v7 VLF.

A total of 23.2 line kilometers of no grid VLF EM was performed between April 4<sup>th</sup> and April 6<sup>th</sup>, 2016. This consisted of 928 VLF EM sample locations taken at 25 meter intervals. Prior to each survey day a test of frequencies 24.0, 24.8 and 25.2 were taken. Frequency 24.8 (NLK) was not available throughout the survey period. Frequency 24.0 (NAA) was available on April 5<sup>th</sup> and 6<sup>th</sup>, with 25.2 MNL only being available on April 4<sup>th</sup> and 6<sup>th</sup>.

---

### 3. OVERVIEW OF SURVEY RESULTS

#### 3.1 SUMMARY INTERPRETATION

No strong VLF EM anomalies occur over the property; however one anomalous response does occur. This can be seen over lines 4600E through 4900E between 350S and 550S. This response is weak but visible in both frequencies. This may indicate a weakly conductive or disseminated mineralization.

I would recommend a MMI survey be performed over this anomaly. Do to the nature of the anomaly I would also recommend a grid cut be over this region with an IP survey performed. This would better assist in the characterization of the anomaly and potentially highlight further targets.



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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.Geo., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.

Larder Lake, ON  
May 3, 2016  
Canadian Exploration Services Ltd.

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## APPENDIX B

### VLF EM SURVEY

The frequency domain VLF electromagnetic survey is designed to measure both the vertical and horizontal in-phase (IP) and Quadrature (OP) components of the anomalous field from electrically conductive zones. The sources for VLF EM surveys are several powerful radio transmitters located around the world which generate EM radiation in the low frequency band of 15-25kHz. The signals created by these long-range communications and navigational systems may be used for surveying up to several thousand kilometres away from the transmitter. The quality of the incoming VLF signal can be monitored using the field strength. A field strength above 5pT will produce excellent quality results. Anything lower indicates a weak signal strength, and possibly lower data quality. A very low signal strength (<1pT) may indicate the radio station is down.

The EM field is planar and horizontal at large distances from the EM source. The two components, electric (E) and magnetic (H), created by the source field are orthogonal to each other. E lies in a vertical plane while H lies at right angles to the direction of propagation in a horizontal plane. In order to ensure good coupling, the strike of possible conductors should lie in the direction of the transmitter to allow the H vector to pass through the anomaly, in turn, creating a secondary EM field.

The VLF EM receiver has two orthogonal aeriels which are tuned to the frequency of the transmitting station. The direction of the source station is located by rotating the sensor around a vertical axis until a null position is found. The VLF EM survey procedure consists of taking measurements at stations along each line on the grid. The receiver is rotated about a horizontal axis, right angles to the traverse and the tilt recorded at the null position.

## APPENDIX C

### GSM 19



### Specifications

#### Overhauser Performance

- Resolution: 0.01 nT
- Relative Sensitivity: 0.02 nT
- Absolute Accuracy: 0.2nT
- Range: 20,000 to 120,000 nT
- Gradient Tolerance: Over 10,000nT/m
- Operating Temperature: -40°C to +60°C

#### Operation Modes

- Manual: Coordinates, time, date and reading stored automatically at min. 3 second interval.
- Base Station: Time, date and reading stored at 3 to 60 second intervals.
- Walking Mag: Time, date and reading stored at coordinates of fiducial.
- Remote Control: Optional remote control using RS-232 interface.
- Input/Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.

#### Operating Parameters

- Power Consumption: Only 2Ws per reading. Operates continuously for 45 hours on standby.
- Power Source: 12V 2.6Ah sealed lead acid battery standard, other batteries available
- Operating Temperature: -50°C to +60°C

#### Storage Capacity

- Manual Operation: 29,000 readings standard, with up to 116,000 optional. With 3 VLF stations: 12,000 standard and up to 48,000 optional.
- Base Station: 105,000 readings standard, with up to 419,000 optional (88 hours or 14 days uninterrupted operation with 3 sec. intervals)
- Gradiometer: 25,000 readings standard, with up to 100,000 optional. With 3 VLF stations: 12,000, with up to 45,000 optional.

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## Omnidirectional VLF

Performance Parameters: Resolution 0.5% and range to  $\pm 200\%$  of total field.  
Frequency 15 to 30 kHz.

Measured Parameters: Vertical in-phase & out-of-phase, 2 horizontal components, total field coordinates, date, and time.

Features: Up to 3 stations measured automatically, in-field data review, displays station field strength continuously, and tilt correction for up to  $\pm 10^\circ$  tilts.

Dimensions and Weights: 93 x 143 x 150mm and weighs only 1.0kg.

## Dimensions and Weights

Dimensions:

Console: 223 x 69 x 240mm

Sensor: 170 x 71mm diameter cylinder

Weight:

Console: 2.1kg

Sensor and Staff Assembly: 2.0kg

## Standard Components

GSM-19 magnetometer console, harness, battery charger, shipping case, sensor with cable, staff, instruction manual, data transfer cable and software.

## Taking Advantage of a “Quirk” of Physics

Overhauser effect magnetometers are essentially proton precession devices except that they produce an order-of magnitude greater sensitivity. These "supercharged" quantum magnetometers also deliver high absolute accuracy, rapid cycling (up to 5 readings / second), and exceptionally low power consumption.

The Overhauser effect occurs when a special liquid (with unpaired electrons) is combined with hydrogen atoms and then exposed to secondary polarization from a radio frequency (RF) magnetic field. The unpaired electrons transfer their stronger polarization to hydrogen atoms, thereby generating a strong precession signal-- that is ideal for very high-sensitivity total field measurement. In comparison with proton precession methods, RF signal generation also keeps power consumption to an absolute minimum and reduces noise (i.e. generating RF frequencies are well out of the bandwidth of the precession signal).

In addition, polarization and signal measurement can occur simultaneously - which enables faster, sequential measurements. This, in turn, facilitates advanced statistical averaging over the sampling period and/or increased cycling rates (i.e. sampling speeds).

**APPENDIX C**

**GARMIN GPS MAP 62S**



Physical & Performance:	
Unit dimensions, WxHxD:	2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH:	1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH:	160 x 240 pixels
Display type:	transflective, 65-K color TFT
Weight:	9.2 oz (260.1 g) with batteries
Battery:	2 AA batteries (not included); NiMH or Lithium recommended
Battery life:	20 hours
Waterproof:	yes (IPX7)
Floats:	no
High-sensitivity re-	yes

ceiver:	
Interface:	high-speed USB and NMEA 0183 compatible

Maps & Memory:	
Basemap:	yes
Preloaded maps:	no
Ability to add maps:	yes
Built-in memory:	1.7 GB
Accepts data cards:	microSD™ card (not included)
Waypoints/favorites/locations:	2000
Routes:	200
Track log:	10,000 points, 200 saved tracks

Features & Benefits:	
Automatic routing (turn by turn routing on roads):	yes (with optional mapping for detailed roads)
Electronic compass:	yes (tilt-compensated, 3-axis)
Touchscreen:	no
Barometric altimeter:	yes
Camera:	no
<a href="#">Geocaching-friendly:</a>	yes (paperless)
<a href="#">Custom maps compatible:</a>	yes
Photo navigation (navigate to geotagged photos):	yes
Outdoor GPS games:	no

Hunt/fish calendar:	yes
Sun and moon information:	yes
Tide tables:	yes
Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wirelessly with similar units):	yes
Picture viewer:	yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data):	yes

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

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## APPENDIX D

### LIST OF MAPS (IN MAP POCKET)

Posted profiled VLF EM plan maps (1:2500)

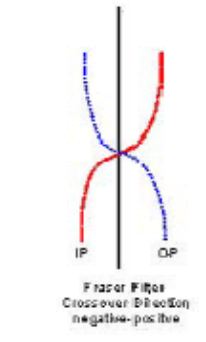
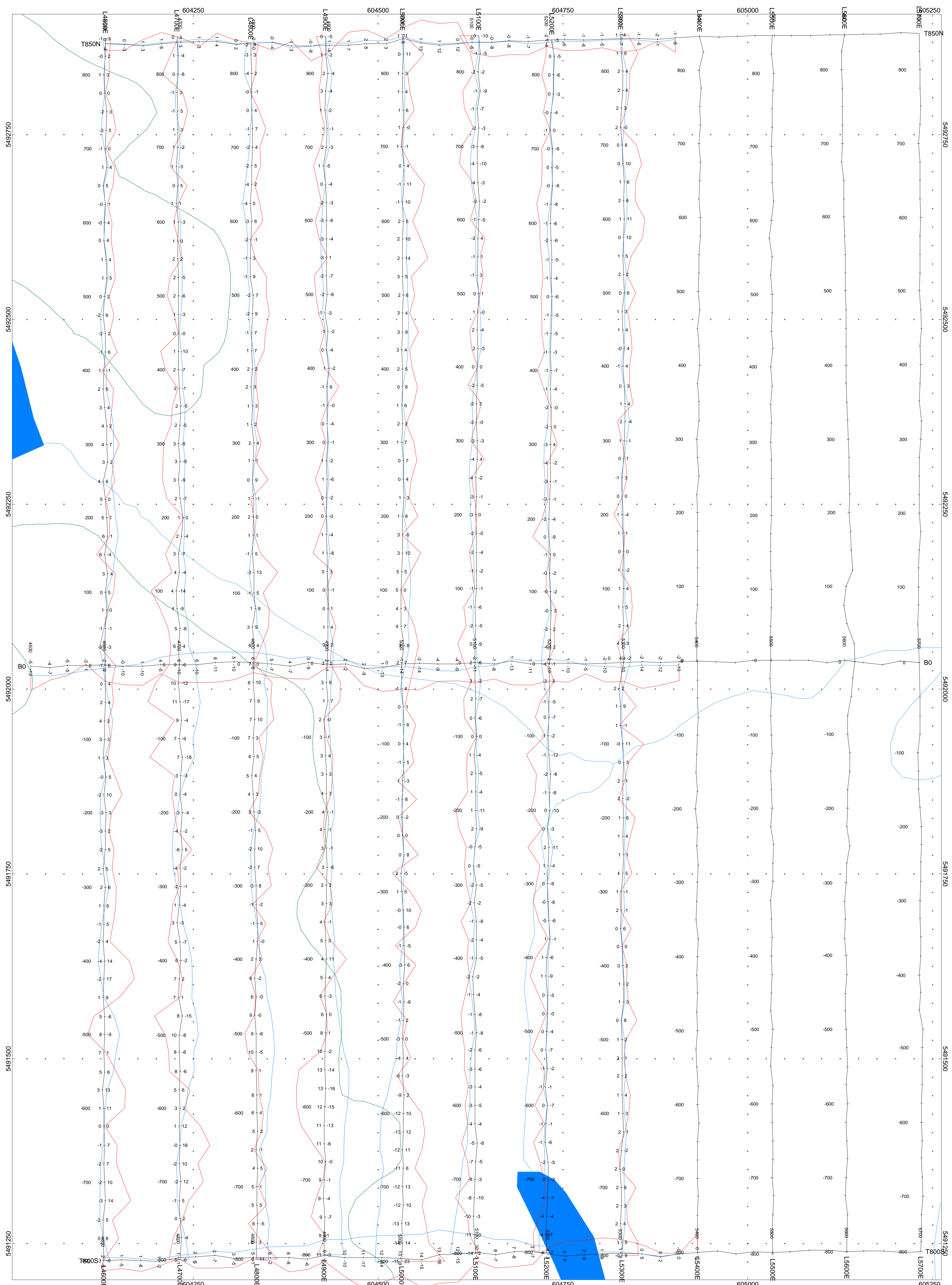
- 1) Q2181-TIGER-BRADETTE-VLF-NAA
- 2) Q2181-TIGER-BRADETTE-VLF-NAA

Grid Sketch on Claim Map (1:20000)

- 3) Q2181-TIGER-BRADETTE-GRID

**TOTAL MAPS = 3**





**TIGER GOLD EXPLORATION CORPORATION**

**BRADETTE PROPERTY**  
 Bradette Township, Ontario

VLF IN PHASE/OUT PHASE PROFILE PLAN MAP  
 24.0KHz NAA - CUTLER USA

In Phase: Posted Right/Bottom (Red)  
 Out Phase: Posted Left/Top (Blue)

Vertical Profile Scales: 1 %/mm  
 Contour Interval: 0, 5, 10, 15, 20, 25, 50, 100

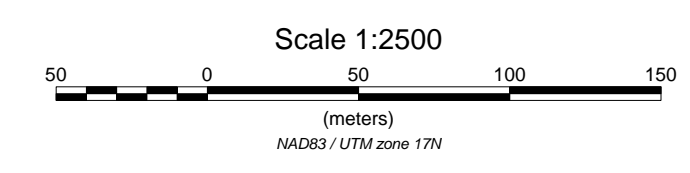
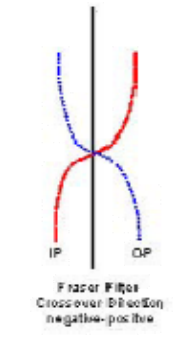
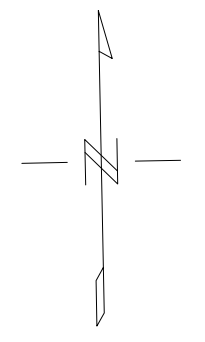
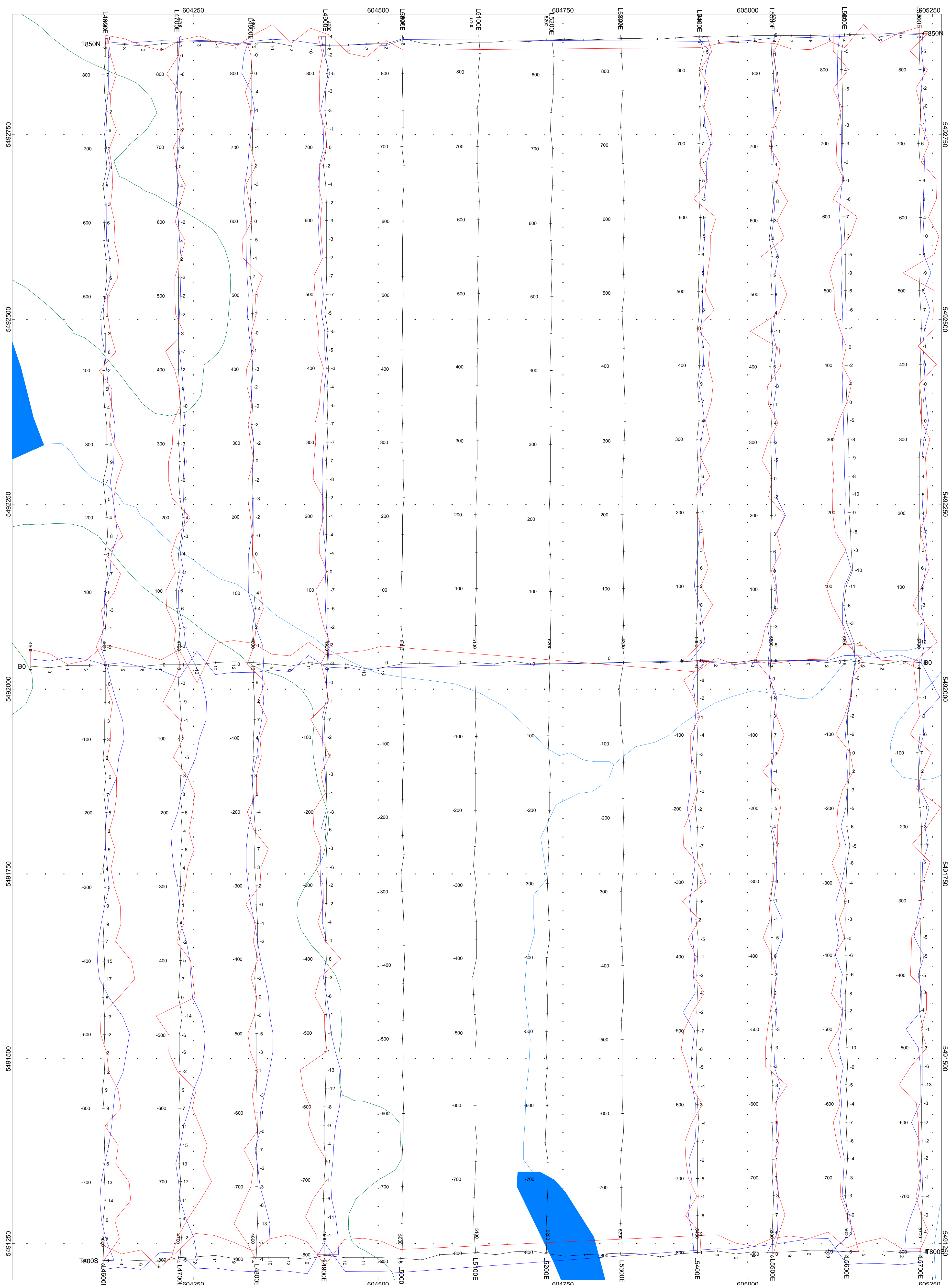
Station Separation: 12.5 meters  
 Posting Level: 0

GSM-19 OVERHAUSER VLF v7

Receiver Operated By: Bruce Lavalley  
 GPS Operated By: Claudia Moraga  
 Processed by: C. Jason Ploeger, P.Geo  
 Map Drawn By: C. Jason Ploeger, P.Geo  
 April 2016







**TIGER GOLD EXPLORATION CORPORATION**

**BRADETTE PROPERTY  
Bradette Township, Ontario**

VLF IN PHASE/OUT PHASE PROFILE PLAN MAP  
25.2kHz NLK - LaMoure USA

In Phase: Posted Right/Bottom (Red)  
Out Phase: Posted Left/Top (Blue)

Vertical Profile Scales: 1 %/mm  
Contour Interval: 0, 5, 10, 15, 20, 25, 50, 100

Station Separation: 25 meters  
Posting Level: 0

GSM-19 OVERHAUSER VLF v7

Receiver Operated By: Bruce Lavalley  
GPS Operated By: Claudia Moraga  
Processed By: C. Jason Ploeger, P.Geo  
Map Drawn By: C. Jason Ploeger, P.Geo  
April 2016





Date / Time of Issue: Fri Jun 13 14:19:45 EDT 2014

TOWNSHIP / AREA  
BRADETTE

PLAN  
G-3479

ADMINISTRATIVE DISTRICTS / DIVISIONS

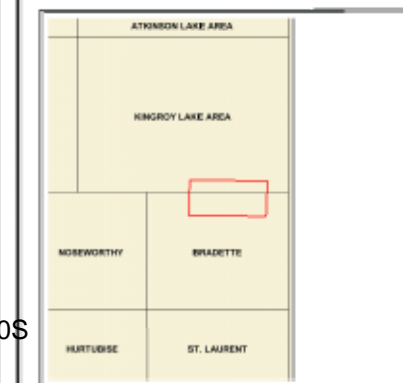
Mining Division: Larder Lake  
Land Titles/Registry Division: COCHRANE  
Ministry of Natural Resources District: COCHRANE

TOPOGRAPHIC

- Administrative Boundary
- Township
- Concession Line
- Provincial Park
- Indian Reserve
- G.M. P.A. File
- Contour
- Mine Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Liquor
- Town

Land Tenure

- Freehold/Lease:**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold/Lease:**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- License of Occupation:**
  - Open Pit Symbol
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for mining)
  - Water Power Lease Agreement

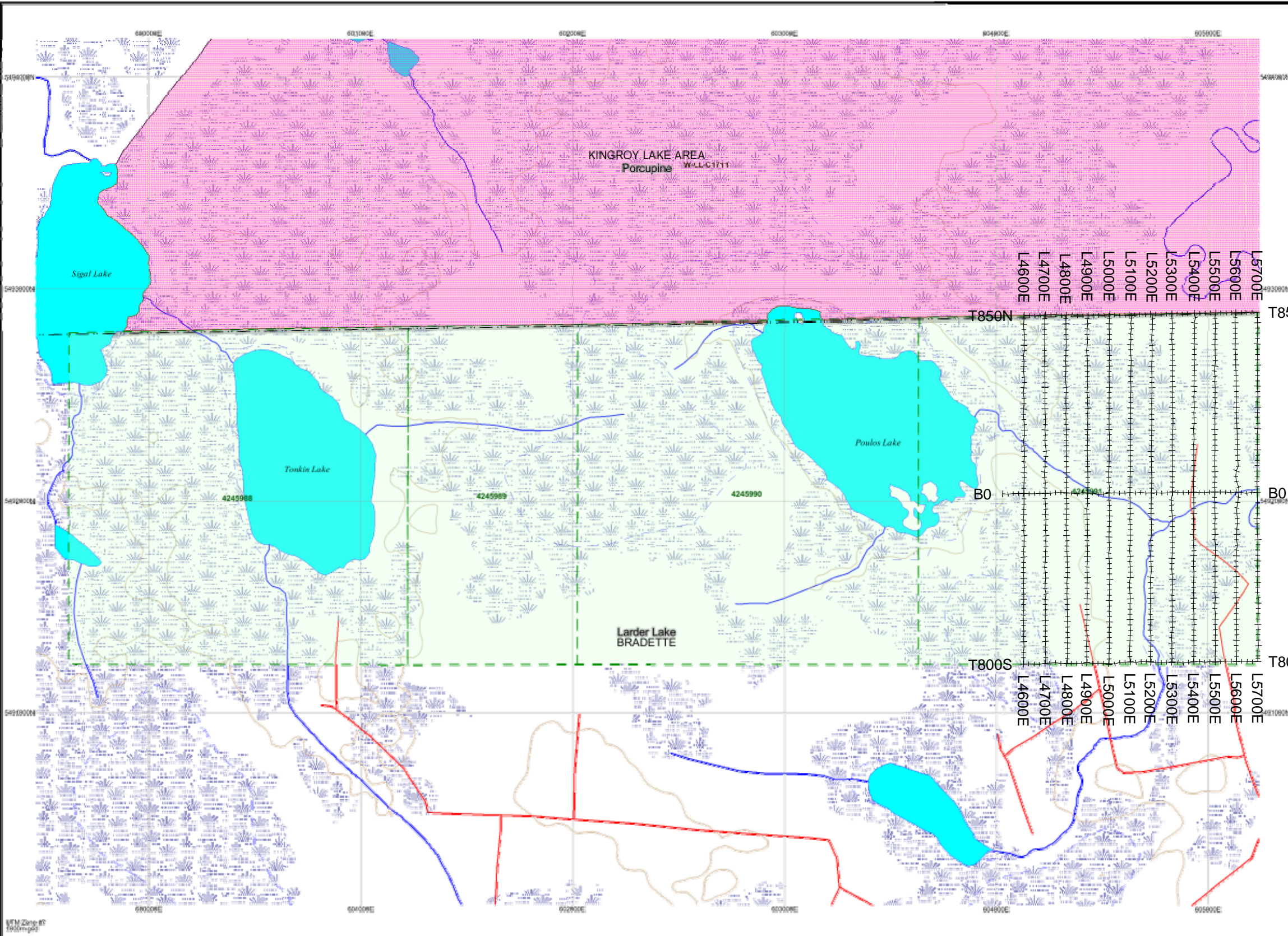


- LAND TENURE WITHDRAWALS**
- 1234 Area Withdrawn from Disposition
  - 1234567 Mining Claim
  - 1234567 Filed Only Mining Claims
  - 1234 Area Withdrawn from Disposition
  - Wm Mining Claim Withdrawal
  - Wm Surface Rights Only Withdrawal
  - Wm Mining Rights Only Withdrawal
  - Wm Order In Council Withdrawal Type
  - Wm Surface Rights Only Withdrawal
  - Wm Mining Rights Only Withdrawal
  - No IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
WELL-C1711	Wm	Feb 28, 2004	ca:brf1711/wm/meda.gov.on.ca/min/mbs/lands/lf/ps/w200404_g.asp?WELL-2004-04-CM1-MAS-withdrawal-5-35-Mina-Aut-REG-1999-280254 Boundary generally depicts area withdrawn. Click to view actual area. /ca-



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

**General Information and Limitations**  
 Contact Information:  
 Provincial Mining Recorders' Office  
 Wildcat Green Mill Centre 930 Ramsey Lake Road  
 Sudbury ON P2E 0S5  
 Home Page: [www.mdn.gov.on.ca/MNDMMINES/LANDS/infmapge.htm](http://www.mdn.gov.on.ca/MNDMMINES/LANDS/infmapge.htm)

Toll Free  
 Tel: 1 (800) 415-9585 ext 514  
 Fax: 1 (877) 670-1666

Map Datum: NAD 83  
 Projection: UTM (5 degree)  
 Topographic Data Source: Land Information Ontario  
 Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to staked mining claims may not be illustrated.