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**CANADIAN EXPLORATION SERVICES LTD**

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# **KNIGHTSBRIDGE EXPLORATION LTD.**

## **Magnetometer Survey Over the**

### **North Wind Property**

### **Connaught Township, Ontario**

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **North Wind Property**.

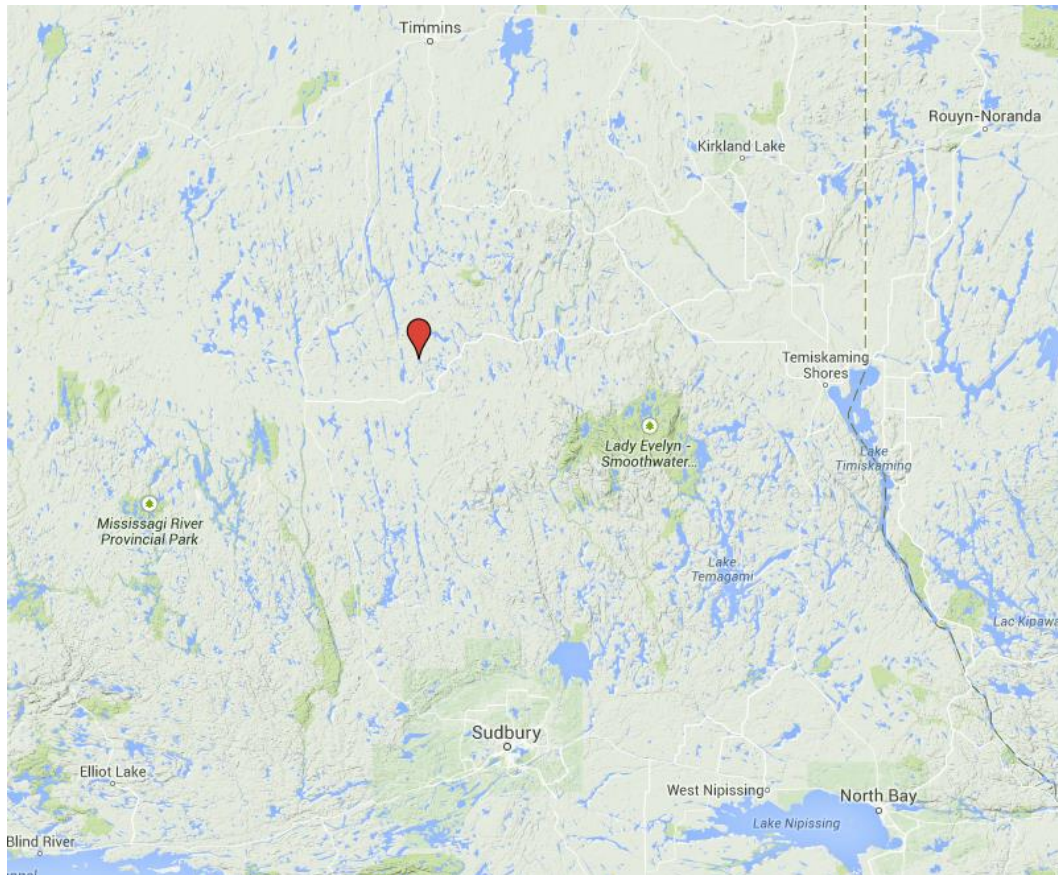
### 1.2 CLIENT

Knightsbridge Exploration Ltd

P.O. Box 219  
Larder Lake, Ontario  
P0K 1L0

### 1.3 LOCATION

The North Wind Property is located approximately 10 km northwest of Shining Tree, Ontario. The survey area covers mining claims numbered 4270317, 4270318 and 4217075, located in Connaught Township, within the Larder Lake Mining Division.



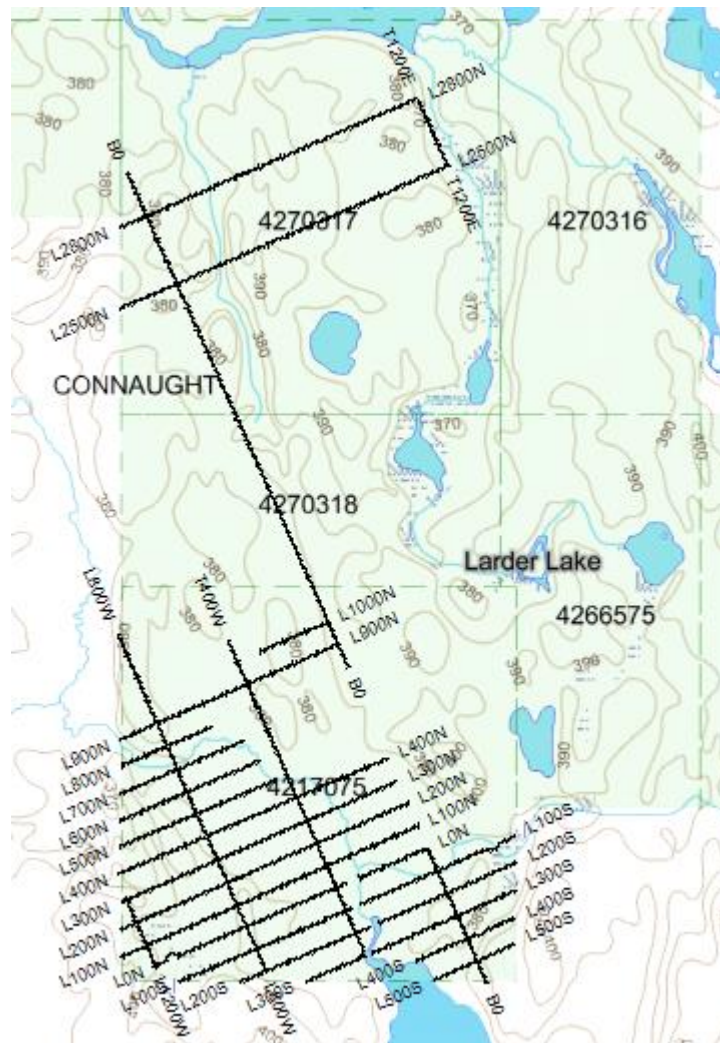
***Figure 1: Location of the North Wind Property***

## 1.4 ACCESS

Access to the property was attained with a 4x4 truck via highway 560. Approximately 16km west of the town of Shining Tree, Ontario, a forestry access road was travelled north for an additional 19 kilometers to a point where the survey area crossed the road.

## 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 12.5m in front of the magnetometer operator. GPS waypoints and magnetic samples were taken every 12.5m along these controlled traverses. The GPS used was a Garmin GPSMAP 62s.



**Figure 2: Claim Map with North Wind Property Traverses**

## 2. SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description	Line	Min Extent	Max Extent	Total Survey (m)
May 16, 2016	Locate and clear access. Begin magnetometer survey.	0N	300W	0E	300
		100S	337.5W	350E	687.5
		200S	300W	312.5E	612.5
		300S	375W	262.5E	637.5
		400S	225W	212.5E	437.5
		500S	187.5W	175E	362.5
		0E	600S	0N	600
May 17, 2016	Continue magnetometer survey.	200N	1275W	0E	1275
		100N	1325W	0E	1325
		0N	1200W	350W	850
		100S	1137.5W	375W	762.5
		200S	912.5W	337.5W	575
		300S	662.5W	412.5W	250
		400W	300S	100N	400
		1200W	0S	300N	300
May 18, 2016	Continue magnetometer survey.	2800N	112.5W	1200E	1312.5
		2500N	250W	1200E	1450
		1200E	2500N	2800N	300
		0E	800N	3000N	2200
May 19, 2016	Continue magnetometer survey.	900N	962.5W	250W	712.5
		800N	1000W	600W	400
		700N	1050W	500W	550
		600N	1100W	475W	625
		500N	1137.5W	450W	687.5
		400N	1187.5W	0E	1187.5
		300N	1225W	0E	1225
May 20, 2016	Complete the magnetometer survey traverses.	1000N	300W	0E	300
		900N	237.5W	0E	237.5
		800W	200S	1300N	1500

---

<b>Date</b>	<b>Description</b>	<b>Line</b>	<b>Min Extent</b>	<b>Max Extent</b>	<b>Total Survey (m)</b>
		400W	100N	1100N	1000

**Table 1: Survey Log**

## **2.2 PERSONNEL**

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

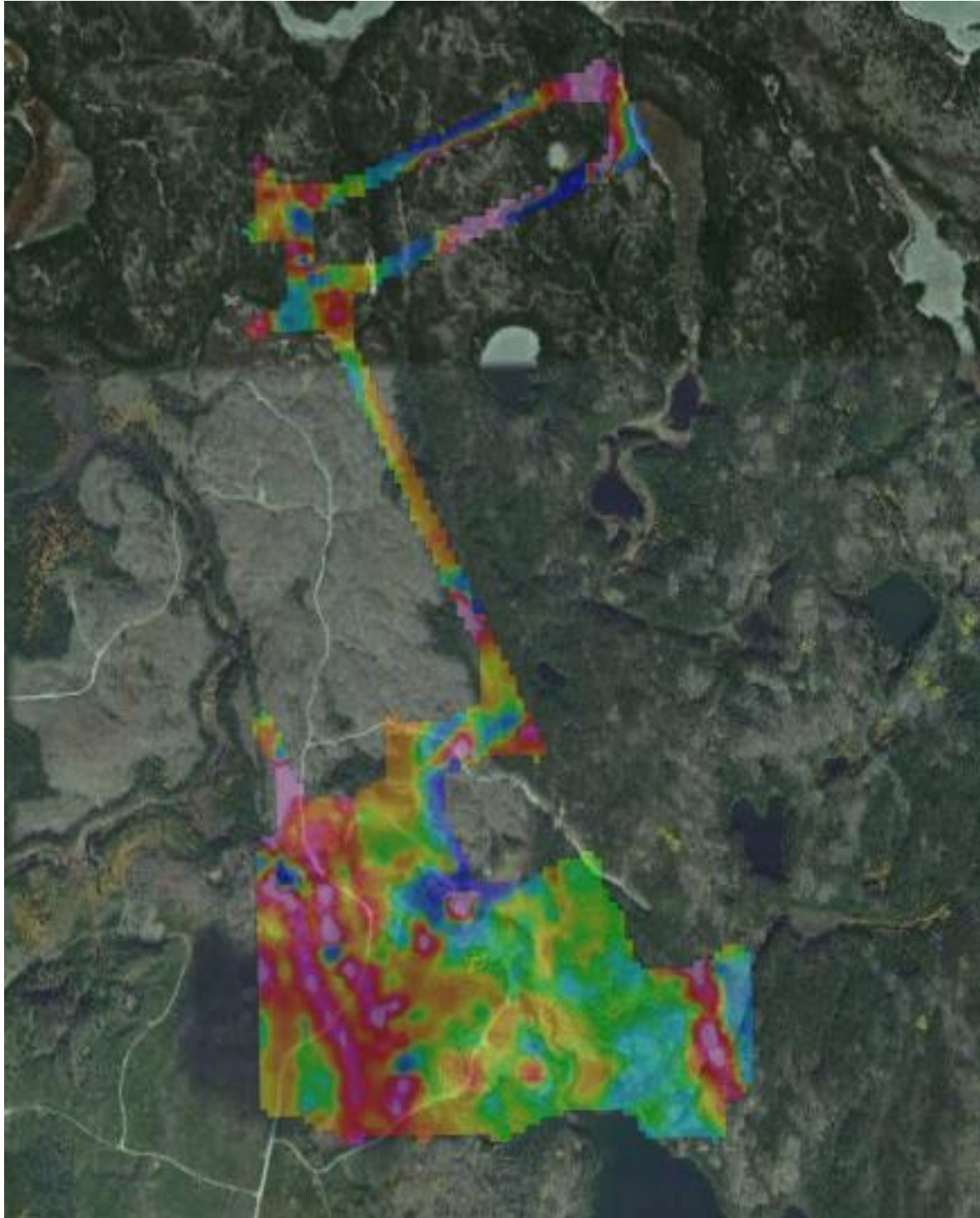
## **2.3 SURVEY SPECIFICATIONS**

The survey was conducted with a GSM-19 v7 Overhauser magnetometer with a second GSM-19 magnetometer in base station mode for diurnal correction.

A total of 23.0625 line kilometers of Magnetometer was read over the North Wind Property between May 16<sup>th</sup> and 20<sup>th</sup>, 2016. This consisted of 1845 magnetometer samples taken at a 12.5m sample interval.

### 3. OVERVIEW OF SURVEY RESULTS

#### 3.1 SUMMARY INTERPRETATION



***Figure 3: Google Image with Magnetic Overlay***



The magnetic survey indicates the presence of a three magnetically high anomalous regions. These three regions appear unconstrained and may be associated with each other. These anomalies can be seen at 500N and 400W, 900N and 275W, 0E and 1325N and the east ends of lines 2500N and 2800N. the strength of these anomalies indicate a possible iron formation or a magnetite rich intrusive.

The magnetic survey also indicates the presence of numerous north-northwest trending linear magnetic features. The trend and signature of these features resembles that which would be expected from a regional diabase cluster, similar to the Matachewan Diabase.

These results should be combined with the historic results to determine the extent of the anomalies. More magnetometer work is also recommended to constrain the anomalous areas. The magnetic highs should also be systematically explored through prospecting. If prospecting results are inconclusive, a grid should be cut with IP and MMI being recommended.

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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 **Knightsbridge Exploration Ltd.**
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  
June 2, 2016

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## **APPENDIX B**

### **THEORETICAL BASIS AND SURVEY PROCEDURES**

#### **TOTAL FIELD MAGNETIC SURVEY**

Base station corrected Total Field Magnetic surveying is conducted using at least two synchronized magnetometers of identical type. One magnetometer unit is set in a fixed position in a region of stable geomagnetic gradient, and away from possible cultural effects (i.e. moving vehicles) to monitor and correct for daily diurnal drift. This magnetometer, given the term 'base station', stores the time, date and total field measurement at fixed time intervals over the survey day. The second, remote mobile unit stores the coordinates, time, date, and the total field measurements simultaneously. The procedure consists of taking total magnetic measurements of the Earth's field at stations, along individual profiles, including Tie and Base lines. A 2 meter staff is used to mount the sensor, in order to optimally minimize localized near-surface geologic noise. At the end of a survey day, the mobile and base-station units are linked, via RS-232 ports, for diurnal drift and other magnetic activity (ionospheric and spheric) corrections using internal software.

For the gradiometer application, two identical sensors are mounted vertically at the ends of a rigid fiberglass tube. The centers of the coils are spaced a fixed distance apart (0.5 to 1.0m). The two coils are then read simultaneously, which alleviates the need to correct the gradient readings for diurnal variations, to measure the gradient of the total magnetic field.

## 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 receiver:	yes
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
<b>Features &amp; Benefits:</b>	
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
<u>Geocaching-friendly:</u>	yes (paperless)
<u>Custom maps compatible:</u>	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 contoured TFM plan map (1:5000)

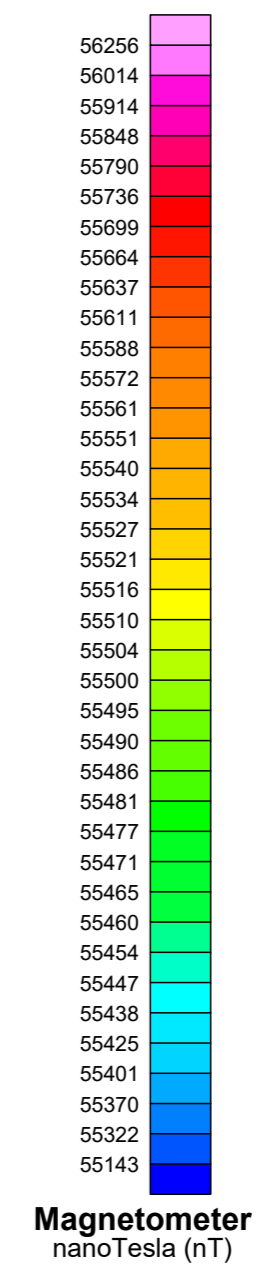
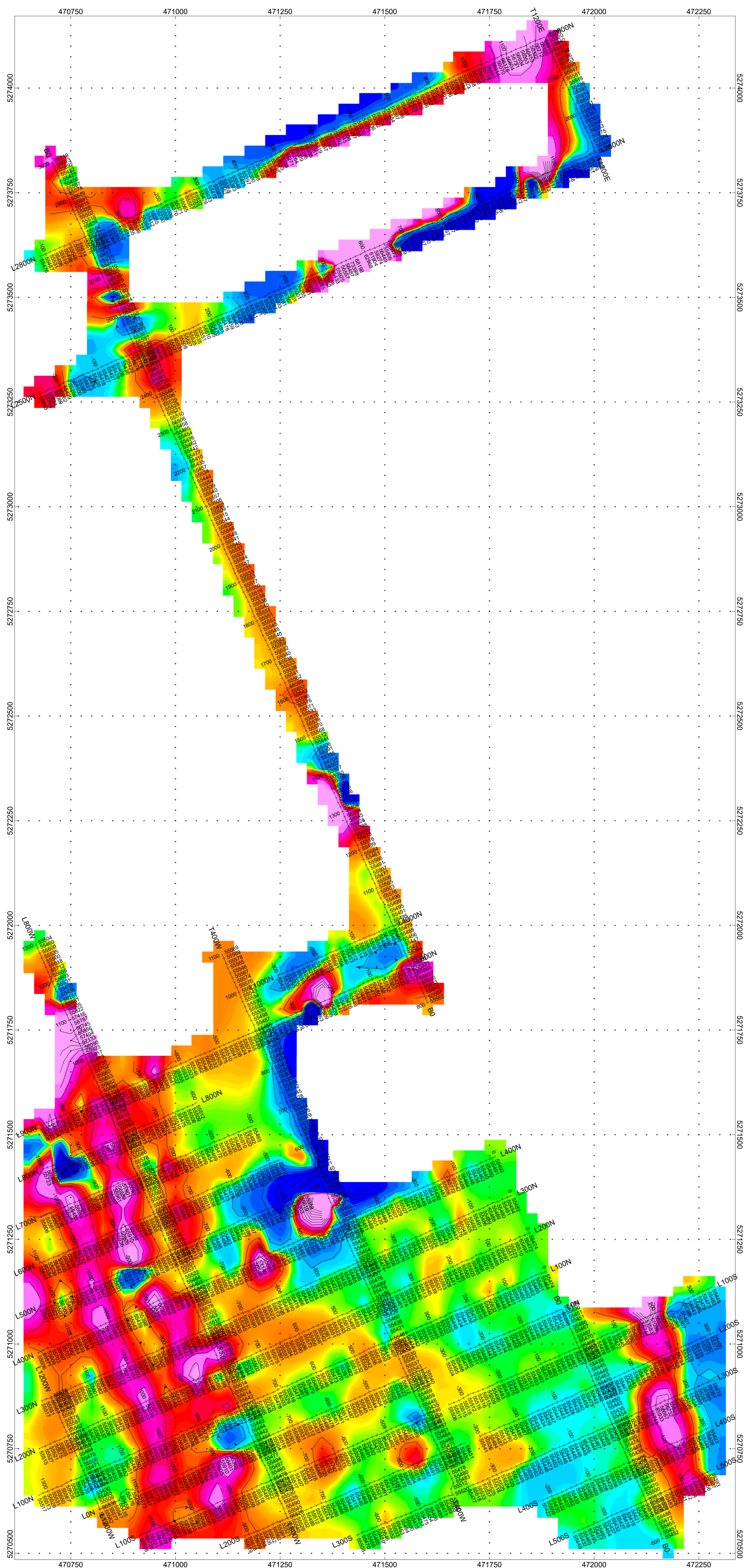
1) Q2196-KNIGHTSBRIDGE-NORTH WIND-MAG-CONT

Claim Map with Magnetic Traverses (1:20000)

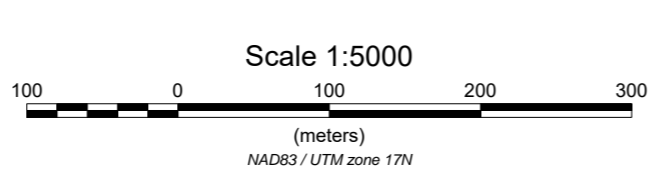
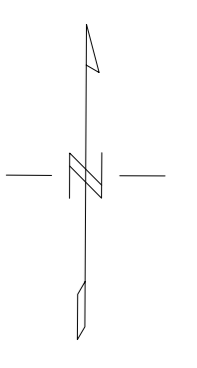
2) Q2196-KNIGHTSBRIDGE-NORTH WIND-TRAVERSE

**TOTAL MAPS = 2**





Magnetometer  
nanoTesla (nT)



**KNIGHTSBRIDGE EXPLORATION LTD.**

**NORTH WIND PROPERTY**  
Connaught Township, Ontario

TOTAL FIELD MAGNETIC CONTOURED PLAN MAP  
Base Station Corrected

Posting Level: 0nT  
Field Inclination/Declination: 74degN/12degW  
Station Separation: 12.5 meters  
Total Field Magnetic Contours: 200nT

GSM-19 OVERHAUSER MAGNETOMETER v7

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

Drawing : Q2196-KNIGHTSBRIDGE-NORTH WIND-MAG-CONT

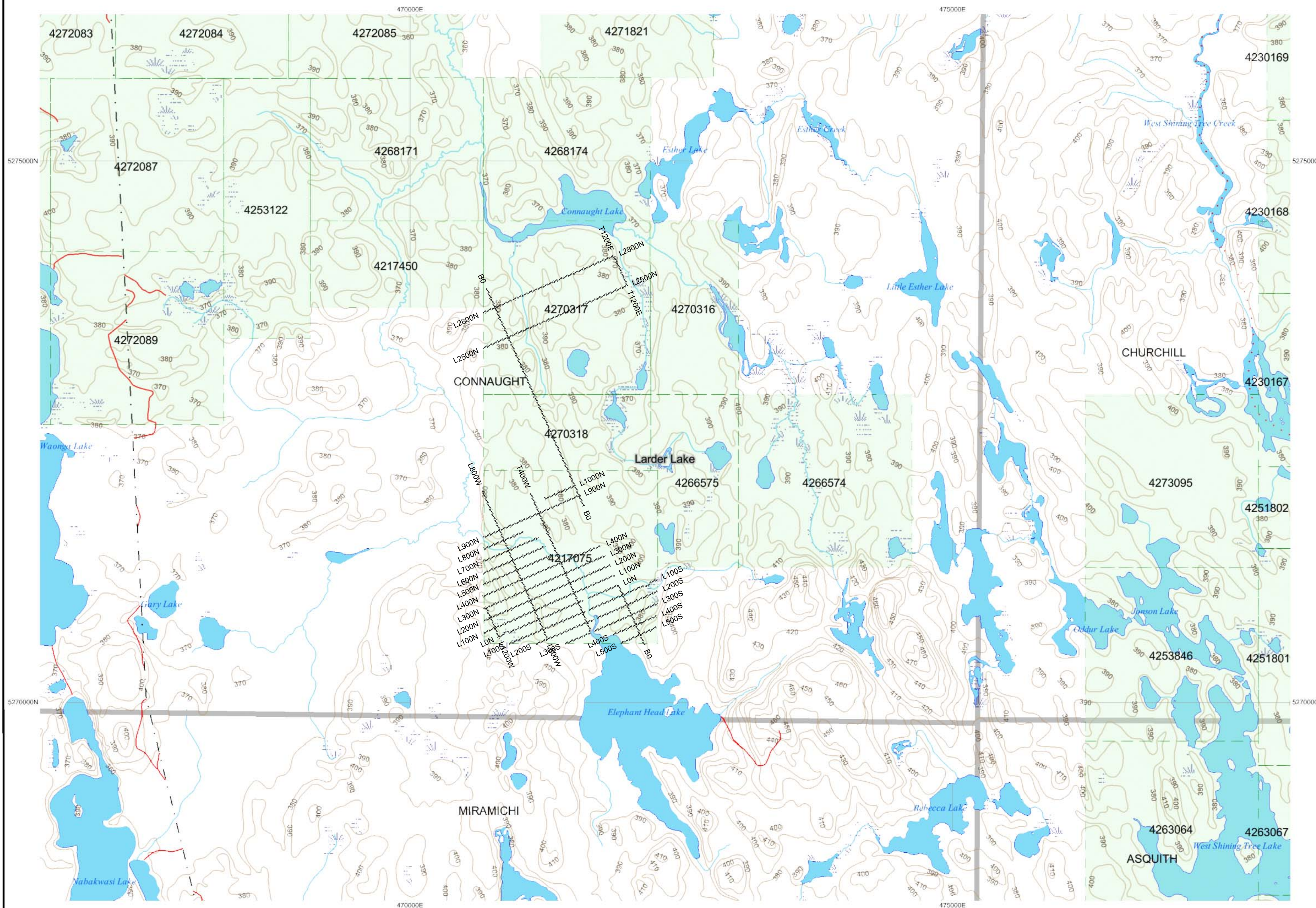
Date / Time of Issue: Wed Feb 05 10:20:16 EST 2014

**TOWNSHIP / AREA**  
CONNAUGHT

**PLAN**  
G-0966

**ADMINISTRATIVE DISTRICTS / DIVISIONS**

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

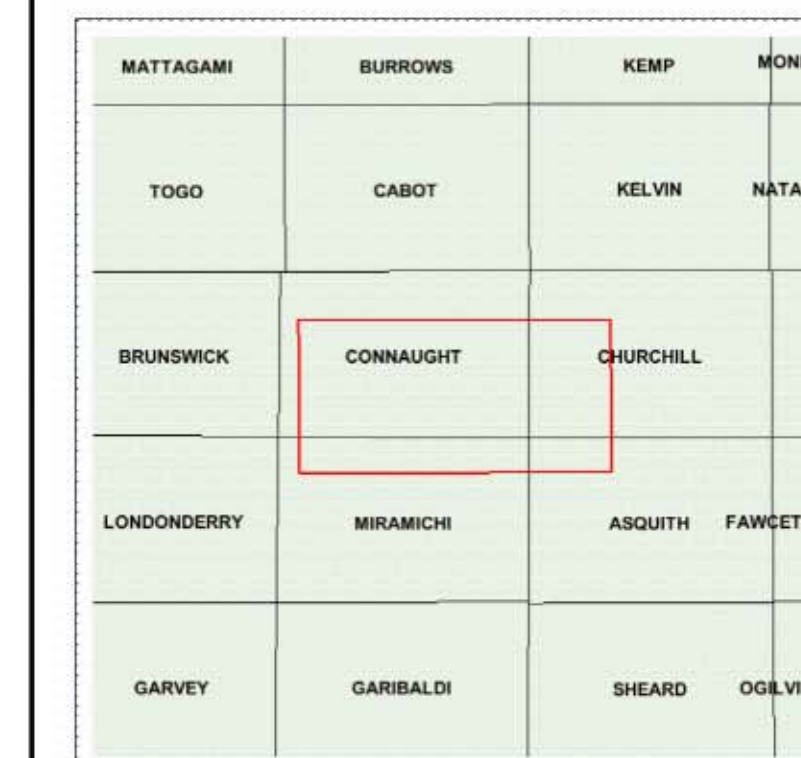


**TOPOGRAPHIC**

- Administrative Boundaries
- Township
- Concession Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

**Land Tenure**

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement



**LAND TENURE WITHDRAWALS**

- Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types
  - Wsm Surface And Mining Rights Withdrawn
  - Ws Surface Rights Only Withdrawn
  - Wm Mining Rights Only Withdrawn
  - Order In Council Withdrawal Types
  - W'sm Surface And Mining Rights Withdrawn
  - W's Surface Rights Only Withdrawn
  - W'm Mining Rights Only Withdrawn

**IMPORTANT NOTICES**

- Important Notices



UTM Zone 17  
5000m grid

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  
Willet Green Miller Centre 833 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: [www.mndm.gov.on.ca/MNDM/MINES/LANDS/mismppge.htm](http://www.mndm.gov.on.ca/MNDM/MINES/LANDS/mismppge.htm)

Toll Free:  
Tel: 1 (888) 415-9845 ext 5742  
Fax: 1 (877) 670-1444

Map Datum: NAD 83  
Projection: UTM 16 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 stake mining claims may not be illustrated.