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CANADIAN EXPLORATION SERVICES LTD

ASHLEY GOLD MINES LIMITED

Q2433 - Powell Property Magnetometer Survey

C Jason Ploeger, P.Geo. – September 26, 2017



Abstract

CXS was contracted by Ashley Gold Mines Ltd to perform 1 day magnetometer survey over its Powell Township Property.

The survey indicated the presence of three magnetic units. The crew also discovered a historic exploration shaft and pit. Both of these features were located along the same magnetic trend.

ASHLEY GOLD MINES LIMITED

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1. SURVEY DETAILS

1.1 PROJECT NAME

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

1.2 CLIENT

Ashley Gold Mines Limited 14579 Government Rd. Larder Lake, Ontario P0K1L0

1.3 LOCATION

The Powell Property is located in Powell Township approximately 7 km north-north-west of Matachewan, Ontario. The survey area covers a portion of mining claims 4225519, 4225518, 4225517 and 4259498 in Powell Township, within the Larder Lake Mining Division.

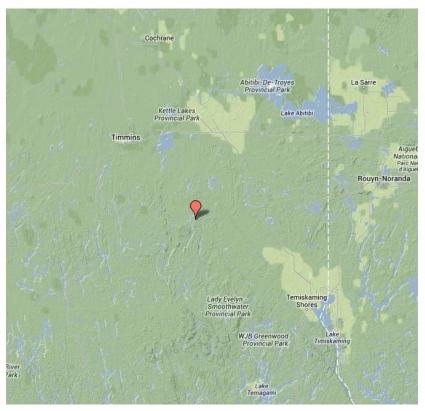


Figure 1: Location of the Powell Property





1.1 Access

Access to the property was attained with a 4x4 truck via highway 66 approximately 3km west of Matachewan, continuing by highway 566 approximately 6km north. At this point, an access road heads northwest, where the survey area can be found.

1.2 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, magnetic samples were taken every 12.5m along these controlled traverses. The GPS used was a Garmin GPS Map 62S.

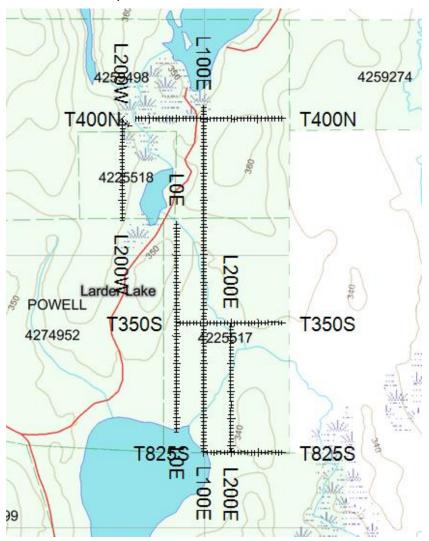


Figure 2: Claim Map with the Powell Traverses



2. SURVEY WORK UNDRTAKEN

2.1 SURVEY LOG

			Min	Max	Total Survey
Date	Description	Line	Extent	Extent	(m)
September 14,	Locate survey area and conduct				
2017	survey.	200W	25N	400N	375
		0E	750S	25N	775
		100E	825S	450N	1275
		200E	825S	350S	475
		400N	200W	400E	600
		350S	0	400E	400
		825S	100E	400E	300

Table 1: Survey Log

2.2 PERSONNEL

Claudia Moraga of Britt, Ontario conducted all the magnetic data collection while Bruce Lavalley, also of Britt, Ontario was 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 4.2 line kilometers of magnetometer was read over the Powell Property on September 14, 2017. This consisted of 336 magnetometer samples taken at a 12.5m sample interval.





3. OVERVIEW OF SURVEY RESULTS

3.1 SUMMARY

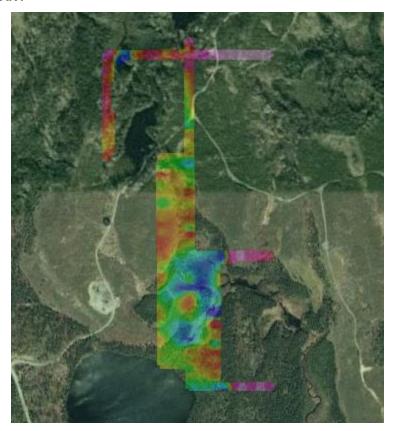


Figure 3: Magnetometer Plan on Google Earth

No culture was noted through the survey area that would influence the results of the magnetic survey. Historic workings were however noted. A shaft or deep pit was noted at 523002E and 5316106N or 12.5N on line 100E and a pit located at 522897E and 5316052N or 50S on line 0E.

The magnetic signature of the survey indicates the presence of three different magnetic units.

The northern unit appears to have a slightly raised signature as compared to the other two signatures. Not much of this signature is visible as little coverage exists over this region.

The central signature appears as a moderate increase in magnetic signature. This appears to be an overprint, which may indicate it is an intrusive such as a porphyry.

The signature of the central unit appears to become more subdued as it strikes south. This may indicate that it plunges below another unit. This may indicate the presence of a unit such as a sedimentary unit

Overprinting the signature on the east side of the survey area appears an intense





magnetic signature. This signature appears as a north south linear magnetic feature. This resembles that which would be expected of the Matachewan Diabase Dikes.

The historic workings appear to fall on a contact area between a small 100nT boundary. This would fall along the transition of units 2 and 3. This may indicate that the sedimentary package is older and may represent the Temiskaming sediments. The indication of shafts and pits may indicate that mineralization was historically noted along this contact.

I would recommend prospecting the shaft and pit area to determine the reasoning behind the pits and shaft. These both appear on the magnetic transition, therefore I would also prospect along the strike of the transition.

If mineralization is found, I would recommend a grid be cut and IP survey be performed on the grid.



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 Inc. of Larder Lake, Ontario.
- 2. I am a Practicing 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 **Ashley Gold Mines Limited.**
- 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 Inc.

> Larder Lake, ON September 26, 2017





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 sferic) 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.





Omnidirectional VLF

Performance Parameters: Resolution 0.5% and range to ±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 ±10° 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).





 The unique Overhauser unit blends physics, data quality, operational efficiency, system design and options into an instrumentation package that ... exceeds proton precession and matches costlier optically pumped cesium capabilities



APPENDIX C

GARMIN GPS MAP 62S



Physical & Performance	e:			
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 recom- mended			
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/loc	cations:	2000			
Routes:		200			
Track log:		10,000 points, 200 saved tracks			
Features & Benefits:					
Automatic routing (turn	by turn routing	yes (with optional mapping for detailed			
on roads):		roads)			
Electronic compass:		yes (tilt-compensated, 3-axis)			
Touchscreen:		no			
Barometric altimeter:		yes			
Camera:		no			
Geocaching-friendly:		yes (paperless)			
Custom maps compatil	ole:	yes			
Photo navigation (navig	gate to ge-	yes			
otagged photos):					
Outdoor GPS games:		no			
Hunt/fish calendar:		yes			
Sun and moon informa	tion:	yes			





Tide tables:	yes
Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wire- lessly 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



APPENDIX D

LIST OF MAPS (IN MAP POCKET)

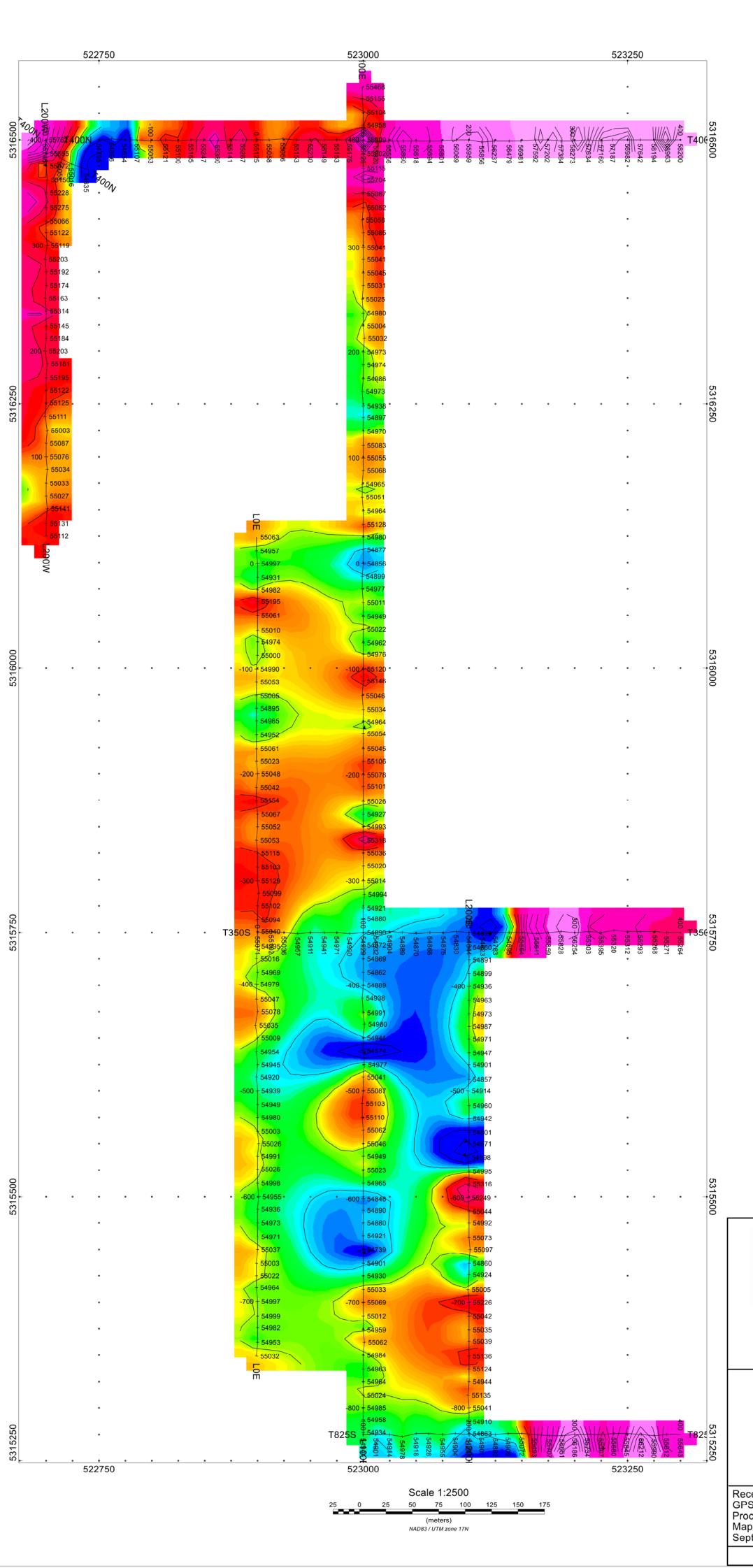
Magnetometer Plan Map (1:2500)

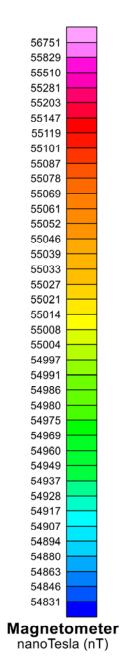
1) Q2433-Ashley-Powell-Mag-Cont

Claim Map with Magnetic Traverses (1:20000)

2) Q2433-Ashley-Powell-Traverses

TOTAL MAPS = 2







POWELL PROPERTY Powell Township, Ontario

TOTAL FIELD MAGNETIC CONTOURED PLAN MAP Base Station Corrected

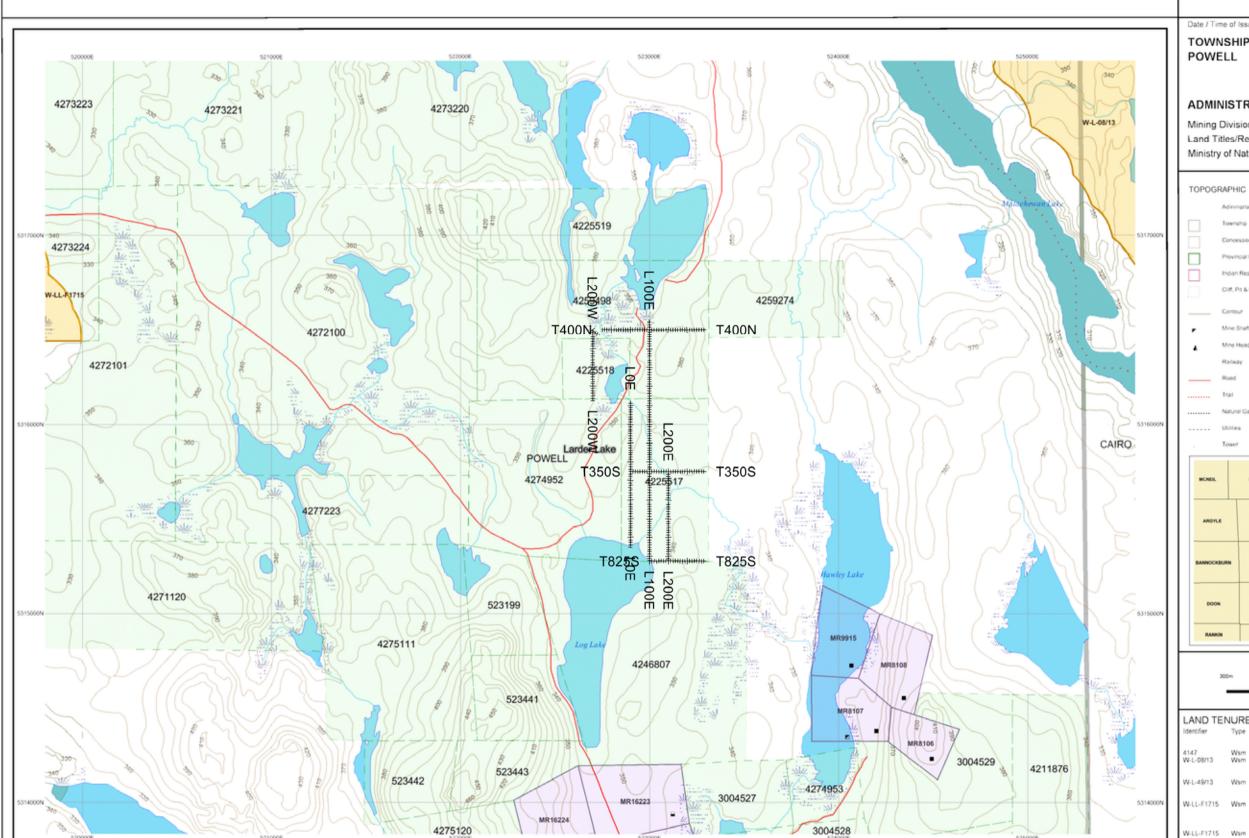
Posting Level: 0nT
Field Inclination/Declination: 74degN/12degW
Station Seperation: 12.5 meters
Total Field Magnetic Contours:

GSM-19 OVERHAUSER MAGNETOMETER v7

Receiver Operated By: Claudia Moraga GPS Operated By: Bruce Lavalley Processed by: C Jason Ploeger, P.Geo. Map Drawn By: C Jason Ploeger, P.Geo. September 2017



Drawing : Q2433-Ashley-Powell-Mag-Cont



Date / Time of Issue: Thu Sep 25 14:02:16 EDT 2014 TOWNSHIP / AREA

PLAN G-3218

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Land Titles/Registry Division Ministry of Natural Resources District Larder Lake TIMISKAMING KIRKLAND LAKE

Surface And Mining Rights



Surface Rights Only Mining Rights Only Leasehold Paters Surface And Mining Rights Uses Not Specified Surface And Mining Rights ٠ Surface Rights Only ÷ Mining Rights Only LEP Land Use Permit Order In Council (Not open for staking) Water Power Lease Agreemen Mining Claim Filed Only Mining Claims 1234567 LAND TENURE WITHDRAWALS Mining Acts Withdrawal Types Mining Acts Withcrawal Types Surface And Mining Rights Withdrawn Surface Rights Only Withdrawn Mining Rights Only Withdrawn Order In Gouncil Withdrawal Types Surface And Mining Rights Withdrawn Surface Rights Only Withdrawn Mining Rights Only Withdrawn IMPORTANT NOTICES No Scale 1 20000

LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

FLOODING ELEVATION 870 FILE: 12299 VOL 2 L.O. 7601 -(a frefe!* http://www.moi.mndm.gov.on.calmines/lands/withreop/orders2013/w/813.pdf ">W-L-0813 MSS withdrawal S 35 Mining Act RSO 1999. March 11, 2013 Click to link to withdrawal order-(a>-(a frefe!* http://www.moi.mndm.gov.on.calmines/lands/withreop/orders2013/w/4913.pdf ">W-L-08113 M-S withdrawal S 35 Mining Act RSO 1999. June 18, 2013 Click to link to withdrawal order-(a>-(a frefe!* http://www.moi.mndm.gov.on.calmines/lands/wiceposeas/2002/orders/wif1715-02_e html "> W-LL-F1715-02 ONT MSS withdrawal S 35 Mining Act RSO 1999. 12702/02 Boundary generally depicts area withdrawn Click to view actual area withdrawn -(a)>-(a frefe!* http://www.moi.mndm.gov.on.calmines/lands/silv/eg/poreas/2002/orders/wif1715-02_e html:"> W-LL-F1715-02 calmines/lands/silv/eg/poreas/2002/orders/wif1715-02_e html:"> W-LL-F1715-02 calmines/lands/silv/eg/poreas/2002/orders/wif1715-02_e html:"> W-LL-F1715-02 W-L-08/13 W-LL-F1715 Wsm Feb 12, 2002

<a rese** ntp //www.mci mom gov.co. calmines/lands/livieg/boreast/2002orders/lwif1715-02_e html*> W-LL-F1715-02 ONT MSS withdrawai S.35 Mining Act RSO 1999, 12/02/02 Boundary generally depicts area withdrawn Click to view actual area withdrawn <a/>
f>.

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

General Information
Contact Information
Provincial Mining Recorders' Office
Provincial Mining Recorders' Office
Milet Green Milet Centre 933 Ramsey Lake Road
Milet Green Milet Centre 933 Ramsey Lake Road Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mismnpge.htm

Toll Free Map Datum NAD 83.
Tel 1 (888) 415-9845 ext 574-Projection UTM (6 degree)
Fax: 1 (877) 670-1444 Topographic Data Source: Land Information Ontario Mining Land Tierute Source: Provincial Mining Recorders' Office

his 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.