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PALISADE RESOURCES CORP. **Q2192 – Lucky Strike Property- Monocle Lake VLF Survey** C Jason Ploeger, P.Geo. – April 19, 2017



Abstract

CXS was contracted to perform VLF survey over the Lucky Strike Property – Monocle Lake Area, for Ashley Gold Mines Limited. This survey was performed in May 2016 and covered a portion of the Lucky strike Property. Approximately 1 kilometer of no grid VLF was performed. The survey outlined two crossovers striking in a northerly direction.

ASHLEY GOLD MINES LIMITED

Q2192 – Lucky Strike Property – Monocle Area VLF Survey

C Jason Ploeger, P.Geo. - April 19, 2017





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1. SURVEY DETAILS

1.1 PROJECT NAME

This project is known as the **Lucky Strike Property**.

1.1 CLIENT

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

1.2 LOCATION

The Lucky Strike Property is located approximately 9km north-east of Larder Lake, Ontario. The survey area is located on a portion of mining claim 4284061 and 4225514, located in McVittie Township, within the Larder Lake Mining Division.

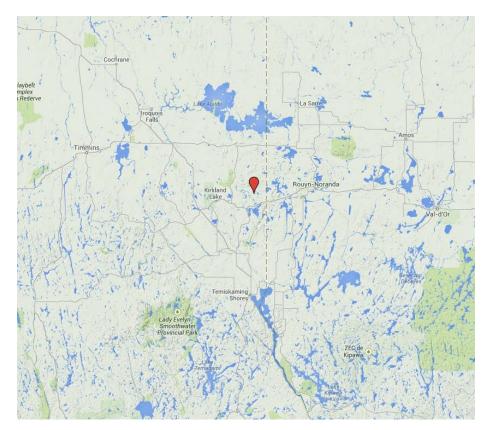


Figure 1: Location of the Lucky Strike Property - Monocle Area



1.1 Access

Access to the property was attained with a 4x4 truck via the Larder Station Road which is located just east of Larder Lake off of provincial highway 66. The Larder Station Road was followed north for approximately 9.5km to a point at the traverse area crosses the road.

1.3 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 VLF EM operator. GPS waypoints, VLF EM samples were taken every 12.5m along these controlled traverses. The GPS used was a Garmin GPSMAP 62s with an external antenna for added accuracy.

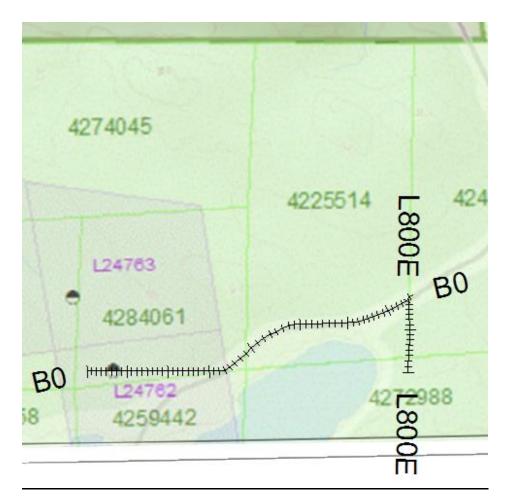


Figure 2: VLF EM Traverses on Claim Map





2. SURVEY WORK UNDERTAKEN

2.1 SURVEY LOG

3. Date	Description	Line	Min Ex- tent	Max Extent	Total Survey (meters)
May 7, 2016	Locate survey area and per-				
	form VLF EM survey.	0N	0E	775E	775
		800E	0N	175N	175

Table 1: Survey Log

3.1 Personnel

Claudia Moraga operated the VLF EM and Bruce Lavalley navigated and collecting the GPS waypoints. Both are from Britt, Ontario.

3.2 SURVEY SPECIFICATIONS

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

A total of 0.95 line kilometers of VLF EM over the Lucky Strike Property on May 7, 2016. This consisted of 76 VLF EM samples taken at a 12.5m sample interval.





4. OVERVIEW OF SURVEY RESULTS

4.1 SUMMARY

No culture was noticed during the course of the survey that would interfere with the results.

Two areas of interest are highlighted by the VLF EM traverses. The first of the areas is a crossover near 225E on line 0N. This appears as a strong crossover that appears to strike perpendicular to the traverse line. This most likely indicates the presence of a structural feature. This being said the area should be prospected for determine the source of the anomaly.

The second VLF EM signature appears from 0 to 75N on line 800E. This appears as a subparallel to line 800E axis. The axis does not cross line 0 therefore it most likely strikes east of north. Again this may be structurally related, however I would recommend prospecting this area to help determine the source of the anomaly.





APPENDIX A

STATEMENT OF QUALIFICATIONS

- I, C. Jason Ploeger, hereby declare that:
- 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 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 Ltd.

> Larder Lake, ON April 19, 2017





APPENDIX B

THEORETICAL BASIS AND SURVEY PROCEDURES

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 kilometers 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 aerials 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.





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 & Performanc	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):		y 6.0			
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)

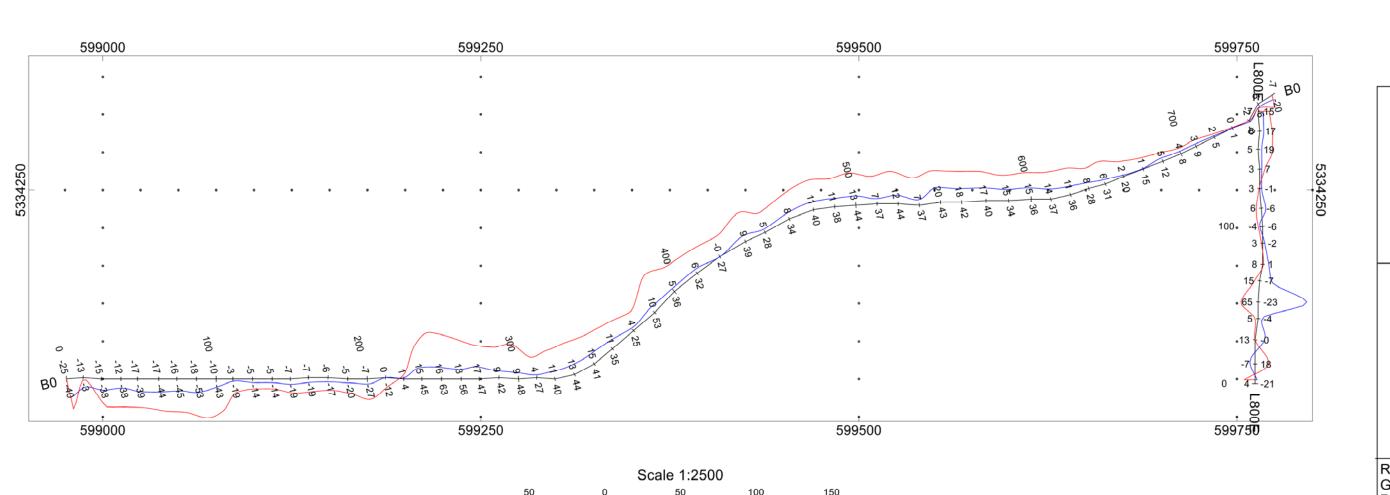
VLF EM Plan Map (1:2500)

1) Q2192-ASHLEY-LUCKY STRIKE-MONOCLE-VLF-NAA

Grid Sketch on Claim Map (1:20000)

2) Q2192-ASHLEY-LUCKY STRIKE-MONOCLE-TRAVERSE

TOTAL MAPS = 2



NAD83 / UTM zone 17N



LUCKY STRIKE PROPERTY MONOCLE LAKE AREA McVittieTownship, Ontario

VLF IN PHASE/OUT PHASE PROFILE 24.0kHz NAA - CUTLER USA

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

Vertical Profile Scales: 5 %/mm

Station Seperation: 12.5 meters Posting Level: 0

GSM-19 VLF v7

Receiver Operated By: Bruce Lavalley GPS Operated By: Claudia Moraga Processed by: Jason Ploeger Map Drawn By: C Jason Ploeger, B.Sc. April 2017



Drawing: Q2192-ASHLEY-LUCKY STRIKE-MONOCLE-VLF-NAA

