AURORA GEOSCIENCES

NORTHERN GEOLOGICAL & GEOPHYSICAL CONSULTANTS

YELLOWKNIFE - WHITEHORSE - JUNEAU

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MEMORANDUM

To: James Moors
Goldstrike Resources Ltd.

Date: September 25, 2017

From: Shawn Scott

Re: Gold Bank 2017 IP and EM Geophysical Surveys Field Report

This memorandum describes the 2D DC Resistivity/Induced Polarization (IP) and Moving Loop Electro-Magnetic (EM) surveys carried out on Goldstrike Resources Ltd.'s Plateau Gold Project. A four person crew was mobilized from Aurora Geosciences' Whitehorse office to Goldstrike Resources' Spit Lake camp on July 31, 2017. Data collection began on August 1, 2017 with the EM survey and transitioned to the IP survey on August 16, 2017. The day after cleaning up the IP gear, the crew demobilized to Whitehorse on August 25, 2017. A full crew log describing daily production is included with the digital version of this report.

Data were collected along 14.5 kilometres of cut line, on 3 NE trending lines spaced 1 km apart over the Goldbank and Ron Stack trends. The IP survey was planned for all 3 lines but was shortened by Goldstrike to ensure no interference with an airborne EM survey being flown at the same time. In the end, it covered the two most westerly lines for a total of 9.5 km. The EM survey covered all 3 lines and all 14.5 kilometres. The IP survey originally was planned for lines at Goldstack and Gold Dome, but these surveys were also cancelled.

Crew

The following Aurora Geosciences Ltd. personnel conducted the surveys:

Crew Member	Job Role	Dates on Site
Shawn Scott	Crew Chief	July 31 – Aug 25, 2017
Hannah Warrington	Field Hand	July 31 – Aug 30, 2017
Jared Kite	Field Hand	July 31 – Aug 25, 2017

Michael Arness	Field Hand	July 31 – Aug 25, 2017

Equipment

The crew was equipped with the following instruments and equipment:

Moving Loop EM Survey:
- 1 – Geonics EM-47 Transmitter
- 2 – Geonics Protem Digital Receivers
- 1 – Geonics HF Sensor
- 2 – Georeels
- 3 – Georeel spools with 10 awg wire

IP Survey:
- 1 – Iris Elrec Pro 10 channel IP receiver
- 1 – GDD TxII 3.6 kW
- 1 – Honda Ex5000 5kW generator
- 1 – Repair tools and spare IP parts
- 25 – 50m 10 pin receiver array cables
- 45 – 25m 10 pin receiver array cables
- 60 – Stainless steel electrodes
- 4 – Speedy winders
- 26 – Speedy winder spools with 18 awg wire

Other:
- 1 – Laptop computer with Geosoft Oasis Montaj, ProSys II.
- 4 – Handheld non differential GPS
- 1 – InReach Satellite Texting Unit
- 4 – Handheld VHF radios
- 1 – Base Radio
- 1 – Office supplies
- 4 – Bear spray and bear bangers
- 1 – Husqvarna 353 Chainsaws, Chainsaw PPE

Property Location

Goldstrike's Plateau South project is located approximately 120 km E of Mayo. The crew stayed at the Spit Lake Camp located at 574293E, 7017190N (NAD83, Zone 8). The surveyed area begins 1.5 kilometres north of camp and extends 5 kilometres at 30 degrees NNE towards the Hess River.

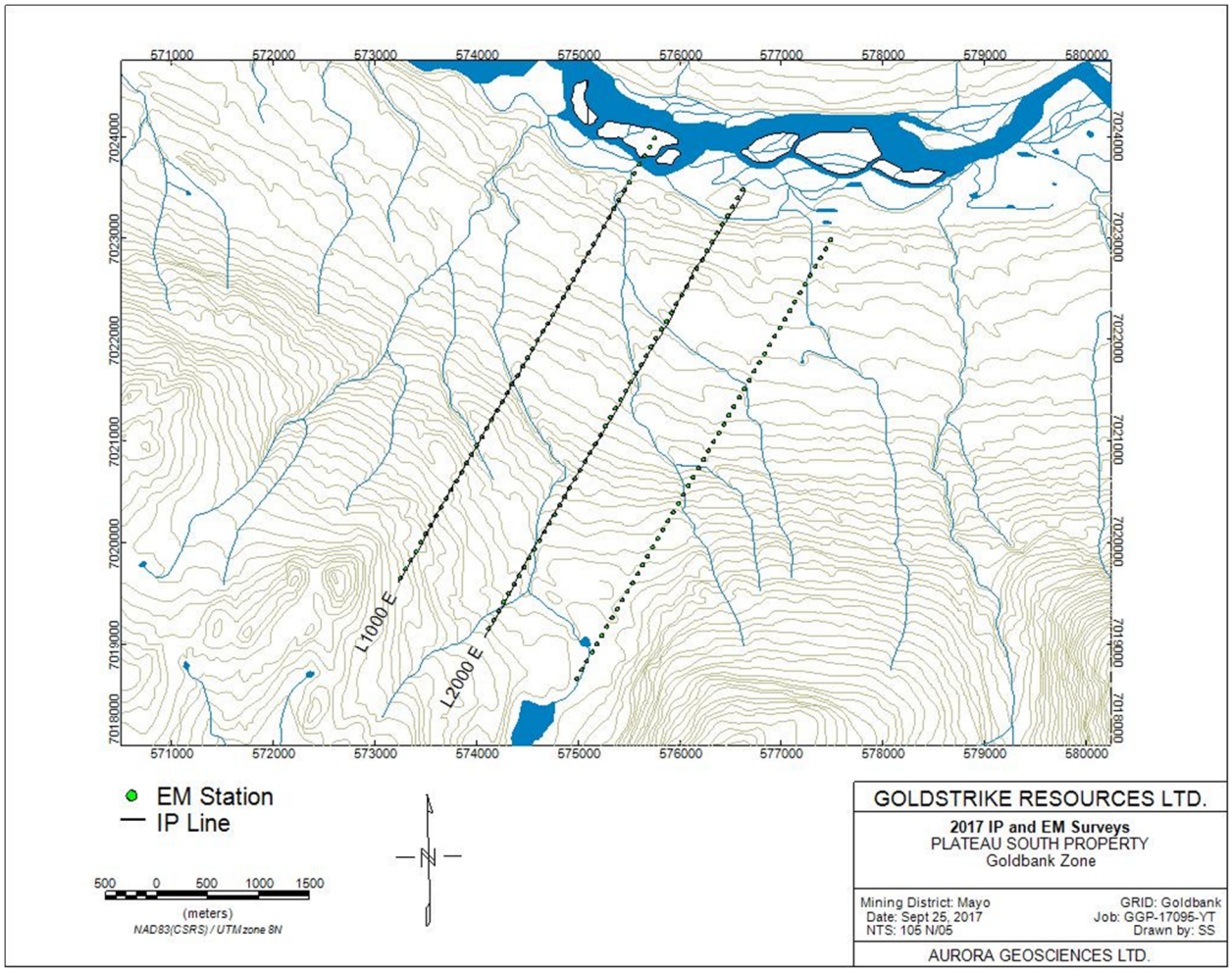

Figure 1: Grid Overview Map

Survey Specifications

Moving Loop EM:

Station spacing:	100 m (1 sounding recorded in centre of loop, 1 reading 50 m downline from the loop)
Line spacing:	1000 m
Loop geometry:	100 m X 100 m, centred on the line
Base Frequency:	30 Hz on Line 1000, 75 Hz on Lines 2000 and 3000

2D DCIP Survey:

Array:	Modified Pole-dipole

Dipole Spacing:	50 m
Dipoles range:	N=1-10
Transmitter settings:	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Receiver Settings:	Semi-logarithmically spaced time gates.
Stacks:	3 readings, 20 stacks per reading.
Distant Electrode:	Distant electrodes were placed directly on each line, 100 m back from the receiver array (Line 1000) and 50 m (Line 2000).

Data Collection and Processing

IP data were downloaded from the receiver and imported to Geosoft Oasis Montaj. Every reading was inspected and readings which did not repeat or are suspect for any reason were rejected using the Oasis Montaj IP quality control tool. Data was georeferenced using GPS points collected in the field with handheld Garmin GPS units. Topography was assigned to each station by sampling DEM values. Unaveraged, georeferenced databases that included all rejected readings were submitted by request to contacts at Newmont Mining Corporation.

Moving loop EM data collection was marred by transmitter issues. Ringing was persistent and after consultation with technicians at Geonics the issue was traced to a faulty damping resistor. The equipment was repaired in the field and although the data were improved the strength of the ringing still negated the value of the data collected. EM data is included only as raw data.

The following files are included in the digital version of this report:

File / Folder name	Description of contents
Raw data\	Raw IP data dump files in .bin format and TDEM data in .tem and Geonics .Gx7 formats.
Figures\	IP pseudosections and overview map in .pdf and packed Geosoft map formats.
Final Data\	Final IP database in .csv and .gdb format.
Documents\	This report and crew log in .pdf format

Both QA/QC databases, where all data appear and final databases where only the accepted, averaged data appear are appended to this report.

Table 1: List and description of the channels in the final databases

Channel Name	Description
X	Local Coordinate Plot point - Station
Y	Local Coordinate Plot point - Line

Z	Local Coordinate Plot point - Depth
Stn	Stn, defined by Geosoft as the midpoint between RX1 and TX1
Easting_NAD83_Z8	Easting of Stn
Northing_NAD83_Z8	Northing of Stn
Topo	Elevation of Stn
T1X	Local Coordinate of T1X (roving current electrode) or T1X designation
T1X_NAD83_Z8	UTM Easting Nad 83 Zone 8 coordinate of T1X
T1Y_NAD83_Z8	UTM Northing Nad 83 Zone 8 coordinate of T1X
T1Z_NAD83_Z8	Elevation of T1X
T2Z_NAD83_Z8	Elevation of T2X
T2X	Dummy value local coordinate of infinite electrode
T2X_NAD83_Z8	UTM Easting Nad 83 Zone 6 coordinate of T2X
T2Y_NAD83_Z8	UTM Northing Nad 83 Zone 6 coordinate of T2X
R1X	Local Coordinate of potential electrode 1
R1X_NAD83_Z8	UTM Easting Nad 83 Zone 8 coordinate of R1X
R1Y_NAD83_Z8	UTM Northing Nad 83 Zone 8 coordinate of R1X
R1Z_NAD83_Z8	Elevation of R1X
R2X	Local Coordinate of potential electrode 2
R2X_NAD83_Z8	UTM Easting Nad 83 Zone 8 coordinate of R2X
R2Y_NAD83_Z8	UTM Northing Nad 83 Zone 8 coordinate of R2X
R2Z_NAD83_Z8	Elevation of R2X
Date	Date of data acquisition
DayTime	Time of data acquisition
Type	Geosoft indicator of array type
Time	Length of the reading window (ms)
Stack	Number of transmitter cycles measured during the course of the reading
RsCheck	Contact resistance of potential electrodes (kOhm)
IP_Index	Necessary channel for Geosoft Database
IP_Mask[0]	Geosoft mask value in the 40-80 ms off-time window (mV/V)
IP_Mask[1]	Geosoft mask value in the 80-120 ms off-time window (mV/V)
IP_Mask[2]	Geosoft mask value in the 120-160 ms off-time window (mV/V)
IP_Mask[3]	Geosoft mask value in the 160-200 ms off-time window (mV/V)
IP_Mask[4]	Geosoft mask value in the 200-240 ms off-time window (mV/V)
IP_Mask[5]	Geosoft mask value in the 240-280 ms off-time window (mV/V)
IP_Mask[6]	Geosoft mask value in the 280-360 ms off-time window (mV/V)
IP_Mask[7]	Geosoft mask value in the 360-440 ms off-time window (mV/V)
IP_Mask[8]	Geosoft mask value in the 440-520 ms off-time window (mV/V)
IP_Mask[9]	Geosoft mask value in the 520-600 ms off-time window (mV/V)
IP_Mask[10]	Geosoft mask value in the 600-680 ms off-time window (mV/V)
IP_Mask[11]	Geosoft mask value in the 680-760 ms off-time window (mV/V)
IP_Mask[12]	Geosoft mask value in the 760-840 ms off-time window (mV/V)
IP_Mask[13]	Geosoft mask value in the 840-1000 ms off-time window (mV/V)
IP_Mask[14]	Geosoft mask value in the 1000-1160 ms off-time window (mV/V)

IP_Mask[15]	Geosoft mask value in the 1160-1320 ms off-time window (mV/V)
IP_Mask[16]	Geosoft mask value in the 1320-1480 ms off-time window (mV/V)
IP_Mask[17]	Geosoft mask value in the 1480-1640 ms off-time window (mV/V)
IP_Mask[18]	Geosoft mask value in the 1640-1800 ms off-time window (mV/V)
IP_Mask[19]	Geosoft mask value in the 1800-1960 ms off-time window (mV/V)
Sp	Spontaneous potential (mV)
ResCalc	Apparent resistivity calculated with correction for proximal infinite (Ohm*m)
ResFinal	Average apparent resistivity calculated with correction for proximal infinite (Ohm*m)
ResMeas	Apparent resistivity calculated by the receiver (local coordinate) (Ohm*m)
Vp	Primary voltage measured 1260 into the on-time window (mV)
QC_OnTime	Quality control for the resistivity channel
I	Transmitter current (A)
Chg	Average chargeability calculated by the receiver
IP[0]	Normalized Voltage measurement in the 40-80 ms off-time window (mV/V)
IP[1]	Normalized Voltage measurement in the 80-120 ms off-time window (mV/V)
IP[2]	Normalized Voltage measurement in the 120-160 ms off-time window (mV/V)
IP[3]	Normalized Voltage measurement in the 160-200 ms off-time window (mV/V)
IP[4]	Normalized Voltage measurement in the 200-240 ms off-time window (mV/V)
IP[5]	Normalized Voltage measurement in the 240-280 ms off-time window (mV/V)
IP[6]	Normalized Voltage measurement in the 280-360 ms off-time window (mV/V)
IP[7]	Normalized Voltage measurement in the 360-440 ms off-time window (mV/V)
IP[8]	Normalized Voltage measurement in the 440-520 ms off-time window (mV/V)
IP[9]	Normalized Voltage measurement in the 520-600 ms off-time window (mV/V)
IP[10]	Normalized Voltage measurement in the 600-680 ms off-time window (mV/V)
IP[11]	Normalized Voltage measurement in the 680-760 ms off-time window (mV/V)
IP[12]	Normalized Voltage measurement in the 760-840 ms off-time window (mV/V)
IP[13]	Normalized Voltage measurement in the 840-1000 ms off-time window (mV/V)
IP[14]	Normalized Voltage measurement in the 1000-1160 ms off-time window (mV/V)
IP[15]	Normalized Voltage measurement in the 1160-1320 ms off-time window (mV/V)
IP[16]	Normalized Voltage measurement in the 1320-1480 ms off-time window (mV/V)
IP[17]	Normalized Voltage measurement in the 1480-1640 ms off-time window (mV/V)
IP[18]	Normalized Voltage measurement in the 1640-1800 ms off-time window (mV/V)
IP[19]	Normalized Voltage measurement in the 1800-1960 ms off-time window (mV/V)
IP_Avg	Average Chargeability calculated by Geosoft.
IP_Final	Final Apparent chargeability averaged between repeated readings. (mV/V)
Q_Final	Final Chargeability error averaged between repeated readings. (mV/V)
N	The dipole number in the array (calculated in geosoft)
Q	Standard deviation of the average chargeability during the reading (mV/V)
QC_offTime	Quality control for IP_Avg Channel
ColeTau, M, RMS, Name, TxBat	Not used
Overload	Overload voltage flag

RxBat	Receiver battery Level (V)
Temp	Internal receiver tempature (degrees C)
MF	Metal factor

Respectfully submitted,

Shawn Scott

Aurora Geosciences Ltd.