Stu 2019 Geophysics – IP Survey Field Report

115/I07 Yukon, Canada

WORK PERFORMED: August 23 – September 11, 2019

Prepared for:



Prepared by:



Field Report Stu 2019 Geophysics – IP Survey

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1 SUMMARY

This report describes the DC resistivity-induced polarization (IP) survey conducted for Granite Creek Copper Ltd. on the Stu Property north of Carmacks, Yukon. The survey consisted of seven 2D IP lines totalling 23.9 line-km.

Aurora Geosciences Ltd. completed the work in a single deployment from August 23rd to September 11th, 2019. The crew stayed in Copper North's Carmacks Copper camp a few kilometers south of the IP lines. Daily access to the grid was by truck and ATV. Vision Quest Exploration line cutters were also at the camp from August 23rd when the Aurora crew arrived until September 1st. A small forest fire approximately 100 metres from the access road to camp forced a temporary evacuation on September 8th but the Carmacks branch of Yukon Government's wildland fires department neutralized the danger immediately and the crew returned to work after a single night in Carmacks.

A full survey log is attached to this report as Appendix I.

2 CREW AND EQUIPMENT

The personnel who conducted the survey are detailed in Table 1.

Table 1: Crew detail.

Crew Member	Job Role	Dates on Site
Dave Hildes	Onsite Project Manager	Aug 23 – Sep 11, 2018
Nicholas McKay	Technican	Aug 23 – Sep 11, 2018
Vince Van Delft	Technician	Aug 23 – Sep 11, 2018
Adam Bouchama	Technician	Aug 23 – Sep 11, 2018
Rupert Dook	Technician	Aug 23 – Sep 11, 2018
Liam Fowlie	Delivery Driver / Truck Rescue	Aug 23, Sep 11,16 & 17, 2019
Casey Chouinard	Truck Rescue	Sep 16 & 17, 2019

The crew was equipped with instruments and equipment as detailed in Table 2.

Table 2: Instrument and	equipment detail.
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Equipment	Model	Serial Numbers
IP receivers	1 X Iris Elrec Pro 1 X GDD GRx24	2315-2758300063-165 1312
IP transmitters	2 X GDD 3.6kW TxII	267 & 438
Non-differential handheld GPS	5 X Garmin 64 or 62 CSX + 2 backup	05
Handheld radios	5 X iCom handheld	

1 X Base

Communication	1 X Iridium Sat phone 2 X InReach
IP equipment	60 X 50 m cables 2 X Honda 5 kW generators Misc. IP equipment
Office equipment	2 X Laptops with Geosoft Office box including repair kit & bear deterrents
Vehicles	1 X Truck (4X4) 2 X 2 person ATVs with trailers 1 X single person ATV (backup)

3 SURVEY LOCATION

Granite Creek Copper's Stu Property is located approximately 47 km northwest of the village of Carmacks, YT. Access is via 34 km on the government maintained (gravel) Freegold Road and then 14 km along the privately maintained access road to Copper North's Carmacks Project. The crew stayed at the Copper North camp on Williams Creek and commuted the 3-4 km daily to the Stu 2019 IP survey lines, shown in Figure 1Figure 1, by truck. The old Gran/Zone 3 access road is currently accessible by ATV from the main road to just beyond L96.

Lines were cut by an independent contractor and deviated significantly from the planned locations, often by more than 100 metres. In general the IP crew used the lines as provided despite the location errors and made every effort to keep stations as close to their projected locations as possible. The one exception was the southwest end of L108 where the cut line deviated to such an extent that it crossed L106 from the BC Gold 2008 IP survey and remained in between L106 and L104. The old BC Gold lines are shown in Figure 1Figure 1 by lighter weight than the 2019 IP lines. As IP data had already been collected in this area, the crew decided to pick up the equipment already laid out and instead leave the cut line at station 12500 to angle back to the planned line location. The line cutters did recut some of the southwest end of L108 but in general L108 from station 10500 to 12500 as shown in Figure 1Figure 1 is not cut.

The planned lines are at an azimuth of 038, designed to complement the lines surveyed for BC Gold in 2008. With permission from Copper North, the lines extend beyond the Stu claim boundary onto Copper North's property to enable full depth imaging on the Stu.

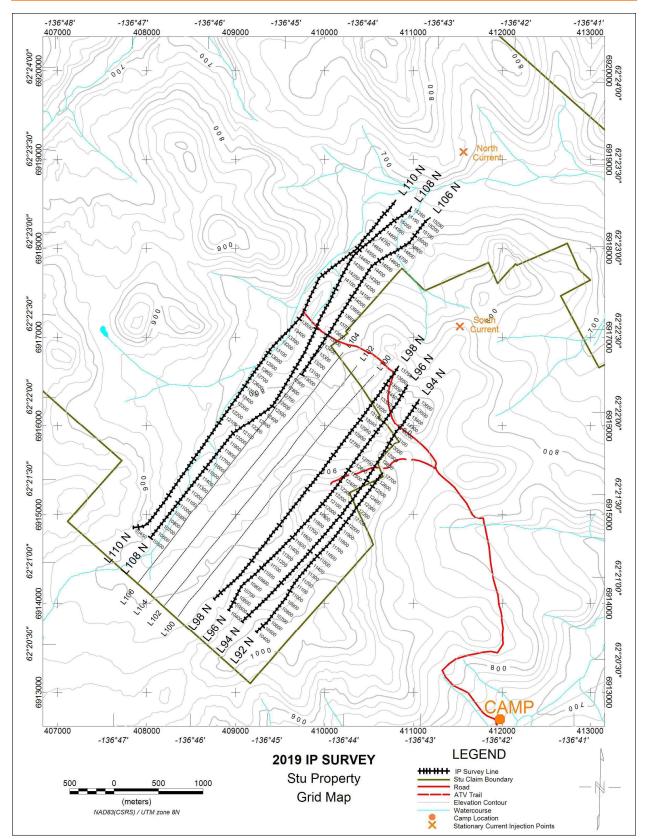


Figure 1: Survey Location and Road Access.

4 SURVEY SPECIFICATIONS

The IP-resistivity survey was conducted according to specifications detailed in Table 3.

Table 3: IP-resistivity survey specifications.

Array	Poly-pole array with 6 X 50 m, 4 X 100 m, 2 X 150 m. Total spread length is 1000 metres. The roving current is always 50 m away from the first receiving electrode and moves are 50 m.	
Dipole spacing	50, 100 & 150 metres.	
Line spacing	200 metres (nominal).	
Registration	Navigation and station locations by non-differential GPS on cut lines. NAD83, UTM Zone 8N coordinates were used. No station markings in the field were used.	
Current locations	Roving current inline and 50 m northeast of potential spread. Current moves are in 50 m increments. Stationary current electrodes as follows:	
	LinesUTM Zone 8 EastingUTM Zone 8 Northing110, 108 & 106411565691908898, 96, 94 & 924115256917122	
Тх	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.	
Rx windows	20 channels, semi-log scheme. Time delay of 40 ms. 7 channels of 40 ms, 7 channels of 80 ms and 6 channels of 160 ms.	
Stacks	Minimum 15, more as required dependent on noise.	
Repeated Stations	Taken at the discretion of the field operator to balance confidence and productivity.	

5 DATA PROCESSING

Resistivity-IP and GPS data were downloaded nightly from the receiver and handheld GPSes and archived. Data were imported into the Geosoft Oasis Montaj IP package, inspected and poor quality readings or those which did not repeat rejected from the database. The apparent resistivity is recalculated using a four-electrode equation assuming a homogeneous earth and georeferenced coordinates. The apparent resistivity and total chargeability are averaged for repeated stations.

The data quality is very high for most areas. L106 was surveyed on days where thunderstorm activity was high and data are noisier on this line, presumably from spherics.

As the cut lines were in general not close to the planned locations, every station was recorded using handheld non-differential GPS units. The arctic 2 metre DEM from the Polar Geospatial Center at the University of Minnesota¹ is used where these data exist and is supplemented by NRCAN Canvec data elsewhere. These products were knitted into a single DEM covering the survey area and all station elevations are determined from this.

Data are presented as pseudosections in Appendix II. Individual lines have linear (chargeability) and log (resistivity) colour schemes specific to that line. Stacked sections share a common linear (chargeability) and log (resistivity) colour scheme for all lines.

Both QA/QC databases, where all data appear and final databases where only the accepted, averaged data appear are appended to this report and have channels as described in Table 4. Databases are provided in Geosoft database and ASCII formats.

Channel Name	Description
х	Local coordinate plot point - Station
Y	Local coordinate plot point - Line
Z	Local coordinate plot point - Depth
T1Y	Local coordinate of T1 (roving current electrode)
T2Y	Local coordinate (or designated coordinate) of T2 (stationary current electrode)
R1Y	Local coordinate of R1 - potential electrode closest to T1
R2Y	Local coordinate of R2 - potential electrode further from T1
Vp_raw	Primary voltage as measured 1260 into the on-time window (mV)
Vp	Primary voltage, with sign correction if required (mV)
I	Transmitter current (A)
Sp	Spontaneous potential (mV)
Contact	Contact resistance of potential electrodes (kOhm)
Stack	Number of transmitter cycles measured during the course of the reading
Date	Date of data acquisition
Hour	Time of data acquisition
QC_IP	Quality control for chargeability
QC_RES	Quality control for resistivity
IP_Avg	Calculated average chargeability (mV/V)
ErrM	Standard deviation of the average chargeability during the reading (mV/V)
ErrVp	Standard deviation of the primary voltage during the reading (mV/V)
IP[0]	Normalized voltage measurement in the 40-80 ms offtime window (mV/V) $$
IP[1]	Normalized voltage measurement in the 80-120 ms offtime window (mV/V)

Table 4: List and description of channels in IP-resistivity databases.

¹ Porter, Claire; Morin, Paul; Howat, Ian; Noh, Myoung-Jon; Bates, Brian; Peterman, Kenneth; Keesey, Scott; Schlenk, Matthew; Gardiner, Judith; Tomko, Karen; Willis, Michael; Kelleher, Cole; Cloutier, Michael; Husby, Eric; Foga, Steven; Nakamura, Hitomi; Platson, Melisa; Wethington, Michael, Jr.; Williamson, Cathleen; Bauer, Gregory; Enos, Jeremy; Arnold, Galen; Kramer, William; Becker, Peter; Doshi, Abhijit; D'Souza, Cristelle; Cummens, Pat; Laurier, Fabien; Bojesen, Mikkel, 2018, "ArcticDEM", <u>https://doi.org/10.7910/DVN/OHHUKH</u>, Harvard Dataverse, V1, 2019-08-02

IP[2]	Normalized voltage measurement in the 120-160 ms offtime window (mV/V)
IP[3]	Normalized voltage measurement in the 160-200 ms offtime window (mV/V)
IP[4]	Normalized Voltage measurement in the 200-240 ms offtime window (mV/V)
IP[5]	Normalized Voltage measurement in the 240-280 ms offtime window (mV/V)
IP[6]	Normalized Voltage measurement in the 280-360 ms offtime window (mV/V)
IP[7]	Normalized Voltage measurement in the 360-440 ms offtime window (mV/V)
IP[8]	Normalized Voltage measurement in the 440-520 ms offtime window (mV/V)
IP[9]	Normalized Voltage measurement in the 520-600 ms offtime window (mV/V)
IP[10]	Normalized Voltage measurement in the 600-680 ms offtime window (mV/V)
IP[11]	Normalized Voltage measurement in the 680-760 ms offtime window (mV/V)
IP[12]	Normalized Voltage measurement in the 760-840 ms offtime window (mV/V)
IP[13]	Normalized Voltage measurement in the 840-1000 ms offtime window (mV/V)
IP[14]	Normalized Voltage measurement in the 1000-1160 ms offtime window (mV/V)
IP[15]	Normalized Voltage measurement in the 1600-1100 ms offtime window (mV/V)
IP[16]	Normalized Voltage measurement in the 1320-1480 ms offtime window (mV/V)
IP[17]	Normalized Voltage measurement in the 1480-1640 ms offtime window (mV/V)
IP[18]	Normalized Voltage measurement in the 1400-1600 ms offtime window (mV/V)
IP[19]	Normalized Voltage measurement in the 1800-1960 ms offtime window (mV/V)
IP_Mask[0]	Geosoft mask value in the 40-80 ms offtime window (mV/V)
IP_Mask[1]	Geosoft mask value in the 80-120 ms offtime window (mV/V)
IP_Mask[2]	Geosoft mask value in the 120-160 ms offtime window (mV/V)
IP Mask[3]	Geosoft mask value in the 160-200 ms offtime window (mV/V)
IP_Mask[4]	Geosoft mask value in the 200-240 ms offtime window (mV/V)
IP_Mask[5]	Geosoft mask value in the 240-280 ms offtime window (mV/V)
IP_Mask[6]	Geosoft mask value in the 280-360 ms offtime window (mV/V)
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IP_Mask[8]	Geosoft mask value in the 440-520 ms offtime window (mV/V)
IP_Mask[9]	Geosoft mask value in the 520-600 ms offtime window (mV/V)
IP Mask[10]	Geosoft mask value in the 600-680 ms offtime window (mV/V)
IP_Mask[11]	Geosoft mask value in the 680-760 ms offtime window (mV/V)
IP Mask[12]	Geosoft mask value in the 760-840 ms offtime window (mV/V)
IP Mask[13]	Geosoft mask value in the 840-1000 ms offtime window (mV/V)
IP Mask[14]	Geosoft mask value in the 1000-1160 ms offtime window (mV/V)
IP Mask[15]	Geosoft mask value in the 1160-1320 ms offtime window (mV/V)
IP_Mask[16]	Geosoft mask value in the 1320-1480 ms offtime window (mV/V)
IP_Mask[17]	Geosoft mask value in the 1480-1640 ms offtime window (mV/V)
IP_Mask[18]	Geosoft mask value in the 1640-1800 ms offtime window (mV/V)
IP_Mask[19]	Geosoft mask value in the 1800-1960 ms offtime window (mV/V)
calcAppRes	Resistivity calculated using four electrode equation.
T1_UTME	UTM Zone 8N NAD83 Easting of T1
T1_UTMN	UTM Zone 8N NAD83 Northing of T1
T1_Z	Elevation of T1
T2_UTME	UTM Zone 8N NAD83 Easting of T2

T2_UTMN	UTM Zone 8N NAD83 Northing of T2
T2_Z	Elevation of T2
R1_UTME	UTM Zone 8N NAD83 Easting of R1
R1_UTMN	UTM Zone 8N NAD83 Northing of R1
R1_Z	Elevation of R1
R2_UTME	UTM Zone 8N NAD83 Easting of R2
R2_UTMN	UTM Zone 8N NAD83 Northing of R2
R2_Z	Elevation of R2
Line	Local Coordinate - Line
Stn	Local Coordinate - Station
Stn_UTME	UTM Zone 8N NAD83 Easting of Stn
Stn_UTMN	UTM Zone 8N NAD83 Northing of Stn
Торо	Surface elevation of Stn
Туре	Geosoft indicator of averaged or unaveraged reading
Time	Length of the reading window
IP_Index	Necessary channel for Geosoft Database
ResCalc	Apparent resistivity calculated by Geosoft (without correction for proximal infinite) (Ohm*m)
Μ	Average chargeability calculated by the receiver
MF	Calculated Metal Factor
Ν	The dipole number in the array (calculated in geosoft)
Gfact	Calculated geometric factor based on 4 electrode equation
Final_IP	Final averaged chargeability
Final_Res	Final averaged resistivity
AppRes	Calculated apparent resistivity using georeferenced station locations

6 PRODUCTS

The following are attached to the digital version of this report.

<u>Folder / File</u>	Description of Contents
GCX-20190919-Stu_IP_Field_Report.pdf	This report in PDF format.
Data\GeosoftGDB*.gdb	Processed final and QC databases in Geosoft format.
Data\ASCIIDB*.xyz	Processed final and QC databases in ASCII format.
Figures\Geosoft Packed Maps*. <i>map</i>	Figures in Geosoft packed map format.

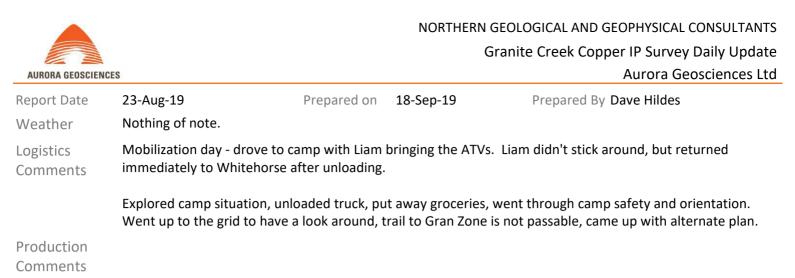
Figures\PDFs* <i>.pdf</i>	Figures in letter (8.5″ X 11″) and tabloid (11″ X 17″) PDF format
ShapeFiles*.shp	Selected ESRI shape files.
Raw\	Daily archive of instrument and gps dump files.

Respectfully submitted,

Jave (1975

Dave Hildes, P.Geo., Ph. D. Project Manager, Geophysics Aurora Geosciences Ltd. Appendix I

Granite Creek Copper – Stu 2019 Geophysics Crew Log



Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	5
Total:	5	5

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp	1	1



Aurora Geosciences Ltd

Report Date24-Aug-19Prepared on18-Sep-19Prepared By Dave HildesWeatherNothing of noteLogistics
commentsLong toolbox meeting as we continued to go through start-of-job things. Set up for L108 and got a few
stations in. Back at 1845.

٦

Production L108. Production for project is in number of current injection points. Set up day.

Personnel

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	10
Total:	5	10

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection Current injection points points		
L108	4	4		
Total:	4	4		



Aurora Geosciences Ltd

Report Date25-Aug-19Prepared on18-Sep-19Prepared By Dave HildesWeatherSunny with a light shower (15 minutes) in the afternoon. No effect on survey.Logistics
CommentsContinued working on L108. Rodent chew in thorugh the night slowed down the start of the day. Back just
after 1800.ProductionL108.

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	15
Total:	5	15

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection Current injection points points		
L108	35	31		
Total:	35	31		



Aurora Geosciences Ltd

Report Date	26-Aug-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Sunny with light shower / ha	il. No effect on	the survey.	
Logistics Comments	•	o the intended	line. Line cutte	is decision was made to not keep to the cut line rs came and cut the the end of the line. y.
Production	L108. Slow with all the cable	e reworking invo	olved with not f	ollowing the cut line.

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	20
Total:	5	20

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L108	50	15		
Total:	50	15		



Aurora Geosciences Ltd

Report Date	27-Aug-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Sunny, not too hot. No effe	ct on productior	۱.	
Logistics Comments	Rodent chew through the ni Worked late to finish the lin	•	•	day, completed L108, 4.7 km of IP completed.
Production Comments	L108. Cummulative product	ion = 4.75 km.		

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	25
Total:	5	25

Trips Today	Trips Total
	1
	Trips Today

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L108	93	43		
Total:	93	43		



NORTHERN GEOLOGICAL AND GEOPHYSICAL CONSULTANTS

Granite Creek Copper IP Survey Daily Update

Aurora Geosciences Ltd

 Report Date
 28-Aug-19
 Prepared on
 18-Sep-19
 Prepared By Dave Hildes

 Weather
 Nothing of note.
 Image: Sep-19
 Prepared By Dave Hildes

 Logistics
 Moved to L110, did some clean up on L108. Crew tired from yesterday, did an early day and back at 1700.

 Comments
 Production
 L110.

 Comments
 L110.

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	30
Total:	5	30

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production			
Grid Name	Total Production	Todays Production	
IP Survey	Current injection points	Current injection points	
L108	93		
L110	19	19	
Total:	112	19	



NORTHERN GEOLOGICAL AND GEOPHYSICAL CONSULTANTS

Granite Creek Copper IP Survey Daily Update

Aurora Geosciences Ltd

Report Date Weather	29-Aug-19 Cloudy	Prepared on	18-Sep-19	Prepared By Dave Hildes
Logistics Comments	Continued on L110 and comp	leted cleaning ι	ıp L108. Had a good da	у.
Production Comments	L110.			
Personnel			Transport	

Personnel		
Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	35
Total:	5	35

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production					
Grid Name	Total Production	Todays Production			
IP Survey	Current injection points	Current injection points			
L108	93				
L110	53	34			
Total:	146	34			



Aurora Geosciences Ltd

Report Date	30-Aug-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Sunny.			
Logistics Comments				y on the SW end of the line (some thundercloud
Production	L110. Cummulative	production = 9.5 km.		

Personnel

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	40
Total:	5	40

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production					
Grid Name	Total Production	Todays Production			
IP Survey	Current injection Current injection points points				
L108	93				
L110	94	41			
Total:	187	41			



Aurora Geosciences Ltd

Report Date Weather	31-Aug-19 Nothing of note.	Prepared on	18-Sep-19	Prepared By Dave Hildes
Logistics Comments	, e	•	•	trouble with ATV getting stuck. Much and of L110 surveyed late yesterday). Still
Production Comments	L106.			

Personnel

Type of Personnel	Qty in Camp Today	Total Person Days	
Geophysics Personnel	5	45	
Total:	5	45	

Transport

Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production					
Grid Name	Total Production	Todays Production			
IP Survey	Current injection Current injection points points				
L106	18	18			
L108	93				
L110	94				
Total:	205	18			



Aurora Geosciences Ltd

Report Date	01-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Nothing of note			
Logistics Comments	•	•	• •	Finished the day with cleaning the NW part of ill have wire to clean up on L110 and L108.
	Line cutters completed	the grid and left cam	ip today.	
Production	L106. Cummulative pro	oduction = 11.75 km.		

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	50
Total:	5	50

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L106	43	25		
L108	93			
L110	94			
Total:	230	25		



Aurora Geosciences Ltd

Report Date	02-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Mix of sun and cloud. Nothi	ng to affect proc	duction	
Logistics Comments	Finished the clean up on the NW part of the grid (lines 110, 108 and 106). Moved transmitter and infinite to new spot right by L98, will remain here for the rest of the job. Set up and read 700 metres on L98.			-
Production Comments	L98.			

-

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	55
Total:	5	55

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L106	43			
L108	93			
L110	94			
L98	14	14		
Total:	244	14		



Aurora Geosciences Ltd

Report Date	03-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Thunderstorm and	rain (at times heavy) in th	ne aftrenoon	
Logistics Comments	Continued on L98. Broken current wire first thing in the morning. Had to stand down in the afternoon while waiting for a thunderstorm to pass. At the end of the day, had some bad readings wet cable problem?			
	Three went into Ca	rmacks to get more food	and one drum o	of diesel.

Production L98. Open loops, thunderstorm.

Comments

Type of F	Personnel	Qty in Camp Today	Total Person Days	
Geophysics F	Personnel	5	60	
	Total:	5	60	

T	ra	ns	ро	rt

Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Pro	duction	
Grid Name	Total Production	Todays Production
IP Survey	Current injection points	Current injection points
L106	43	
L108	93	
L110	94	
L98	38	24
Total:	268	24



Aurora Geosciences Ltd

Report Date	04-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Mix of sun and cloud, thunderstorms in the afternoon.			
Logistics Comments	Longer day to complete L106, 15.35 km of IP completed. Had some cable issues in the morning and then very bad noise with local thunderheads. Back at camp at 1900.			C C
Production	L98. Cummulative productio	n = 15.15 km.		

Comments Personnel

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	65
Total:	5	65

Trips Today	Trips Total
	1
	Trips Today

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L106	43			
L108	93			
L110	94			
L98	67	29		
Total:	297	29		



Aurora Geosciences Ltd

Report Date	05-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes	
Weather	Mix of sun and cloud. Brief hail shower that made a few readings noisy.				
Logistics Comments	Started on L96. Some issues with a few wet(?) cable heads, took some time to troubleshoot. Cleaned L98 of cables but still wire to spool up. Back at camp at 1730.				
Production Comments	L96.				

Type of Personnel	Qty in Camp Today	Total Person Days	
Geophysics Personnel	5	70	
Total:	5	70	

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production			
Grid Name	Total Production	Todays Production	
IP Survey	Current injection points	Current injection points	
L106	43		
L108	93		
L110	94		
L96	20	20	
L98	67		
Total:	317	20	



Aurora Geosciences Ltd

Report Date	06-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Nothing of note.			
Logistics Comments	A good day, worked late to finish L96, now 18.6 km of IP completed. Finished cleaning up L98 and positioned cables on L94. While positioning cables discovered that L94 and L92 are quite close together.			
Production Comments	L96. Cummulative productio	n = 18.4 km. A g	ood day - quiet	noise.

Type of Personnel	Qty in Camp Today	Total Person Days	
Geophysics Personnel	5	75	
Total:	5	75	

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Production			
Grid Name	Total Production	Todays Production	
IP Survey	Current injection points	Current injection points	
L106	43		
L108	93		
L110	94		
L96	63	43	
L98	67		
Total:	360	43	



Aurora Geosciences Ltd

Report Date	07-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes	
Weather	Sunny, windy, not too hot.				
Logistics Comments	Set up and started reading on L94. Cleaned some of the cables off L96 and started to lay out on L92. No major issues, a good day.				
Production Comments	L94.		_		

Type of Personnel	Qty in Camp Today	Total Person Days	
Geophysics Personnel	5	80	
Total:	5	80	

Transport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Geophysics Prod	luction	
Grid Name	Total Production	Todays Production
IP Survey	Current injection points	Current injection points
L106	43	
L108	93	
L110	94	
L94	28	28
L96	63	
L98	67	
Total:	388	28



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Report Date	08-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Sunny, warm.			
Logistics Comments	A good day, completed L94 that line.	(20.3 km of IP su	urveyed) and started LS	92. Some clean up on L96 but still wire on
	On the way back to camp no camp, 100 metres away fror		•	on discovered a forest fire 3.8 km south of mp and drove to Carmacks.

Production L94 & L92 Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	85
Total:	5	85

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Grid Name	Total Production	Todays Production
IP Survey	Current injection points	Current injection points
L106	43	
L108	93	
L110	94	
L94	71	43
L96	63	
L98	67	
Total:	431	43



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Report Date	09-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Sunny and warm			
Logistics Comments	Went to talk to wildland fire that they would take care of		opened and they assu	red us we could go back to working and
	Noon by the time we got bac 2100.	ck to camp but h	nad a very long day to	complete L92. Arrived back in camp at

Production L92. Cummulative production = 23.9 km.

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	90
Total:	5	90

T	rai	ารเ	po	rt

Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		1

Geophysics Production				
Grid Name	Total Production	Todays Production		
IP Survey	Current injection points	Current injection points		
L106	43			
L108	93			
L110	94			
L92	36	36		
L94	71			
L96	63			
L98	67			
Total:	467	36		



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Report Date	10-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Mix of sun and cloud, some s	showers in the e	vening.	
Logistics Comments	0930 toolbox meeting - late s lines.	meeting - late start to recuperate after late nights last few days. Cleaned up everything off the		
	Truck got very very stuck after	er taking a wron	g turn and crew spent	hours trying to free it. No success so

gave up around 2000 and went back to camp. Hopefully when the delivery truck comes to pick up the quads tomorrow it can tow us out. Driver knows situation and will bring the big truck with chains.

_ ... _ ...**.**

Production None - clean up day

Comments

Personnei		
Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	95
Total:	5	95

ransport	
Transport Type Trips Today	Trips Total
Hotshot Whitehorse to camp	1

Grid Name	Total	Todays
	Production	Production
IP Survey	Current injection	Current injection
	points	points
L106	43	
L108	93	
L110	94	
L92	36	
L94	71	
L96	63	
L98	67	
Total:	467	



Report Date	11-Sep-19	Prepared on	18-Sep-19	Prepared By Dave Hildes
Weather	Nothing of note.			
Logistics Comments	brought went to attempt re	ell as Kluane pers	onnel to close u ick but no succes	g up camp. p camp. Both trucks and big winch that Kluane ss. Between the two trucks there were enough all gear other than the stuck truck. Arrived back

Aurora truck is still at the property.

Production

Comments

Personnel		
Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel	5	100
Total:	5	100

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp	1	2

Geophysics Production			
Grid Name	Total Production	Todays Production	
IP Survey	Current injection points	Current injection points	
L106	43		
L108	93		
L110	94		
L92	36		
L94	71		
L96	63		
L98	67		
Total:	467		



LogisticsTruck rescue crew went to site with Kluane drilling and a D300. Truck extraction was successful and crewCommentsdrove back to Carmacks. Arrived late, truck stuck in 4-low.

Production

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel		100
Total:		100

Transport	
Transport Type Trips	Today Trips Total
Hotshot Whitehorse to camp	2

Geophysics Production			
Grid Name	Total Production	Todays Production	
IP Survey	Current injection points	Current injection points	
L106	43		
L108	93		
L110	94		
L92	36		
L94	71		
L96	63		
L98	67		
Total:	467		



Aurora Geosciences Ltd

Report Date

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te 17-Sep-19
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Prepared on

on 18-Sep-19

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Prepared By Dave Hildes

Weather

LogisticsResolved the 4-low problem by cleaning away more of the mud and truck rescue crew returned toCommentsWhitehorse.

Production

Comments

Type of Personnel	Qty in Camp Today	Total Person Days
Geophysics Personnel		100
Total:		100

Transport		
Transport Type	Trips Today	Trips Total
Hotshot Whitehorse to camp		2

Geophysics Production		
Grid Name	Total Production	Todays Production
IP Survey	Current injection points	Current injection points
L106	43	
L108	93	
L110	94	
L92	36	
L94	71	
L96	63	
L98	67	
Total:	467	

Appendix II

Granite Creek Copper – Stu 2019 Pseudosection Plots

