
MEMORANDUM

To: Dennis Ouellette, Greg Hayes **Date:** September 8, 2010
From: Genevieve Hetu
Re: MEL Line Cutting & Induced Polarization Survey

This memorandum is a field report describing line cutting and geophysical survey conducted on the Mel property in the Whitehorse Mining District, Yukon Territory.

The program consisted to survey three lines with dipole-dipole and expanding pole-dipole induced polarization (IP) survey on the Mel property, Whitehorse mining district, Yukon Territory.

Prior to that, the crew extended the eastern Apex claims cut lines to the west on to the Mel claims and past 300 m to the western Apex claims to ensure full coverage of IP data on the Mel property.

The survey is moving east on all line. To the west of station 1350W the array type is dipole-dipole and changes to expanding pole-dipole east of this station.

A total of 4.9 line-km were cut and 5.5 km surveyed. Line cutting production was impacted by thick after fire vegetation and dead falls. One of the line cutters was injured when a wood chip went under his visor and into his eye; this injury and subsequent personnel change also affected line cutting production

The program was conducted from August 20th, 2010 to September 3th, 2010, based out of the Pelly Farm camp.

A full survey log describing day by day operations is attached to this report.

a. Crew and equipment.

The survey was conducted by the following personnel:

Genevieve Hetu	Crew chief	August 20 th – September 3 th 2010
Phil Emerson	Helper/Cutter	August 20 th – September 3 th 2010
Bruce Germain	Helper/Cutter	August 20 th - August 24 th 2010
Laurence Danvoye	Helper	August 20 th - August 24 th 2010
Barry Sylverfox	Helper/Cutter	August 25 th – August 30 th 2010
Daniel MacKenzie	Helper	August 25 th – September 3 th 2010
Matt Olsen	Helper	September 1 st – September 3 th 2010

The crew was equipped with the following instruments and equipment:

IP receiver	1	Iris Elrec Pro
IP transmitter	1	GDD TxII 3.6 kW
Generator	1	Honda 5kW generator
IP equipment	1	Repair tools & spare IP parts
	5 km	14 gauge wire
	4	VHF handheld radios
		Georeels & spools ,and stainless steel electrodes
Line Cutting	3	Husquavarna 365
	3	Repair tools, replacement parts and files
	2	Chain, GPS and compass
		Bar oil and mixed gaz
Other	1	Laptop with Geosoft IP package
	1	Sat phone
	1	Sleeping tent with cots and stove

b. Survey specifications.

The dipole-dipole and pole-dipole surveys were conducted according to the following specifications:

Array	Dipole-dipole array changing to expanding pole-dipole array when survey moves from Apex to Mel property.
Dipole spacing	50 m on all lines
Dipoles Read	N=1 through 10 when possible
Tx	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Stacks	Minimum 15
Rx error	5 mV/V or less, otherwise repeated several times until repeatability assured.
Grid registration	Handheld GPS points at line ends and every 200m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N.

c. **Data Processing.**

Data was downloaded nightly from the receiver and imported into Geosoft Oasis Montaj IP package. Every reading was inspected and readings which did not repeat were rejected from the database. Apparent resistivity was recalculated using a four electrode equation assuming a homogeneous earth. Average apparent resistivity and chargeability were calculated using a weighted mean based on the number of stacks and the standard deviation of the chargeability.

GPS points were dumped from the non-differential handheld units and the coordinates for the stations determined by linear interpolation between stations.

Pseudosections of apparent chargeability, apparent chargeability error and apparent resistivity draped over topography, were produced with Oasis Montaj.

d. **Products.**

The following files are appended to the digital version of this report:

Figures	Grid map and pseudosections for L0N, L200N and L400N in PDF Format
Final Data	Final IP data files in Geosoft gdb format. Final GPS files in text format. All coordinates in NAD83 UTM zone 8N Channels_IP.txt
Raw	A folder with all the raw instrument dump files

NTR-10558-YT LC &IP Field
Report.pdf
NTR-10558-YT Daily Report.pdf

This report in PDF format
Survey Log

Respectfully submitted,
AURORA GEOSCIENCES LTD.
Genevieve Hetu

FIELD