

MEL YMIP 2010 10–119 FINAL REPORT

NORTHERN TIGER RESOURCES INC.

GROUND INDUCED POLARIZATION SURVEY AT THE MEL PROPERTY, DAWSON RANGE AREA, YUKON TERRITORY

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Location: 62 40' N 137 19' W NTS: 115 I 11 Mining District: Whitehorse, YT Date: 20 Jan 2011

SUMMARY

A ground induced polarization survey was conducted on the MEL property for Northern Tiger Resources Inc. to locate the source of a historical copper soil geochemical anomaly. 4.9 line-km were cut and 5.5 line-km were surveyed with a dipole-dipole array, changing to expanding poledipole array when the survey moves from the Apex to the Mel claims, using a 50 m receiving dipole spacing. The data were interpreted by employing automated computer inversion to generate 3D models of the apparent chargeability and resistivity from which vertical slices were extracted to produce sections mapping these properties.

The survey located a chargeability high defined by an isosurface enclosing material with chargeability in excess of 7 mV/V and up to 8 mV/V which could suggest the presence of disseminated sulphide mineralization. The anomaly underlays two of the three survey lines, lines 400N and 200N, striking across both for a total length in excess of 200 metres. The chargeable zone is approximately 300 metres wide on the southeastern end and narrows to 150m as it plunges to the west-southwest. The anomaly remains 'open' to the northwest.

It is recommended that the chargeable zone be tested for economic mineralization by conducting a magnetic susceptibility ground geophysical survey.

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1.0 INTRODUCTION

Aurora Geosciences Ltd. was retained by Northern Tiger Resources Inc. to perform an induced polarization and resistivity (IP) survey at the MEL Property located 85 km north-northwest of Carmacks, Yukon Territory. The survey was conducted to explore for the source of a copper soil geochemical anomaly measured on the property. During the period of August 20 to September 3, 2010 a total of 5.5 line-km were surveyed with a dipole-dipole array, changing to expanding pole-dipole array when the survey moves from the Apex to the Mel Claims, using a 50 m receiving dipole spacing. A total of 4.9 line-km were also cut for the survey during this time period. This report describes the survey, data processing and results, and contains an interpretation of the data.

2.0 LOCATION AND ACCESS

The MEL Property is located 85 kilometres north-northwest of Carmacks in the Whitehorse Mining District. The property is centred at approximately 62 40' N 137 19' W on NTS 115 I 11 (Figure 1). The property is accessible by helicopter from a staging point at Pelly Farms.

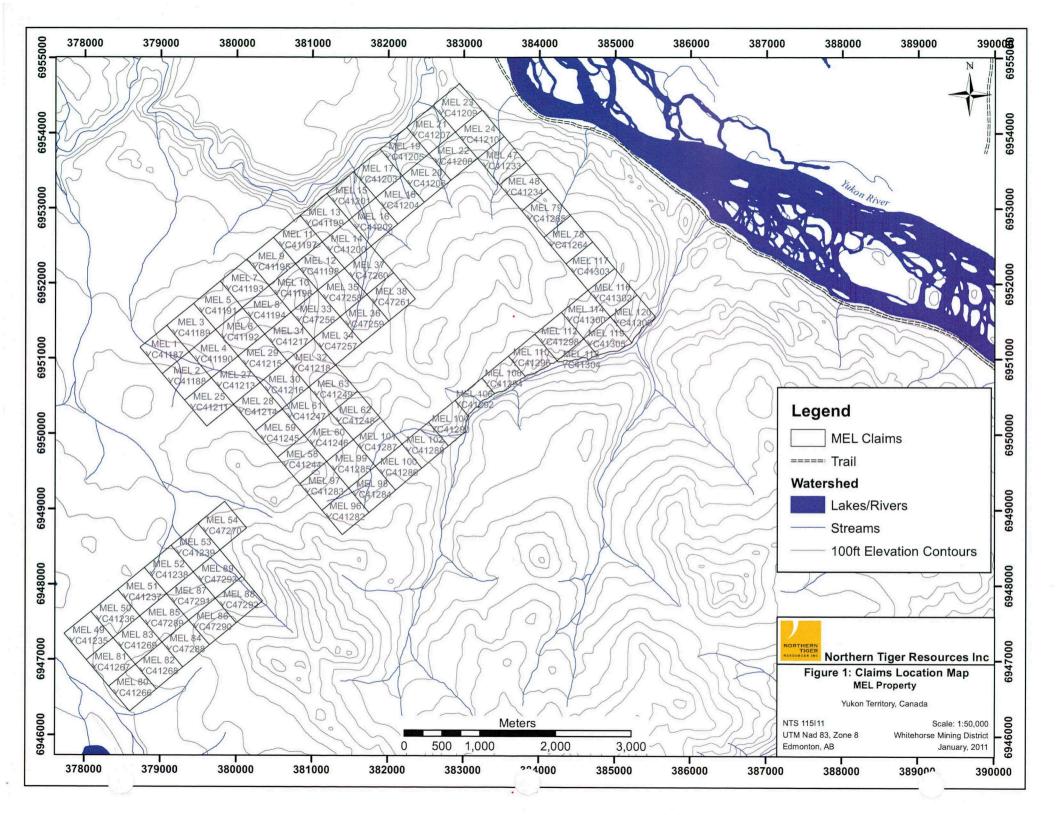
3.0 GRID

The location of the survey grids is shown in Figure 2. The dipole-dipole and expanding poledipole array IP survey data were collected on cut lines, straight chained by the line-cutting/IP crew, using an Iris Elrec Pro receiver to site locations. These lines were registered to geographic coordinates by taking repeated measurements with non-differential GPS receivers at stations spaced approximately 200 m along the lines.

4.0 PERSONNEL AND EQUIPMENT

The survey was conducted by the following personnel:

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



The crew was equipped with the following instruments and general equipment:

IP Receiver:	Iris Elrec Pro
IP Transmitter:	GDD Txll 3.6 kW
Generator:	Honda 5kW generator
Other IP Equipment:	1 set of repair tools & spare IP parts
	5km of 14 gauge wire
	4 VHF handheld radios
	Georeels & spools, stainless steel electodes
Line Cutting:	3 Husquavarna 365 chainsaws
	3 sets of chainsaw repair tools, replacement parts & files
	Bar oil and mixed gas
	2 Hip chain, GPS & compass
Camp:	1 Satellite phone
	1 12'x14' sleeping tent with stove & 4 cots
Data Processing:	1 Laptop computer with Geosoft IP package

5.0 SURVEY SPECIFICATIONS

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The IP survey was conducted according to the following specifications:

<u>Array:</u>	Dipole-dipole array changing to expanding pole-dipole array when survey moves from Apex to Mel property
Dipole spacing:	50 m
Separations Read:	N=1 through 10
<u>Tx mode / signal:</u>	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Receiver Sampling:	Semi-logarithmic sampling of the decay curve in 10 windows, stacked minimum 15 times.
<u>Noise</u> :	5mV/V or less, otherwise repeated several times until repeatability assured.
Grid Registration:	Handheld GPS points at line ends and every 200 m minimum averaged 60 s or until estimated accuracy <10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N

6.0 SURVEY NOTES

The Field Report and Survey Log in Appendix B describe survey operations including production. The crew mobilized to the property on August 20, 2009 by truck to Pelly Farms and thence by helicopter to the property. The line-cutting was completed first in preparation for the IP survey. 1.6 line-km each were cut on lines 200N and 400N while 1.35 line-km were cut on line 0N. Lines were spaced 200 m apart with 2 line-km each surveyed on lines 200N and 400N and the remaining 1.55 line-km surveyed on line 0N.

Conditions allowed good electrical contacts for the electrodes used by the IP survey, and no conductive ground was noticed resulting in clear and consistent readings. In the areas that did produce low signal to noise ratios extra readings and increased averaging stacks were taken to ensure data repeatability.

The work described in this report was based out of a temporary, road-accessible camp near Pelly Farm.

7.0 DATA PROCESSING & INTERPRETATION

The following procedures were used to prepare and invert the induced polarization and resistivity data using the UBC software DCIP3D; A Program Library for Forward Modelling and Inversion of Induced Polarization Data over 3D Structures, v 2.1. Only the pole-dipole IP data were considered for the modelling.

1. Data preparation. The IP data was reviewed and edited prior to preparing pseudosections and preparing the data sets for inversion. Duplicate readings were averaged to leave only a single reading at each station and separation. Readings with large errors which did not repeat within 10% were deleted from the data base. All electrodes were assigned UTM coordinates. Elevations were determined from a digital elevation model equivalent to NTS 1:50,000 map sheet 115 l/11.

2. Pseudosection plotting. Pseudosections of the apparent resistivity, chargeability and error in chargeability were prepared from the final edited data. The chargeability, error in chargeability and resistivity sections were scaled to the range on each line.

3. Data formatting. The apparent chargeability, apparent resistivity, electrode locations and topographic data were formatted for entry into the UBC inversion software.

4. Chargeability modelling. For each line, the observed standard deviation in the chargeability was used as a measure of error in the observed apparent chargeability. The same 3D mesh used for the resistivity inversion was used for the chargeability inversion modelling. No extra smoothing in the X and Y directions was applied. The inversion ended at convergence with good agreement between observed and predicted data.

5. Image extraction. The model results were imported into Geosoft databases to produce a three dimensional voxel from which horizontal and vertical slices could be extracted and displayed as gridded images.

Composite sections showing pseudo sections of apparent chargeability and apparent resistivity were produced, and form the basis of the results.

8.0 GEOLOGICAL SETTING & TARGET RESPONSE

The MEL property is located within the northern limit of the Intermontane Superterrane (Hart, 2008), occurring as a narrow sequence of Triassic to Lower Jurassic Stikinia Terrane volcanic and volcanoclastic strata mixed with Lower Jurassic Quesnellia Terrane metaigneous units.

Stikinia Terrane units consist largely of Upper Triassic Povoas Formation basalts to andesites, including andesitic ash through lapilli tuffs, with lesser clastic sedimentary units ranging from coarse conglomerate through mudstone to shale. These represent the northernmost portions of the Whitehorse Trough. Stikinia Terrane units commonly abut against Quesnellia Terrane Lower Jurassic Aishikik Suite medium to coarse grained biotite-hornblende metagranites and granodiorites, commonly moderately foliated. The Minto copper-gold mine occurs within the Klotassin Batholith, a foliated biotite granite member of the Aishikik Suite.

The MEL property occurs entirely within the same large unit of Aishikik Suite metagranite as the Minto copper-gold mine (Schulze, 2008). Sherwood Copper website literature designates this unit as the "Klotassin Batholith". Within MEL property boundaries, this unit occurs as a medium to coarse grained biotite granite, which is potassic-feldspar porphyritic to megacrystic in northwestern areas. The metagranites are commonly foliated; preliminary mapping in 2008 identified two orientation sets, one extending roughly northeast-southwest and dipping steeply southeast, the other extending north-northwest with steep west-southwest to vertical dips. Narrow, centimetre-scale biotitic zones were identified in northwestern portions of the main block.

Abundant narrow pegmatite dykes, commonly epidote-enriched, occur throughout the property. 2008 mapping suggests that dykes, and small scale shear zones, confirm to the north-northwest trending lineation exhibited by one of the foliation orientations.

A small unit of Wolverine Creek Suite stratigraphy along the north margin of the southwest block was identified from geological maps provided by the Yukon Geology Survey. This was not identified in the field.

No mineral occurrences within the MEL property boundaries are identified in the current Yukon Minfile database; no evidence of significant surface exploration is readily visible. The area was staked partly due to proximity to the Minto copper-gold mine to the south, held by Sherwood Copper Corporation, and also due to its similarity of geological setting to the Minto deposit.

Several occurrences proximal to the MEL claims have been identified. The ADERA occurrence, located directly north of Wolverine Creek, was staked in 1973 to cover areas of similar geological setting to the Minto mine. Exploration gave "disappointing results" (Yukon Minfile, 2008).

The ORI occurrence, located about 1.0 km south of the southern MEL property boundary, was first staked in 1971 by NRD Mining Ltd, to cover areas prospective for "Minto-style" mineralization. Geological mapping and grid soil sampling was done in 1972, followed by minor mechanized trenching in 1973. In 1971, the SEE and B claims were staked to the southeast by Adera Mining Ltd, which then entered into a joint venture with Consolidated Standard Minerals. Grid soil sampling and geological mapping in 1972 was followed by bulldozer trenching in 1973 and further geochemical analysis in 1974. The 1974 program returned anomalous gold and mercury values, which were not repeated during resampling in 1975 (Yukon Minfile, 2008).

The GIANT occurrence, located about 1.0 km south of the southwest corner of the main block of the MEL property, is a drilled prospect targeting a Minto-style copper-gold-silver showing within subparallel gneissic zones within foliated granodiorite. It was staked in 1973 and sold as two adjoining blocks to Tay River Minerals and Black Giant Minerals respectively; the blocks extend onto the current MEL property. In 1974 Black Giant drilled five holes, conducted surface magnetometer surveys and excavated six bulldozer trenches. A soil sampling program outlined a 400-metre gneissic zone hosting chalcopyrite, copper oxides and minor magnetite. Trenching indicated zone widths ranged from 0.6 to 15 metres, returning results to 0.2% copper, 0.1 g/t gold and 6.9 g/t silver across 3 metres. The best drill intercept graded 0.1% copper, 0.69 g/t gold and 1.4 g/t silver across 3.0 metres (Yukon Minfile, 2008). The 1974 program included geological mapping within the present MEL property.

Both the ORI and GIANT occurrences are currently within a parcel of Class A Settlement Land held by the Selkirk First Nation. This block forms the south boundary of the main and southeast blocks of the MEL property.

The property was originally staked in February 2006 by Minto Explorations Ltd. to cover ground prospective for "Minto-style" copper-gold mineralization. In June 2008 Northern Tiger Resources Inc. obtained a 100% interest in the claims, in exchange for exploration commitments across the property. A short exploration program consisting of geological mapping, reconnaissance-style soil sampling, some silt and rock sampling and post tagging was conducted by Northern Tiger from June 30 to July 4, 2008.

The 2008 exploration program identified a soil sample anomalous in copper (82.6 ppb Cu) in the area of the geophysical survey. The present IP survey was conducted to target the source of anomalous copper geochemistry on the MEL property.

The IP array used in the present survey has a maximum depth of penetration for a steeply dipping target in the order of 180 m. Flat lying or wide steeply dipping targets should be detectible to larger depths. Targets less than 25 m wide are difficult to detect with the 50 m dipoles used in the array. Thin (15-25 m) targets would be expected to produce single slash anomalies whose dip in a pseudosection has no bearing on the dip of the source body. Near surface thin tabular sources or small pods may produce dipole or single station anomalies.

The MEL property exploration target is a variation on a typical copper porphyry deposit such as the nearby Minto or Williams Creek deposits. Chalcopyrite and bornite with only minor pyrite would be the expected sulphide mineralization hosted by strongly deformed Jurassic aged granodiorite rocks.

Capstone Mining has reported success using IP and magnetometer geophysical surveys and follow-up diamond drilling as tools for locating economic deposits on their Minto property. In terms of IP response sufficient quantities of chalcopyrite-bornite sulphide mineralization would produce only a modest chargeability high reflecting the absence of more highly chargeable pyrite sulphide mineralization (Telford et al). The apparent resistivity data should generally map lithologies and some alteration.

Naturally, the response of given porphyry systems will vary widely depending upon differences in alteration and the presence or absence of structural displacements which may dismember the porphyry deposit.

9.0 RESULTS

The IP data is of generally good quality. The survey detected a northern northwest-southeast striking zone of elevated chargeability greater than 7 mV/V in a background of about 4-5 mV/V. Elevated chargeability values up to 8 mV/V were detected on lines 400N and 200N striking across the grid. The chargeable zone remains 'open' to the northwest.

Composite section figures 3, 4 and 5 show pseudo sections of average IP/chargeability, apparent chargeability error and apparent resistivity for survey lines 400N, 200N and 0N respectively. The pseudosections of chargeability and apparent resistivity data have been plotted assuming constant horizontal station intervals. A description of the survey results for each line follows.

Line 400N

A chargeability high response is seen on the chargeability pseudosection centred at approximately -20N. The top of the body is in the order of 100 metres vertical distance below the surface. The resistivity inversion shows the chargeable zone to be within highly resistive material.

Line 200N

A chargeability response is seen centred below station 0N on the chargeability pseudosection. The inversion results suggest the anomaly to be caused by a 350 metre wide chargeable zone (> 7 mV/V) with a depth to top being 0 - 75 metres below the surface. The inversion results also suggest that the zone occurs in resistive material.

Line 0N

There is no high chargeability anomaly visible across the entire survey line with the highest chargebility value being 5 mV/V in a background of 3-4 mV/V.

Discussion

An IP response depends on several factors including the type of sulphide mineralization present, the size and shape of sulphide grains, and the volume content of sulphide mineralization. Also rocks containing magnetite, graphite or clay minerals may give rise to increased chargeability readings. All of these factors make it difficult to estimate equivalent sulphide content based solely on chargeability readings.

The IP survey described in this report indicates a northern chargeability high anomaly striking across lines 400N and 200N, two of the three lines surveyed. The values measured and modelled are about one-point-five to two times above background, form distinct anomalies, and are consistently accompanied by high apparent resistivities.

This suggests disseminated sulphide mineralization may be the causative source of the chargeability anomaly. High chargeability could also be the result of accessory magnetite in igneous or volcanic rocks, unmapped at the surface, which are known to occur in the area. One would expect the presence of magnetite to result in high chargeability values.

10.0 CONCLUSIONS

The results of the induced polarization survey at the MEL Property support the following conclusions:

- a. There is a 150 to 300 metre zone of elevated chargeability defined by surface enclosing material with chargeability in excess of 7 mV/V and up to 8 mV/V in a background of 4-5 mV/V. The causative source may be attributable to disseminated sulphide or magnetite mineralization.
- b. The chargeable zone was detected on two (lines 400 & 200N) of three parallel survey lines spaced 200m apart, trending southeast to northwest for a total strike length in excess of 200 metres. The geophysical survey did not extend northwest beyond the three survey lines and the zone remains 'open'.
- c. The zone appears to be plunging to the west-southwest.
- d. The chargeable zone occupies material modeled to have high apparent resistivity and is located in an area geologically mapped as intrusive granodiorite.

11.0 RECOMMENDATIONS

The following recommendations are made based on the conclusions of this work:

- a. The chargeable zone described in this report should be tested for the presence of economic mineralization by a ground magnetic field survey.
- b. A recommended survey location would be on survey lines 400 and 200N in order to test the high chargeability material for the presence of magnetite.
- c. If favourable results are obtained from the magnetic susceptibility and DC resistivity surveys, two lines parallel to line 400N should be added at 200m spacing to the northwest of the original survey area. These lines would define the northwestern extent of the chargeability anomaly.

Dennis Ouellette P.Geol. Geologist

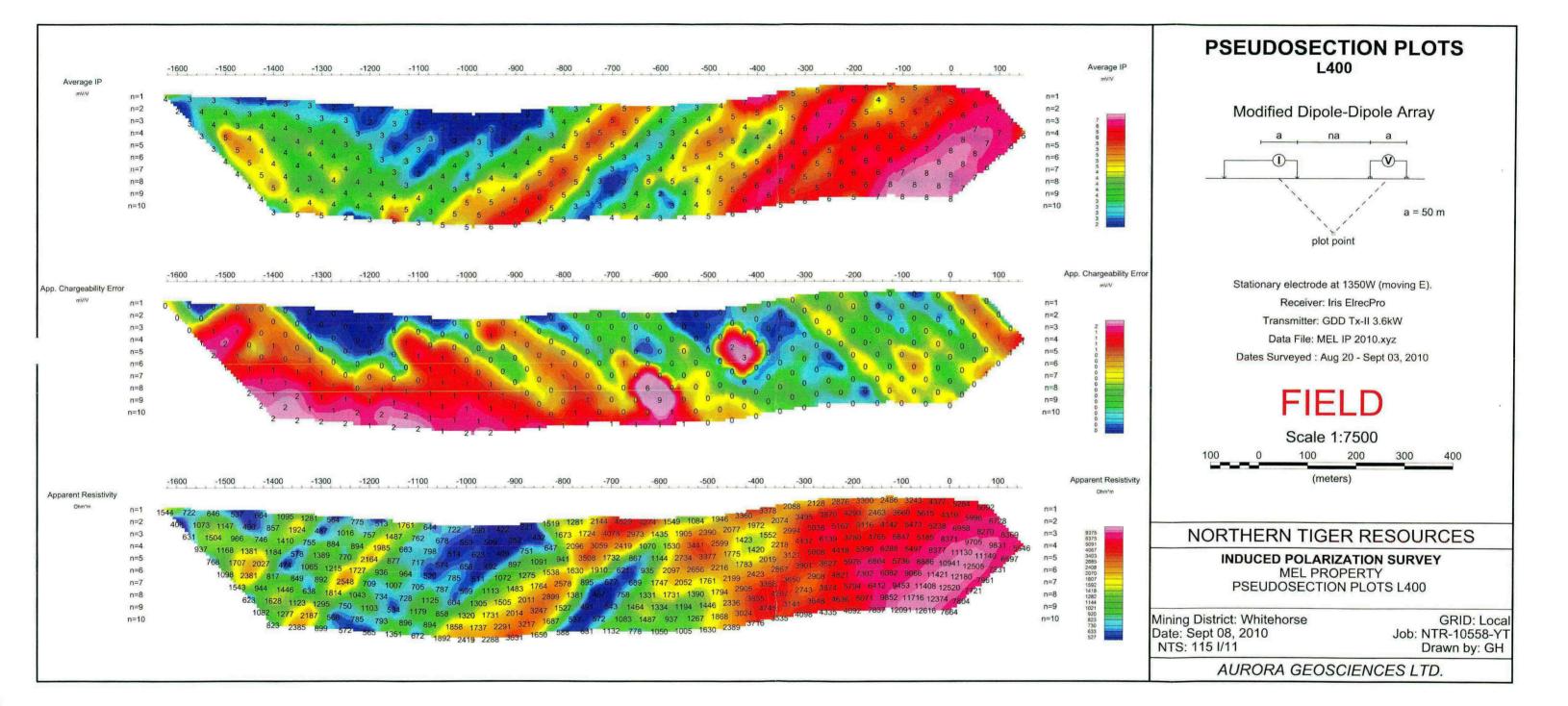
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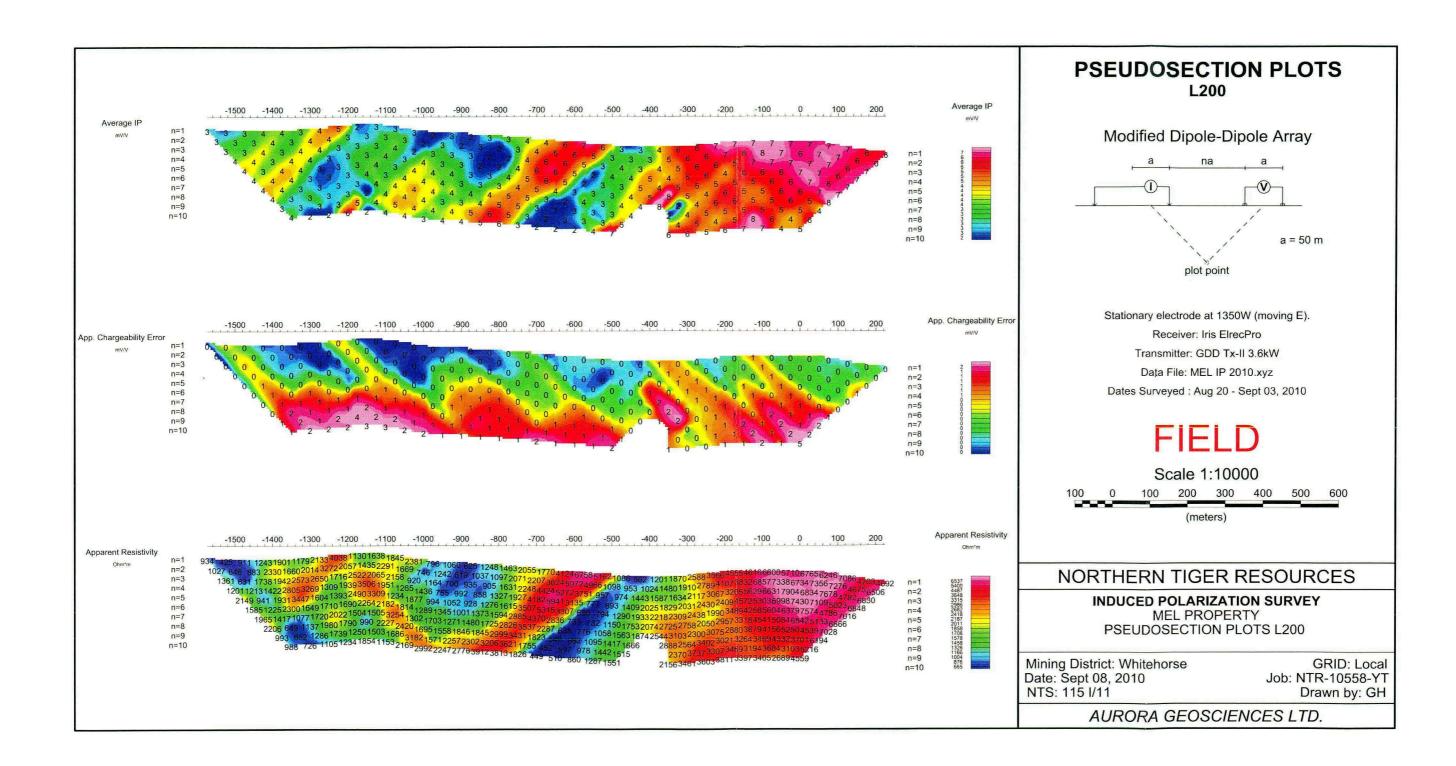
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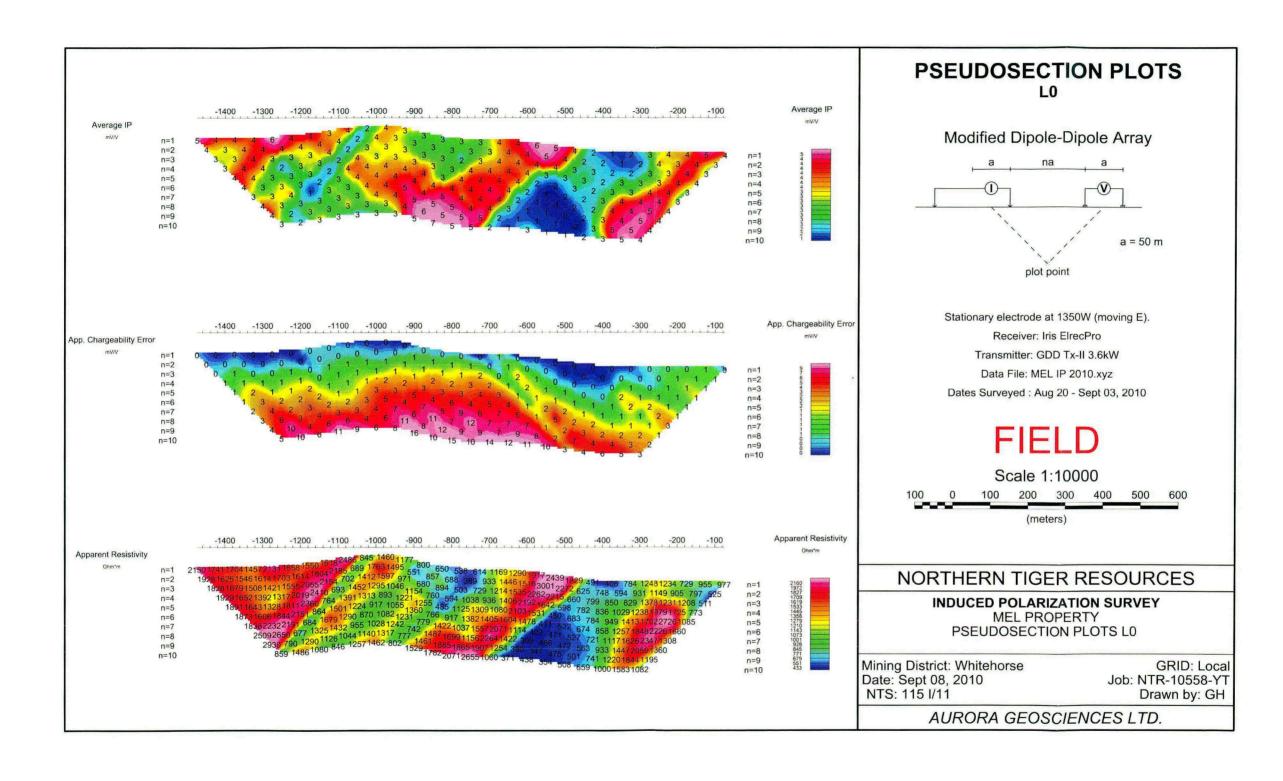
APPENDIX A. COMPOSITE SECTIONS

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APPENDIX B. SURVEY LOG

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DATE:

August 20, 2010

PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	2.193
Total magnetic field	line-km	1.1
Gravity	line-km	
IP	line-km	
HLEM	line-km	
PROTEM	line-km	1. 2.
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	
Line cutter	Bruce Germain	
Line cutter	Phil Emerson	
Helper	Laurence Danvoye	
Other	Heli Dymanics	
Other	NTR	
Other	Kluane Drilling	
Total persons in camp		1

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		
Other helicopter		150 m - 1 - 1 - 1
C185		
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas Overcast, 14°C.

Notes (incidents, other)

Mobe in to camp from Whitehorse by truck with full crew and gear. Set up sleeping tent. Started prep for field work.



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<<NAME>> PROJECT DAILY REPORT FORM

DATE:	August 21, 2010
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PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.9
Total magnetic field	line-km	1002 - 5 105 1
Gravity	line-km	
IP	line-km	
HLEM	line-km	n fan in stere
PROTEM	line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		1910.07

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	
Line cutter	Bruce Germain	
Line cutter	Phil Emerson	2. 9
Helper	Laurence Danvoye	:
		
Other	Heli Dymanics	
Other	NTR	
Other	Kluane Drilling	
Total persons in camp		1

LOGISTICSTypeContractorHrs or unitsCamp helicopter\$945Other helicopterCC185SBarge - Remote supplierSBarge - SpiritOther barge or tugHotel rooms in townSPersons in townS

OTHER

Weather & seas

Generally sunny, 20°C.

Notes (incidents, other)

Line 200N Bruce and Laurence : cut 450m, chained 450m. Line ON Phil and Genevieve : cut 450m, chained 450m.



DATE:	August 22, 2010

PREPARED BY:

Genevieve Hetu

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OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.6
Linecutting	line worked on	0, 200
Linecutting	cummulative line-km	1.5
IP	line-km	
IP	line worked on	
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter	Bruce Germain	1
Line cutter	Phil Emerson	1
Helper	Laurence Danvoye	1
Other	Heli Dymanics	1
Other	NTR	3
Other	Kluane Drilling	4
Total persons in camp		12

LOGISTICS

LOGISTICS		141
Туре	Contractor	Hrs or units
Camp helicopter		\$945
Other helicopter		
C185		
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Overcast, some local rain and thunderstorm, not on the work site, 15°C.

Notes (incidents, other)

Line 200N Bruce and Laurence : cut 300m, chained 300m. Line ON Phil and Genevieve : cut 300m, chained 300m. Thick after fire regrowth, dead falls, slow progression. Bruce injured his left eye when a wood chip got underneath the helmet viser and into the eye.



DATE:	
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August 23, 2010

OPERATIONS		
ltem	Unit / description	Qty
Linecutting	line-km	0.3
Linecutting	line worked on	0
Linecutting	cummulative line-km	1.8
IP	line-km	
IP	line worked on	
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	Se Selan
Winkie - other		(1892) 1993

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter	Bruce Germain	
Line cutter	Phil Emerson	
Helper	Laurence Danvoye	1
	• • • • • • • • • • • • • • •	
Other	Heli Dymanics	
Other	NTR	3
Other	Kluane Drilling	
Total persons in camp		12

PREPARED BY:

Genevieve Hetu

LOGISTICS

Туре	Contractor	Hrs or units
Camp helicopter		\$945
Other helicopter		
C185		
Beaver		
Barge - Remote supplier		
Barge - Spirit	100 Dec 100 Dec	
Other barge or tug		aller "alle"
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Overcast, local rain, 15°C.

Notes (incidents, other)

Line ON Phil and Genevieve : cut 300m, chained 300m. Thick after fire regrowth, dead falls, slow progression. Bruce went to the nurse's station in Pelly Crossing to get his eye checked. The medic recommanded to him to stop working. Laurence stayed in camp.



August 24, 2010

PREPARED BY:

Genevieve Hetu

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OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.3
Linecutting	line worked on	0
Linecutting	cummulative line-km	2.1
IP	line-km	at here to
IP	line worked on	20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	1.0.43
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter	Phil Emerson	1
		The grade and the
Other	Heli Dynamics	1
Other	NTR	3
Other	Kluane drilling	4
Total persons in camp		10

LOGISTICS

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$850
Other helicopter		
C185		1991, des 1-84
Beaver		Lot Strings
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug	1.12	1 - 1 - 1
Hotel rooms in town		1
Persons in town		

OTHER

Weather & seas

Low fog over the Pelly river early morning, generally sunny during the day, 18°C.

Notes (incidents, other)

Line ON Phil and Genevieve : cut 300m, chained 300m. Thick after fire regrowth, dead falls, slow progression. Bruce and Laurence left camp around 15:00 with Small Expediting Services.



DATE:	August 25, 2010
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PREPARED BY:

Genevieve Hetu

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OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.3
Linecutting	line worked on	0
Linecutting	cummulative line-km	2.4
IP	line-km	
IP	line worked on	1.1
IP	cummulative line-km	
< <other>></other>	line-km	- 1. AM
Gravity		1.1
Winkie - standby	hours	
Winkie - other		and a star

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	
Line cutter	Phil Emerson	
Line cutter	Barry Sylverfox	
Helper	Daniel MacKenzie	
Other	Heli Dynamics	
Other	NTR	3
Other	Kluane drilling	
Total persons in camp		12

LOGISTICS

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,316
Other helicopter		Market Street
C185		
Beaver		alay in a seal
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Sunny with clouds, 18°C.

Notes (incidents, other)

Line 0N Phil and Genevieve : cut 300m, chained 300m. Thick after fire regrowth, dead falls, slow progression. Daniel and Barry mobe in to camp by truck from Whitehorse.



DATE:	August 26, 2010
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OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.55
Linecutting	line worked on	200, 400
Linecutting	cummulative line-km	2.95
IP	line-km	
IP	line worked on	an an a start and
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter	Phil Emerson	1
Line cutter	Barry Sylverfox	1
Helper	Daniel MacKenzie	1
	and the first state of the	11 12 10 10
Other	Heli Dynamics	1
Other	NTR	
Other	Kluane drilling	4
Total persons in camp		12

PREPARED BY:

Genevieve Hetu

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,077
Other helicopter		
C185		
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		
Hotel rooms in town		
Persons in town		a the second

OTHER

Weather & seas

Sunny with clouds, 18°C.

Notes (incidents, other)

Line 200N Phil and Genevieve : cut 250m, redid all the chainage (from 300E to 800W). Line 400N Barry and Daniel : cut 300m. Thick after fire regrowth, dead falls, slow progression.



DATE:	August 27, 2010
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PREPARED BY:

Genevieve Hetu

OPERATIONS		
ltem	Unit / description	Qty
Linecutting	line-km	0.7
Linecutting	line worked on	200, 400
Linecutting	cummulative line-km	3.65
IP	line-km	
IP	line worked on	
IP	cummulative line-km	
< <other>></other>	line-km	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	
Line cutter	Phil Emerson	
Line cutter	Barry Sylverfox	
Helper	Daniel MacKenzie	
Other	Heli Dynamics	a - Autor
Other	NTR	
Other	Kluane drilling	1 S 1 H 2
Total persons in camp		12

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,077
Other helicopter	ing a second second	1.1.4
C185		
Beaver		
Barge - Remote supplier		Aller Children B
Barge - Spirit		
Other barge or tug		a en ara
Hotel rooms in town		1 <u>.</u>
Persons in town		and the second se

OTHER

Weather & seas Sunny with clouds, 18°C.

Notes (incidents, other)

Line 200N Phil and Genevieve : cut 400m, chained 400m. Line 400N Barry and Daniel : cut 300m, chained 600m. Thick after fire regrowth, dead falls, slow progression.



DATE: August 28, 2010

PR	EP	AR	ED	BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.5
Linecutting	line worked on	200, 400
Linecutting	cummulative line-km	4.15
IP	line-km	
IP	line worked on	
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	
Line cutter	Phil Emerson	
Line cutter	Barry Sylverfox	
Helper	Daniel MacKenzie	
Other	Heli Dynamics	
Other	NTR	4
Other	Kluane drilling	
Total persons in camp		13

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,436
Other helicopter		
C185		RE LL III.
Beaver	and the second	and the states of
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas Sunny with clouds, 16°C.

Notes (incidents, other)

Line 200N Phil and Genevieve : cut 200m, chained 400m. Same team cut the TX/helicopter pad and moved to west end of L400N and cut 100m. Line 400N Barry and Daniel : cut 200m, chained 200m. Thick after fire regrowth, dead falls, slow progression.



DATE:	August 29, 2010
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PRE	PARED	BY:

Genevieve Hetu

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OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	0.75
Linecutting	line worked on	400
Linecutting	cummulative line-km	4.9
IP	line-km	in in in
IP	line worked on	
IP	cummulative line-km	
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	in the second of
Line cutter	Phil Emerson	1
Line cutter	Barry Sylverfox	1
Helper	Daniel MacKenzie	
	-	
Other	Heli Dynamics	1
Other	NTR	(0)
Other	Kluane drilling	1
Total persons in camp		12

LOGISTICS

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$955
Other helicopter		
C185		1654 - J F
Beaver		
Barge - Remote supplier		
Barge - Spirit		G
Other barge or tug	11 July - 74-	
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Sunny with clouds, 22°C.

Notes (incidents, other)

Both team completed the cutting onLine 400N. Phil and Genevieve : cut 500. Barry and Daniel : cut 250m, chained 750m.



DATE	
DATE.	
	DATE:

August 30, 2010

PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	
Linecutting	line worked on	
Linecutting	cummulative line-km	-
IP	line-km	1.55
IP	line worked on	400
IP	cummulative line-km	1.55
< <other>></other>	line-km	1.0
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter/Helper	Phil Emerson	1
Line cutter/Helper	Barry Sylverfox	1
Helper	Daniel MacKenzie	1
Other	Heli Dynamics	1
Other	NTR	4
Other	Kluane drilling	4
Total persons in camp		13

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,003
Other helicopter		ing a second
C185		المتحيم رجا
Beaver		
Barge - Remote supplier		
Barge - Spirit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Other barge or tug		1.00
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Sunny with clouds, 22°C.

Notes (incidents, other)

Foged in until 11:00 am. Bear spray incident when loading in the helicopter. Daniel's bear spray got pucture and peppered him, Phil's leg and part of the gear. Crew is delayed for clean up until 12:30. Started the survey around 14:00. Surveyed line 400N from stn 1700W to 150W (1.55 line-km). Barry left for Pelly by truck in the evening.



DA	TE:	

August 31, 2010

PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	and the
Linecutting	line worked on	
Linecutting	cummulative line-km	
IP	line-km	0.25
IP	line worked on	400N, 200N
IP	cummulative line-km	1.8
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter/Helper	Phil Emerson	1
Helper	Daniel MacKenzie	1

		1.00
		1.00
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Other	BC Gold	2
Other	Heli Dynamics	1
Other	NTR	1
Total persons in camp		7

LOGISTICS Type

Туре	Contractor	Hrs or units
Camp helicopter		\$1,050
Other helicopter		
C185		
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug	1.5 1.5 1.64	1.5.5.5
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Light rain in the morning, sunny with clouds, 18°C.

Notes (incidents, other)

Surveyed L400N from Stn 100W to 100E (0.25 line-km). Ran of wire to completely close in L400N (last 200m on BCG property). Cleaned up wire on L400 and moved cable to L200N. Set up L200N. Some troubleshouthing with wire and cable line before crew is ready to survey.



PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	die Tolle
Linecutting	line worked on	
Linecutting	cummulative line-km	
IP	line-km	1.3
IP	line worked on	200N
IP	cummulative line-km	3.1
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

September 1, 2010

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter/Helper	Phil Emerson	1
Helper	Daniel MacKenzie	1
Helper	Matt Olsen	1
	and a second second second second second	
		12
Other	BC Gold	2
Other	Heli Dynamics	1
Other	NTR	1
		K St. Task
Total persons in camp		8

LOGISTICSTypeContractorHrs or unitsCamp helicopter\$1,050Other helicopterC185Barge - Remote supplierBarge - Remote supplierBarge - SpiritC185Other barge or tugHotel rooms in townPersons in townStatement

OTHER

Weather & seas

Light rain in the morning, sunny with clouds, 17°C.

Notes (incidents, other)

Troubleshouted problem on cable line. Surveyed L200N from Stn 1700W to 400W (1.3 line-km). Ran out of gaz for generator. Set up L0N ready to survey for next day.



DATE:	

September 2, 2010

OPERATIONS		
ltem	Unit / description	Qty
Linecutting	line-km	
Linecutting	line worked on	
Linecutting	cummulative line-km	
IP	line-km	2.25
IP	line worked on	200N
IP	cummulative line-km	5.35
< <other>></other>	line-km	
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	1
Line cutter/Helper	Phil Emerson	1
Helper	Daniel MacKenzie	1
Helper	Matt Olsen	1
	15	
Other	BC Gold	2
Other	Heli Dynamics	1
Other	NTR	1
Other	Kluane Drilling	4
Total persons in camp		12

PREPARED BY:

Genevieve Hetu

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120	uisnes	

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$1,743
Other helicopter		
C185		1 a
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug		1
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Sunny with clouds, hale, rain and thundershowers in the afternoon, 17°C.

Notes (incidents, other)

Completed survey on L200N from Stn 350W to 300E (0.7 linekm). Surveyed L0N from Stn 1550W to 0E (1.55 line-km). Slung out part of equipment and gear at end of day. Far electrical storms interfered with IP readings.



DATE:	September 3, 2010
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PREPARED BY:

Genevieve Hetu

OPERATIONS		
Item	Unit / description	Qty
Linecutting	line-km	li a
Linecutting	line worked on	
Linecutting	cummulative line-km	
IP	line-km	d Shield
IP	line worked on	
IP	cummulative line-km	5.55
< <other>></other>	line-km	. 19. AN
Gravity		
Winkie - standby	hours	
Winkie - other		

PERSONNEL		
Company / position	Person	In camp?
Aurora - Crew chief	Genevieve Hetu	C
Line cutter/Helper	Phil Emerson	0
Helper	Daniel MacKenzie	0
Helper	Matt Olsen	0
	min zastigen i	
Other	BC Gold	2
Other	Heli Dynamics	1
Other	NTR	1
Other	Kluane Drilling	4
Total persons in camp		8

IOGISTICS

LOGISTICS		
Туре	Contractor	Hrs or units
Camp helicopter		\$998
Other helicopter		
C185		5-7 P-1 P
Beaver		
Barge - Remote supplier		
Barge - Spirit		
Other barge or tug	200 B (100 B)	
Hotel rooms in town		
Persons in town		

OTHER

Weather & seas

Cloudy with light rain, 8°C.

Notes (incidents, other)

Matt and Daniel stayed in camp to pack the gear and load the trucks. Genevieve and Phil went on L200N and L0N to clean up the wire and the remaining of the IP gear. Crew mobed out of property and camp by truck to Whitehorse.



Whitehorse Office 34A Laberge Rd. Whitehorse, YT Y1A 5Y9 Phone (867) 668-7672 Fax: (867) 393-3577 www.aurorageosciences.com

MEMORANDUM

<u>To:</u>	Dennis Ouellette,	Greg Hayes	Date: September 8, 2010
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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
Тх	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

APPENDIX C. CERTIFICATE

STATEMENT OF QUALIFICATIONS

I, Dennis Ouellette, of the City of Edmonton, in Alberta, Canada


HEREBY CERTIFY:

- 1 That my address is Suite 220-17010 103Ave, Edmonton AB, T5S 1K7.
- 2 That I am a graduate of the Brandon University in 1984 with a B.Sc. In Geology.
- 3 That I have been practising as a Geologist since 1984.
- 4 That I am registered as a Member with The Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA) Member Number 104257.

Dated this 3/ day of January, 2011 at 2 dmonton

Dennis Ouellette, P.Geol

MEL IP Survey Stations



LEGEND ELEVATION CONTOUR INTERVALS (m) 20 100
500 STATION SEPARATION : 50 m LINE-KM SURVEYED THIS MAP : 5.55 km





