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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING, PROSPECTING AND GEOPHYSICAL SURVEYS

at the

HARTLESS JOE PROPERTY

Hart	1	YC26568
	2-4	YC30012-YC30014
	5-28	YC37057-YC37080
Les	1-10	YC37081-YC37090
Joe	1-10	YC37091-YC37100

NTS 105D/15
Latitude 60°55´ N; Longitude 134°50´ W

in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

by

Sarah Eaton, B.Sc. Geology
April 2008

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INTRODUCTION

The Hartless Joe property covers epithermal gold-silver prospects, mostly associated with quartz-healed vein and breccia structures. The property is located in southern Yukon and comprises 48 contiguous mineral claims. It is owned 100% by ATAC Resources Ltd.

This report describes an exploration program that was conducted intermittently between June 26 and September 28, 2007 on behalf of ATAC. The program was done in three phases: 1) prospecting and geochemical sampling by a three to four person crew working for Archer, Cathro & Associates (1981) Limited; 2) helicopter-borne variable-time domain electromagnetic (VTEM) and magnetic surveys conducted by Geotech Ltd; and 3) reconnaissance-scale induced polarization (IP) surveys done by Aurora Geosciences Ltd. The author participated in the first phase of the program and jointly supervised the other phases. Her Statement of Qualifications appear in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hartless Joe property is located in southern Yukon, 28 km northeast of Whitehorse (Figure 1). The claim block is centred at latitude 60°55´ north and longitude 134°50´ west on NTS map sheet 105D/15.

The Hartless Joe property consists of 48 contiguous mineral claims covering about 1000 ha. The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data are listed below, while the locations of individual claims are shown in Figure 2.

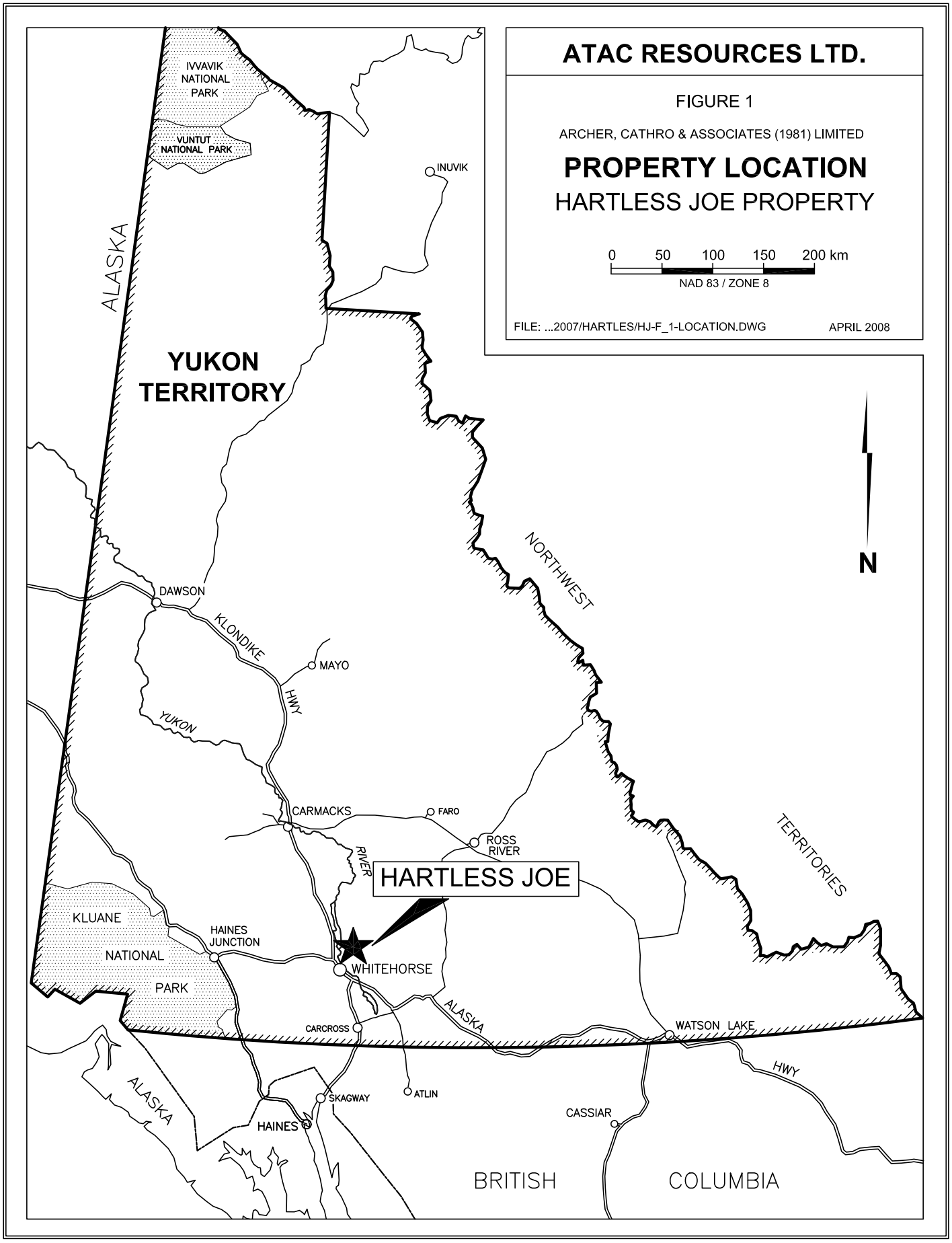
Claim Name	Grant Number	Expiry Date*
Hart 1	YC26563	March 1, 2015
2-4	YC30012-YC30014	March 1, 2015
5-28	YC37057-YC37080	March 1, 2014
Les 1-10	YC37081-YC37090	March 1, 2014
Joe 1-10	YC37091-YC37100	March 1, 2014

* Expiry dates include 2007 work that has been filed for assessment credit but not yet accepted.

Daily access to the property in 2007 was provided by helicopters operating from bases at the Whitehorse airport. The property is not directly road accessible. The closest road access is the Michie Creek road about 20 km to the south (Figure 3).

HISTORY AND PREVIOUS WORK

Previous claims (Ben 1-22), which covered parts of the Hartless Joe property, were staked by J. Smith between July 1967 and June 1969. The Ace Showing was discovered during the 1967 work project. It consists of low sulphide quartz vein float located in a north-facing cirque. Float


ATAC RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
HARTLESS JOE PROPERTY
0 50 100 150 200 km
NAD 83 / ZONE 8
FILE: ...2007/HARTLES/HJ-F_1-LOCATION.DWG
APRIL 2008
IVVAVIK NATIONAL PARK
VUNTUT NATIONAL PARK
INUVIK
ALASKA
YUKON TERRITORY
NORTHWEST
TERRITORIES
N
DAWSON
KLONDIKE HWY
MAYO
YUKON RIVER
CARMACKS
FARO
ROSS RIVER
HARTLESS JOE
KLUANE NATIONAL PARK
HAINES JUNCTION
WHITEHORSE
CARCROSS
ALASKA HWY
WATSON LAKE
ALASKA
SKAGWAY
ATLIN
HAINES
CASSIAR
BRITISH COLUMBIA

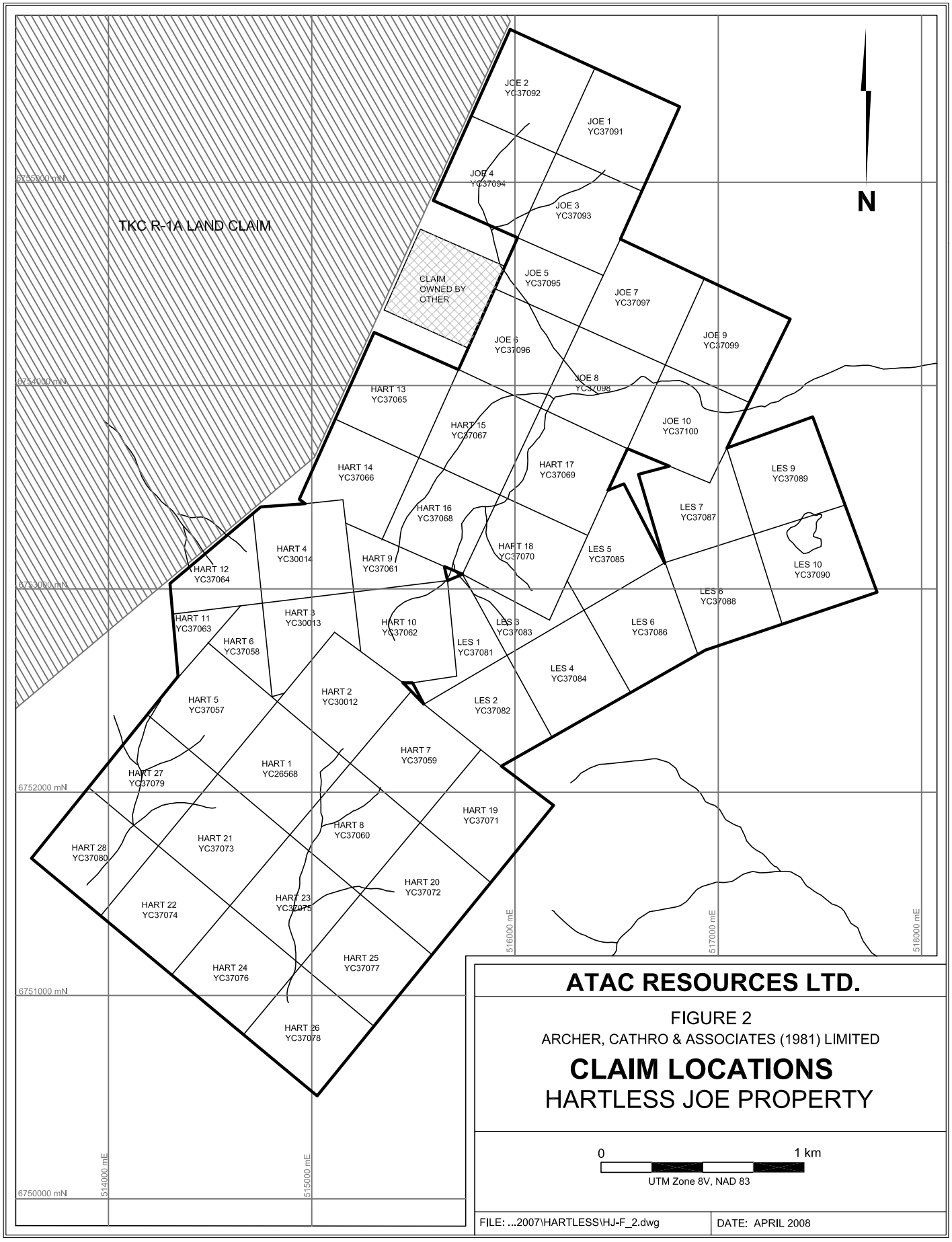


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FIGURE 2

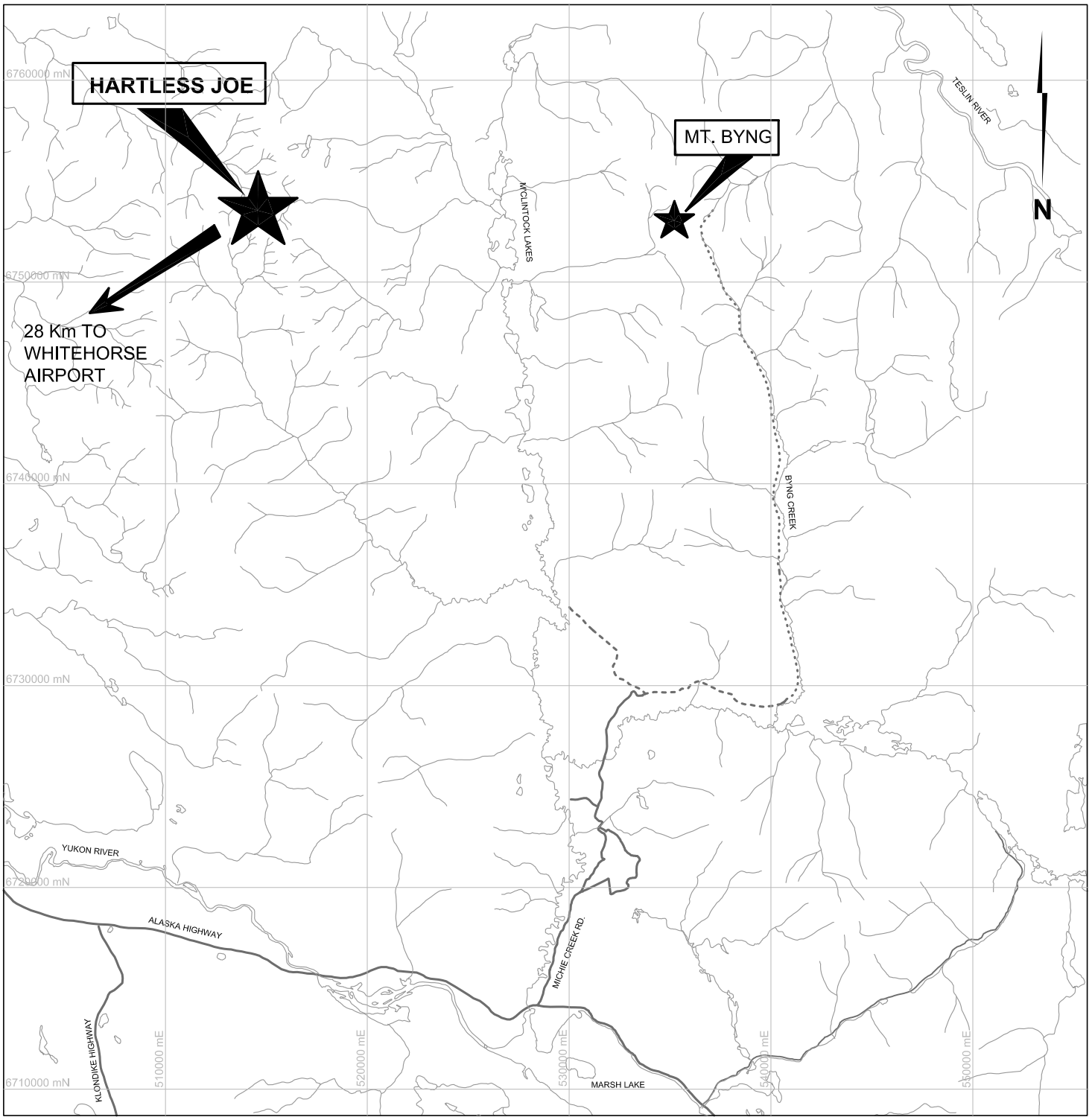
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

HARTLESS JOE PROPERTY

FILE: ...2007\HARTLESS\HJ-F_2.dwg

DATE: APRIL 2008



HIGHWAYS AND GRAVEL ROADS

WINTER ROAD

CAT ROAD

ATAC PROPERTY

ATAC RESOURCES LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY ACCESS

HARTLESS JOE PROPERTY

0 25 km

UTM ZONE 8 / NAD 83

FILE: ...HARTLESS JOE/HJ-F_3.dwg

DATE: APRIL 2007

at this showing reportedly assayed 150 g/t gold, while silicified material exposed in a trench dug on a northwest trending shear returned 27.4 g/t gold, 78.9 g/t silver, 2.2% lead and 1.9% zinc across 10 cm (Deklerk, 2003a). In 1968, Esansee Explorations Ltd. performed ground magnetic and electromagnetic geophysical surveys and soil sampling over part of the Ben claim block. The geophysical surveys suggested the presence of two gold bearing fissure veins and other possibly significant structures (Deklerk, 2003a).

In 1982, R. Simpson staked the Joe claims over the northern part of what is now the Hartless Joe property but no work was filed for assessment (Deklerk, 2003b).

No further work was done in the area until the Yukon Geological Survey discovered the Joe Creek and Grumpy Showings in 1997, approximately 1500 m west and southwest of the Ace Showing, respectively. The Joe Creek Showing is a vein developed on a splay of the Joe Creek Faults. The showing consists of banded and massive white quartz with sparsely disseminated pyrite and arsenopyrite. The vein is 0.5 to 1 m wide. The better of two grab samples returned 1.15 g/t gold, 1.2 g/t silver and 405 ppm arsenic (Deklerk, 2003b). The Grumpy Showing is described as quartz stringer and vein material associated with a 0.5 to 1.0 m wide siliceous felsic dyke within a north trending fault zone. A specimen collected by the Yukon Geological Survey yielded 10.6 g/t gold (Deklerk, 2003c).

Prospector Rob Hamel staked one claim to cover the Grumpy Showing in February 2004. ATAC purchased that claim in August 2004 and subsequently conducted one day of helicopter supported soil sampling and prospecting plus claim staking.

In July 2005, ATAC funded a program that included soil geochemical sampling, prospecting and two days of helicopter supported reconnaissance-scale stream sediment sampling. This work relocated and better defined mineralization at the Ace and Grumpy showings, discovered additional showings and partially delineated several geochemical anomalies (Wengzynowski, 2005).

GEOMORPHOLOGY

The property lies within subalpine and alpine terrain at elevations ranging from 1585 to 1850 m above sea level. Local topography consists of steep, unvegetated slopes separated by broad glacial valleys with marshy moss-covered floors. Outcrop exposures are limited to higher elevations and are most common in north-facing cirques.

The two main drainages in the area, Cap and Joe creeks, flow southwesterly into the M'Clintock and Yukon rivers, and ultimately into the Pacific Ocean. There is abundant water for camp and diamond drilling purposes on the property.

REGIONAL GEOLOGY

The Hartless Joe property lies in the northern portion of the Stikinia Terrane (Figure 4), the largest of the accreted Cordilleran terranes. In southern Yukon, the terrane is 80 km across and comprises four tectonic elements: Paleozoic Stikine assemblage, Mid-Triassic Joe Mountain

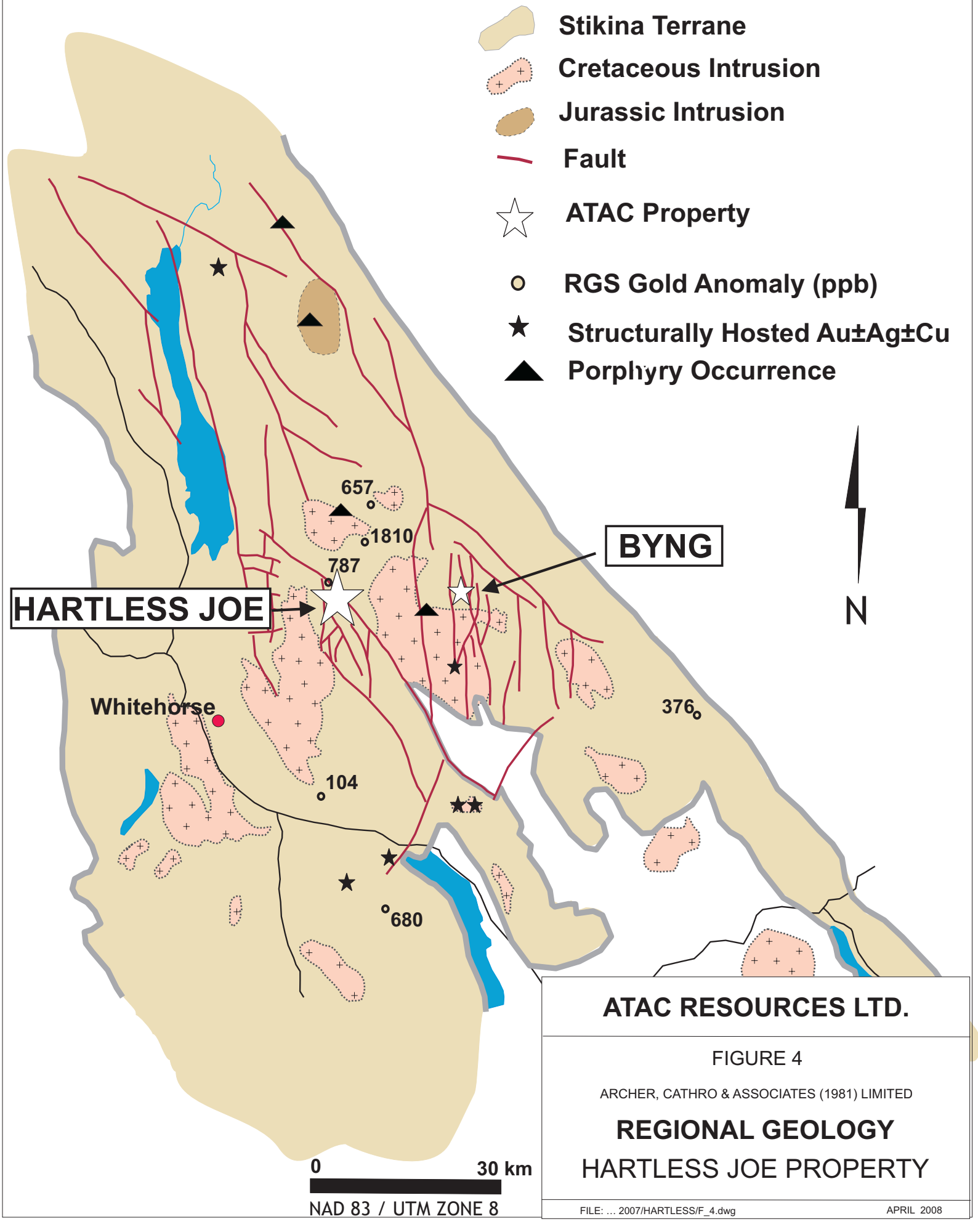


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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

HARTLESS JOE PROPERTY

FILE: ... 2007/HARTLESS/F_4.dwg

APRIL 2008

volcanics, Upper Triassic Lewes River Arc, and Upper Triassic to Mid-Jurassic Whitehorse Trough (Hart, 1997).

Basal strata in the vicinity of the property comprise mafic volcanic rocks of the Joe Mountain Formation, which is part of the 40 by 20 km Joe Mountain volcanic complex. Overlying this basement are the sedimentary rocks of the Whitehorse Trough Supergroup. The trough was a fault-bounded, marginal basin that was formed off the west coast of North America and was filled with up to seven kilometres of largely arc-derived clastic rocks. The rocks comprising the Whitehorse Trough Supergroup extend over a strike length of 600 km, spanning the area between Carmacks, Yukon and Dease Lake, British Columbia. The Whitehorse Trough Supergroup is divided into two main stratigraphic components: the Upper Triassic Aksala Formation (part of the Lewes River Group) and the Upper Triassic to Middle Jurassic formations of the Laberge Group. Locally, the Aksala Formation overlies the Joe Mountain Formation (Hart, 1997).

Several Lower Cretaceous intrusions of the Teslin Plutonic Suite and crosscutting dykes and other phases of the Mid-Cretaceous Byng Creek volcanic complex are mapped in the vicinity of the property. A complex system of imbricate faults and fault arrays are also mapped in the area. These faults cut the Byng Creek volcanic complex and in turn, are cut by a younger northwest-trending series of faults (Hart, 1997).

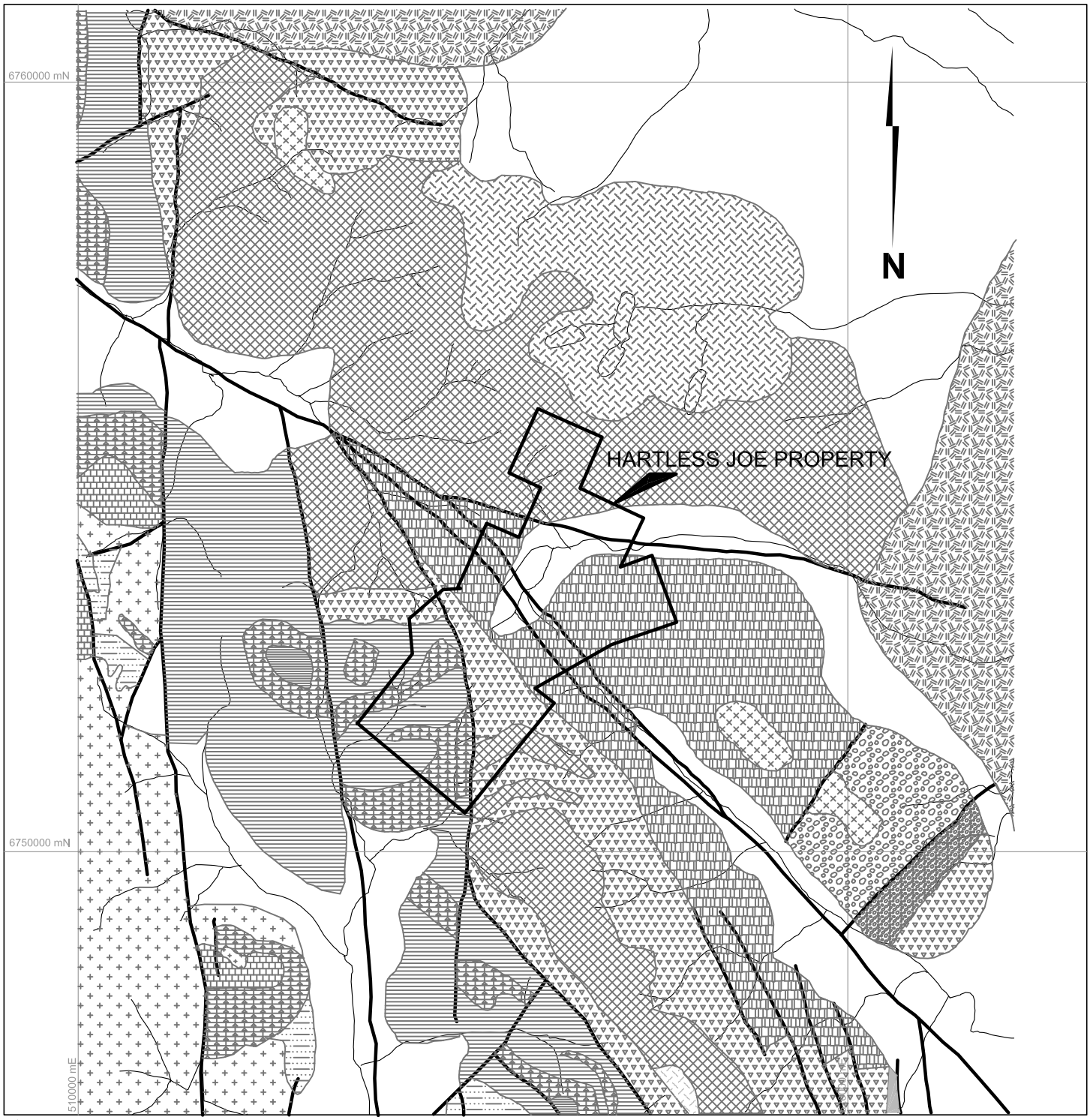
PROPERTY GEOLOGY

The Hartless Joe property is dominantly underlain by rocks of the Joe Mountain Formation, which consists of volcanic, volcanoclastic and sedimentary units. Aksala Formation sediments are found within the southern portion of the property. The nearest, large intrusive rocks are Mid-Cretaceous granodiorites of the Cap Creek Pluton and the M'Clintock Intrusion situated approximately 2 km to the west and east of the claim block, respectively. They are described as medium grained, equigranular biotite-hornblende granodiorites (Hart, 2007). Narrow felsic dykes locally intrude the volcanics and sediments.

The youngest of the formational rocks mapped on the property belong to the Aksala Formation (uTH), which consists of undifferentiated sedimentary rocks including an upper sequence of siltstone, shale, sandstone, conglomerate, diamictite and locally bioclastic limestone, marble and skarn (Hancock Member). These rocks are Upper-Triassic age. They overlie the Joe Mountain Formation or are juxtaposed against it by a series of imbricate faults (Figure 5).

Joe Mountain Formation is Mid-Triassic age. It is subdivided into four units as described in the following paragraphs (Piercey, 2005).

Unit mJM_4 is a mafic to ultramafic volcanic package characterized by coarse cumulate gabbro, which contains centimetre-scale pyroxene and plagioclase with patches of leucogabbro, anorthosite and variably altered and/or metamorphosed pyroxenite. The main style of alteration within mJM_4 features veinlets of calcite, epidote and quartz accompanied by replacement of pyroxene with chlorite and actinolite.



MODIFIED AFTER HART AND HUNT, 1997

LEGEND

MIDDLE CRETACEOUS

mKdW: Cap Creek pluton: biotite-hornblende granodiorite

mKgt: M'Clintock granodiorite: biotite-hornblende granodiorite

LOWER TO MIDDLE JURASSIC

JL: sedimentary rocks including siltstone, greywacke, minor conglomerate and limestone

JR: Richthofen formation: finely laminated turbiditic mudstone and sandstone

MIDDLE TRIASSIC

uTH: Aksala: sedimentary rocks with siltstone, shale, sandstone, conglomerate and diamictite

uTH: Hancock member: bioclastic limestone, marble and skarn, some sandy limestone

MIDDLE TRIASSIC (LADNIAN)

mJM4: cumulate gabbro pyroxenite, anorthosite and diorite, locally, some diabase dykes

mJM3: pillowed basalts, minor diabase, pillows tubular and locally with radial, concentric and tortoise shell fracturing

mJM2: assemblage of volcaniclastics and sedimentary rocks, mostly turbiditic with significant volcanic and carbonate component

mJM1 or mJM2

mTJM: pillowed basalts, some pyrite-quartz-calcite weathering

Fault structures

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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

HARTLESS JOE PROPERTY

0 5 Km

UTM ZONE 8 / NAD 83

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Unit mJM_3, the lowermost volcanic unit, is dominated by well preserved pillow basalt flows. Pillows are greenish to grey-black and typically 50 cm to 1.5 m across. They exhibit a tubular shape with radial and concentric cooling fractures. The water-lava interaction is apparent in this unit as most of the pillows exhibit tortoise shell fracturing as a consequence of rapid quenching. The large size of the flows and minimal hyaloclastic and volcaniclastic content suggest high eruption rates and very little reworking between flow events.

Unit mJM_2 consists of recessive, well bedded, tan-brown and grey-black argillite with a higher abundance of resistant hyaloclastic conglomerate, pebbly sandstone and gritty limestone beds. Parts of this unit are interpreted to have formed from a chaotic, volcanic- and carbonate-rich debris flow. This interpretation is consistent with the array of rocks described, including marble, turbidites, volcanic-derived turbidites and heterolithic conglomerates.

Unit mJM_1 is a smaller and more heavily weathered basalt than mJM_3. The mJM_1 pillows are densely packed, very fine- to medium-grained, dark grey to black and glassy with radial cooling fractures.

The claim block is bisected by a number of northwest trending arcuate, large scale faults that coincide with mildly to moderately recessive topographic linears. The Joe Creek and Grumpy showings occur along two of these structures. Smaller scale, north- and northeast-trending fault arrays horsetail from the main fault structures. The magnitude of displacement and direction of movement are unknown at this time. Some of the faults acted as conduits for emplacement of narrow intrusive dykes. Airphoto and land satellite imagery suggest there may be deep-seated ring structures immediately northwest of the claim block from which the northwest trending faults are emanating.

MINERALIZATION

Historical showings on the property were relocated and re-sampled in 2005. In addition, two new areas of mineralization were discovered within the central and northern parts of the claim block. Prospecting in 2007 identified another showing and expanded one of the known showings. The gold ± silver mineralization is dominantly vein hosted but stratigraphically controlled mineralization and silica- and carbonate-healed breccias are also present.

Forty-eight rock samples were collected on the property during the 2005 exploration program. During the 2007 exploration program, a further 45 rock samples were collected. The 2007 sampling did not target known showings, but rather, explored elsewhere on the property in order to find new areas of mineralization.

All of the 2005 and 2007 samples were submitted to ALS Chemex in North Vancouver, British Columbia where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split was then pulverized to better than 85% passing 75 micron. A portion of this material was digested in aqua regia and analysed for 34 elements by inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). Another portion was used to produce a 30 g charge that was analyzed for gold by fire assay followed by inductively coupled plasma or

atomic absorption finish (AU-ICP21 or AU-AA23). Certificates of Analysis are in Appendix II. Sample locations and results are shown on Figure 6.

Vein Mineralization

Vein material on the property exhibits a number of distinctive features. Quartz is generally white to pale orange-tan in colour, opaque and crystalline. Carbonate comprises only a minor component. Faint comb texture is observed in some specimens and sulphide minerals occur as weak disseminations to thin millimetre-scale ribbon bands. The total sulphide content typically ranges from less than 1% to a maximum of 10%, averaging about 3%.

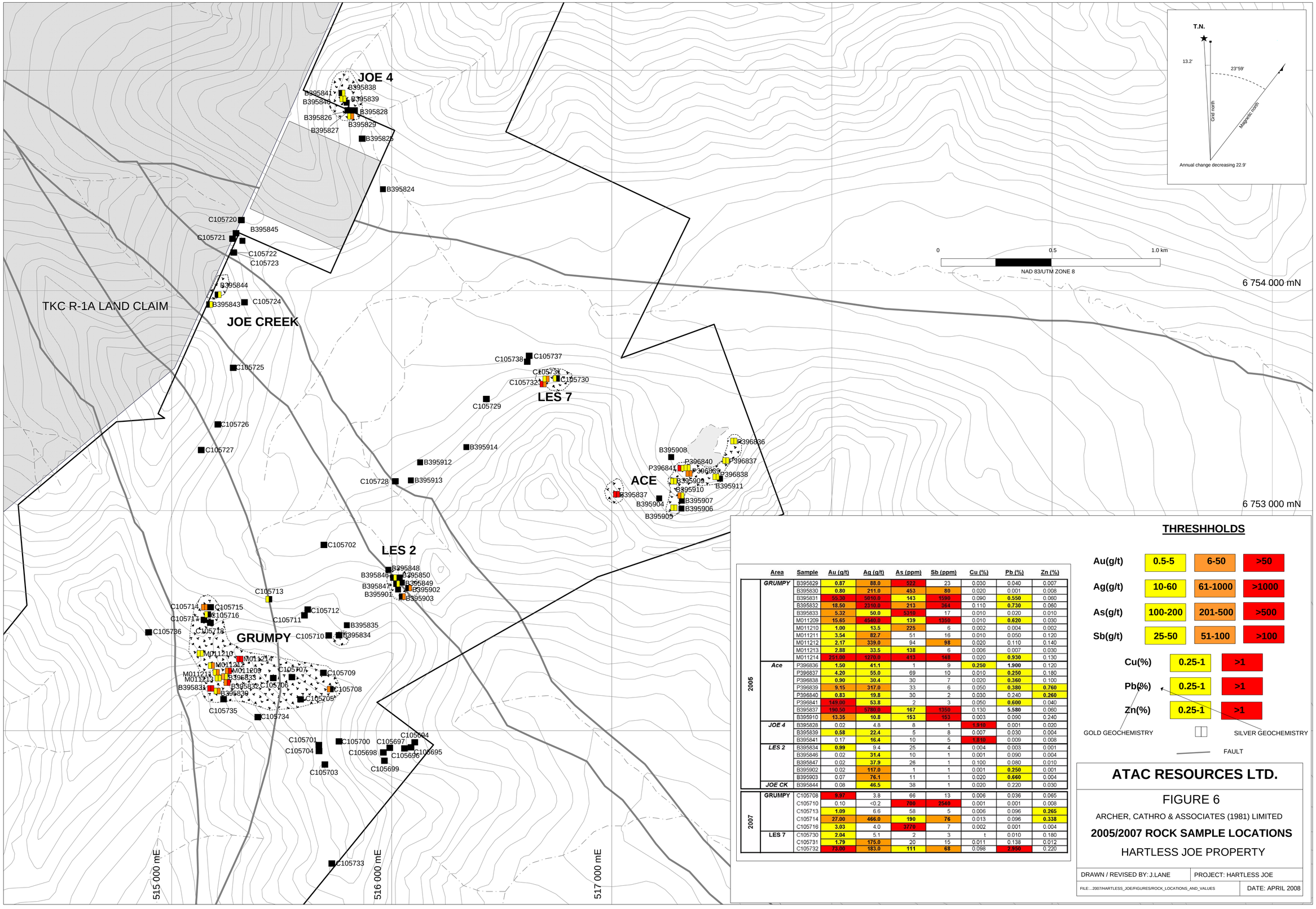
Easily identifiable sulphide species are pyrite, galena, arsenopyrite, chalcopyrite and sphalerite. Microscopic examination of polished sections revealed the presence of unidentified grey and black minerals around the edges of known sulphides (H. Smith, pers. comms.). These minerals are suspected to be tellurides and sulphosalts. Alteration assemblages developed along vein margins primarily consist of sericite and chlorite. Fluid inclusion work done on several samples returned inconclusive results; however, textural observations noted growth zoning which is typically developed in epithermal systems (M. Pollaquin, pers. comms.).

In 2007, a new vein showing, referred to as Les 7, was discovered as float material in the eastern part of the property. Samples from Les 7 returned values up to 73 g/t gold, 183 g/t silver, 111 ppm arsenic, 3 ppm antimony, 0.35% copper, 2.95% lead and 0.22% zinc.

Vein mineralization has now been documented in six locations on the property, known as the Grumpy, Ace, Joe Creek, Joe 4, Les 2, and Les 7 showings. During the 2005 and 2007 programs none of the mineralized material was sampled *in situ*, but float trains were traced close to what is believed to be their respective sources. The locations of the showings are illustrated on Figure 6. Table I displays the most significant assay results from the various showings.

Table I - Vein Mineralization

Showing	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Grumpy	B395829	0.87	88.0	522	23.0	0.030	0.040	0.007
	B395830	0.80	211.0	453	80	0.020	0.001	0.008
	B395831	55.30	5010.0	143	1590	0.090	0.550	0.060
	B395832	18.50	2310.0	213	364	0.110	0.730	0.060
	B395833	5.32	50.0	5310	17	0.010	0.020	0.010
	M011209	15.65	4540.0	139	1350	0.010	0.620	0.030
	M011210	1.00	13.5	225	6	0.002	0.004	0.002
	M011211	3.54	82.7	51	16	0.010	0.050	0.120
	M011212	2.17	339.0	94	98	0.020	0.110	0.140
	M011213	2.88	33.5	138	6	0.006	0.007	0.030
	M011214	251.00	1270.0	413	148	0.020	0.930	0.130
	C105708	9.97	3.8	66	13	0.006	0.036	0.065
	C105710	0.10	<0.2	700	2540	0.001	0.001	0.008



THRESHHOLDS

Au(g/t)	0.5-5	6-50	>50
Ag(g/t)	10-60	61-1000	>1000
As(g/t)	100-200	201-500	>500
Sb(g/t)	25-50	51-100	>100
Cu(%)	0.25-1		>1
Pb(%)	0.25-1		>1
Zn(%)	0.25-1		>1

GOLD GEOCHEMISTRY — SILVER GEOCHEMISTRY

FAULT

	Area	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
2006	GRUMPY	B395829	0.87	88.0	522	23	0.030	0.040	0.007
		B395830	0.80	211.0	453	80	0.020	0.001	0.008
		B395831	55.30	5010.0	143	1590	0.090	0.550	0.060
		B395832	18.50	2340.0	213	384	0.110	0.730	0.080
		B395833	5.32	50.0	5310	17	0.010	0.020	0.010
		M011209	15.65	4540.0	139	1350	0.010	0.620	0.030
		M011210	1.00	13.5	225	6	0.002	0.004	0.002
		M011211	3.54	82.7	51	16	0.010	0.050	0.120
		M011212	2.17	339.0	94	98	0.020	0.110	0.140
		M011213	2.88	33.5	138	6	0.006	0.007	0.030
		M011214	231.00	1270.0	413	148	0.020	0.930	0.130
	Ace	P396836	1.50	41.1	1	9	0.250	1.900	0.120
		P396837	4.20	55.0	69	10	0.010	0.250	0.180
		P396838	0.90	30.4	30	7	0.020	0.360	0.100
		P396839	9.15	317.0	33	6	0.050	0.380	0.760
		P396840	0.83	19.8	30	2	0.030	0.240	0.260
		P396841	149.00	53.8	2	3	0.050	0.600	0.040
		B395837	190.50	5780.0	167	1350	0.130	5.580	0.060
		B395910	13.35	10.8	153	153	0.003	0.090	0.240
	JOE 4	B395828	0.02	4.8	8	1	1.810	0.001	0.020
		B395839	0.58	22.4	5	8	0.007	0.030	0.004
		B395841	0.17	16.4	10	5	1.810	0.009	0.008
	LES 2	B395834	0.99	9.4	25	4	0.004	0.003	0.001
		B395846	0.02	31.4	10	1	0.001	0.090	0.004
		B395847	0.02	37.9	26	1	0.100	0.080	0.010
		B395902	0.02	117.0	1	1	0.001	0.250	0.001
		B395903	0.07	76.1	11	1	0.020	0.660	0.004
	JOE CK	B395844	0.08	46.5	38	1	0.020	0.220	0.030
2007	GRUMPY	C105708	9.87	3.8	66	13	0.006	0.036	0.065
		C105710	0.10	<0.2	709	2540	0.001	0.001	0.008
		C105713	1.09	6.6	58	5	0.006	0.096	0.265
		C105714	27.00	466.0	190	76	0.013	0.096	0.338
		C105716	3.03	4.0	3770	7	0.002	0.001	0.004
	LES 7	C105730	2.04	5.1	2	3	t	0.010	0.180
		C105731	1.79	175.0	20	15	0.011	0.138	0.012
		C105732	73.00	183.0	111	68	0.098	2.930	0.220

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

2005/2007 ROCK SAMPLE LOCATIONS

HARTLESS JOE PROPERTY

DRAWN / REVISED BY: J.LANE	PROJECT: HARTLESS JOE
FILE:...2007\HARTLESS_JOE\FIGURES\ROCK_LOCATIONS_AND_VALUES	DATE: APRIL 2008

	C105713	1.09	6.6	58	5	0.006	0.096	0.265
	C105714	27.00	466.0	190	76	0.013	0.096	0.338
	C105716	3.03	4.0	3770	7	0.002	0.001	0.004
Ace	P396836	1.50	41.1	1	9	0.250	1.900	0.120
	P396837	4.20	55.0	69	10	0.010	0.250	0.180
	P396838	0.90	30.4	30	7	0.020	0.360	0.100
	P396839	9.15	317.0	33	6	0.050	0.380	0.760
	P396840	0.83	19.8	30	2	0.030	0.240	0.260
	P396841	149.00	53.8	2	3	0.050	0.600	0.040
	B395837	190.50	5780.0	167	1350	0.130	5.580	0.060
	B395910	13.35	10.8	153	153	0.003	0.090	0.240
Joe 4	B395828	0.02	4.8	8	1	1.910	0.001	0.020
	B395839	0.58	22.4	5	8	0.007	0.030	0.004
	B395841	0.17	16.4	10	5	1.810	0.009	0.008
Les 2	B395834	0.99	9.4	25	4	0.004	0.003	0.001
	B395846	0.02	31.4	10	1	0.001	0.090	0.004
	B395847	0.02	37.9	26	1	0.100	0.080	0.010
	B395902	0.02	117.0	1	1	0.001	0.250	0.001
	B395903	0.07	76.1	11	1	0.020	0.660	0.004
Joe Ck	B395844	0.08	46.5	38	1	0.020	0.220	0.030
Les 7	C105730	2.04	5.1	2	3	trace	0.010	0.180
	C105731	1.79	175.0	20	15	0.011	0.138	0.012
	C105732	73.00	183.0	111	68	0.098	2.950	0.220

Stratigraphic Mineralization

Two types of stratigraphically controlled mineralization are recognized on the property. The first type occurs as quartz floods roughly parallel to bedding and foliation in the volcanic rock units and metasediments. Mineralization consists predominantly of fine grained pyrite with varying lesser amounts of sphalerite, galena and chalcopyrite, which occur both with the quartz and within the adjacent wallrocks.

The second type of stratigraphically controlled mineralization is jasper developed within units uTH and mJM_3. It has been interpreted as a laterally extensive hydrothermal precipitate that occurs as drapings around pillow lavas (Piercey, 2005). This material is typically dark to medium red and texturally amorphous, but some specimens contain clusters of finely disseminated magnetite and stringers of clear glassy secondary silica. At one locale, silica has replaced what appears to be fan shaped coral. Table II lists results from stratigraphically controlled mineralization sampled in three areas on the property.

Table II - Stratigraphic Mineralization

Showing	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Grumpy	B395830	0.80	211.0	453	80	0.02	Trace	0.01
	B395833	5.32	50.0	5310	17	0.01	0.02	0.01
Ace	P396839	9.15	317.0	33	6	0.05	0.38	0.76
Les 2	B395834	0.99	9.4	25	4	Trace	Trace	Trace
	B395903	0.07	76.1	11	1	0.02	0.66	Trace

Breccia Mineralization

Breccias are pale to medium green and consist mostly of crackled volcanics healed with varying amounts of silica and carbonate (calcite). They are commonly mineralized with disseminated to blebby pyrite, pyrrhotite and chalcopyrite. Only two samples of this type of mineralization were collected and the results are illustrated on Table III.

Table III - Breccia Mineralization

Showing	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Joe 4	B395839	0.58	22.4	5	8	0.01	0.03	Trace
	B395841	0.17	16.4	10	5	1.81	0.01	0.01

SOIL GEOCHEMISTRY

General

Regional stream sediment geochemical surveys have yielded intermittent strongly anomalous values in the vicinity of the Hartless Joe Property. The values range up to 1810 ppb gold, 0.4 ppm silver,
120 ppm copper and 244 ppb mercury (Heon, 2003).

In 2005, soil sampling was carried out between the Grumpy and Ace showings within an irregularly shaped block measuring roughly 2300 by 800 m. The survey used a combination of contour and grid sampling, which resulted in fairly cohesive coverage with lines spaced 100 m apart and samples collected at 50 m intervals along them. In addition, several isolated contour lines were sampled elsewhere on the property, mostly along hillsides or in recessive linears believed to coincide with fault structures. A total of about 600 samples were collected during the program.

The 2005 soil samples were sent to ALS Chemex where they were dried and sieved to -180 microns. A portion of each sample was then digested in aqua regia and analysed for 34 elements by the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An

additional 30 g charge was further analysed for gold by fire assay and atomic absorption spectroscopy finish (Au-AA23).

In 2007, 297 additional soil geochemical samples were taken on the property. An 1100 by 700 m grid was established over the main ridge on the property, covering the Grumpy and Les 2 showings. Additional contour soil sampling was also done.

The 2007 samples were sent to ALS Chemex where they were dried, screened to –180 microns, dissolved in a four acid solution and then analyzed for 47 elements using a combination of inductively coupled plasma-mass spectroscopy and inductively coupled plasma-atomic emission spectroscopy techniques (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Certificates of Analysis appear in Appendix II.

All 2005 and 2007 grid and contour soil samples were located by means of compass and hip-chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 30 cm deep holes dug by mattock. They were placed into individually pre-numbered kraft paper bags.

Most of the soil samples were collected from slopes ranging from 10° to 40° They are generally of two types: poorly developed B or C Horizon soils in grassy valley bottoms and areas of low relief that are mantled by glacial till, or C Horizon talus fines from steeper slopes with little soil development and minimal vegetation cover. Soil type was not differentiated or recorded for any of the samples.

The 2005 and 2007 soil sample locations are plotted on Figure 7, while results for gold, silver, arsenic, antimony, copper, lead and zinc appear on Figures 8 through 14, respectively.

Results

Isolated high gold values are scattered across the property. The largest cluster of anomalous values occurs in the vicinity of the Grumpy Showing. Gold-in-soil values in some areas where well mineralized float was discovered are surprisingly low but numerous analyses from the area exceeded 100 ppb. The highest gold value from the property (1390 ppb) came from a hillside 2 km north of the Grumpy Showing.

Silver, lead and copper exhibit the strongest responses of the indicator elements forming clusters up to 300 m long near a number of the showings. Arsenic and antimony are weakly to moderately elevated in the vicinity of the Grumpy and Les 2 showings. Zinc is subdued across most of the survey area.

Results from the 2007 soil sampling program better defined some of the targets identified in 2005 and discovered new areas of interest.

TKC R-1A LAND CLAIM

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

HART 13

LES 7

ACE

LES 2

GRUMPY

6 753 000 mN

6 751 000 mN

PROPERTY BOUNDARY

Area containing anomalous gold-silver bearing rock samples

2005 Soil sample

2007 Soil sample

ATAC RESOURCES LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SOIL SAMPLE LOCATIONS 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ-F_7

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

2,230

TKC R-1A LAND CLAIM

JOE CREEK

500

LES 7

504

ACE

6 753000 mN

LES 2

GRUMPY

513

1,370

598

931

PROPERTY BOUNDARY

6 751000 mN

Gold (ppb)

- ≥500 < 2,230
- ≥200 < 500
- ≥100 < 200
- ≥50 < 100
- ≥20 < 50
- 0 < 20

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Au_soil

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

TKC R-1A LAND CLAIM

JOE CREEK

LES 7

ACE

6 753000 mN

LES 2

5.5

GRUMPY

6.3

5.0

8.6

PROPERTY BOUNDARY

6 751000 mN

Silver (ppm)

- ≥5.0 < 8.6
- ≥2.0 < 5.0
- ≥1.0 < 2.0
- ≥0.5 < 1.0
- ≥0.2 < 0.5
- 0 < 0.2

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Ag_soil

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

TKC R-1A LAND CLAIM

JOE CREEK

775

LES 7

657

717

718

ACE

6 753000 mN

LES 2

GRUMPY

PROPERTY BOUNDARY

6 751000 mN

Copper (ppm)

- ≥500 < 775
- ≥200 < 500
- ≥100 < 200
- ≥50 < 100
- ≥20 < 50
- 0 < 20

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Cu_soil.WOR

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim Owned by Others

TKC R-1A LAND CLAIM

JOE CREEK

LES 7

ACE

6 753000 mN

LES 2

GRUMPY

1,400

779

PROPERTY BOUNDARY

6 751000 mN

Arsenic (ppm)

- ≥500 < 1,400
- ≥200 < 500
- ≥100 < 200
- ≥50 < 100
- ≥20 < 50
- 0 < 20

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_As_soil

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

TKC R-1A LAND CLAIM

JOE CREEK

LES 7

ACE

6 753000 mN

LES 2

GRUMPY

13

16

10

13

PROPERTY BOUNDARY

6 751000 mN

Antimony (ppm)

- ≥10.0 < 16.0
- ≥5.0 < 10.0
- ≥2.0 < 5.0
- ≥1.0 < 2.0
- ≥0.5 < 1.0
- ≥0 < 0.5

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Sb_soil.WOR

DATE: NOVEMBER 2007

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

TKC R-1A LAND CLAIM

JOE CREEK

LES 7

ACE

6 753000 mN

LES 2

GRUMPY

247

PROPERTY BOUNDARY

6 751000 mN

Lead (ppm)

- ≥200 < 247
- ≥100 < 200
- ≥50 < 100
- ≥20 < 50
- ≥10 < 20
- 0 < 10

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Pb_soil

DATE: APRIL 2008

517 000 mE

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

JOE 4

Claim
Owned by
Others

TKC R-1A LAND CLAIM

JOE CREEK

LES 7

ACE

6 753000 mN

LES 2

GRUMPY

1,100

PROPERTY BOUNDARY

6 751000 mN

Zinc (ppm)

- ≥500 < 1,100
- ≥200 < 500
- ≥100 < 200
- ≥50 < 100
- ≥20 < 50
- 0 < 20

Area containing anomalous gold-silver bearing rock samples

Fault

ATAC RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC SOIL GEOCHEMISTRY 2005 & 2007

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2007\Hartless_Joe\Figures\HJ_combo_Zn_soil

DATE: APRIL 2008

GEOPHYSICAL SURVEYS

VTEM and Magnetics

In September 2007, Geotech conducted helicopter-borne VTEM and magnetic surveys across the property using an Astar B3 helicopter contracted from TRK Helicopters Ltd. of Langley, B.C. Details concerning survey techniques, equipment used and data interpretation are contained in two reports by Geotech, which are reproduced along with CD's containing the digital survey data, in Appendix IV.

The surveys covered about 13 km^2 area and totalled 170 line kilometres. The survey lines were flown at a constant speed of 80 km/hr and an average ground clearance of 90 m. The traverse lines are aligned east-west and the tie lines north-south. The traverse lines are spaced 100 m apart and the tie lines are 1000 m apart.

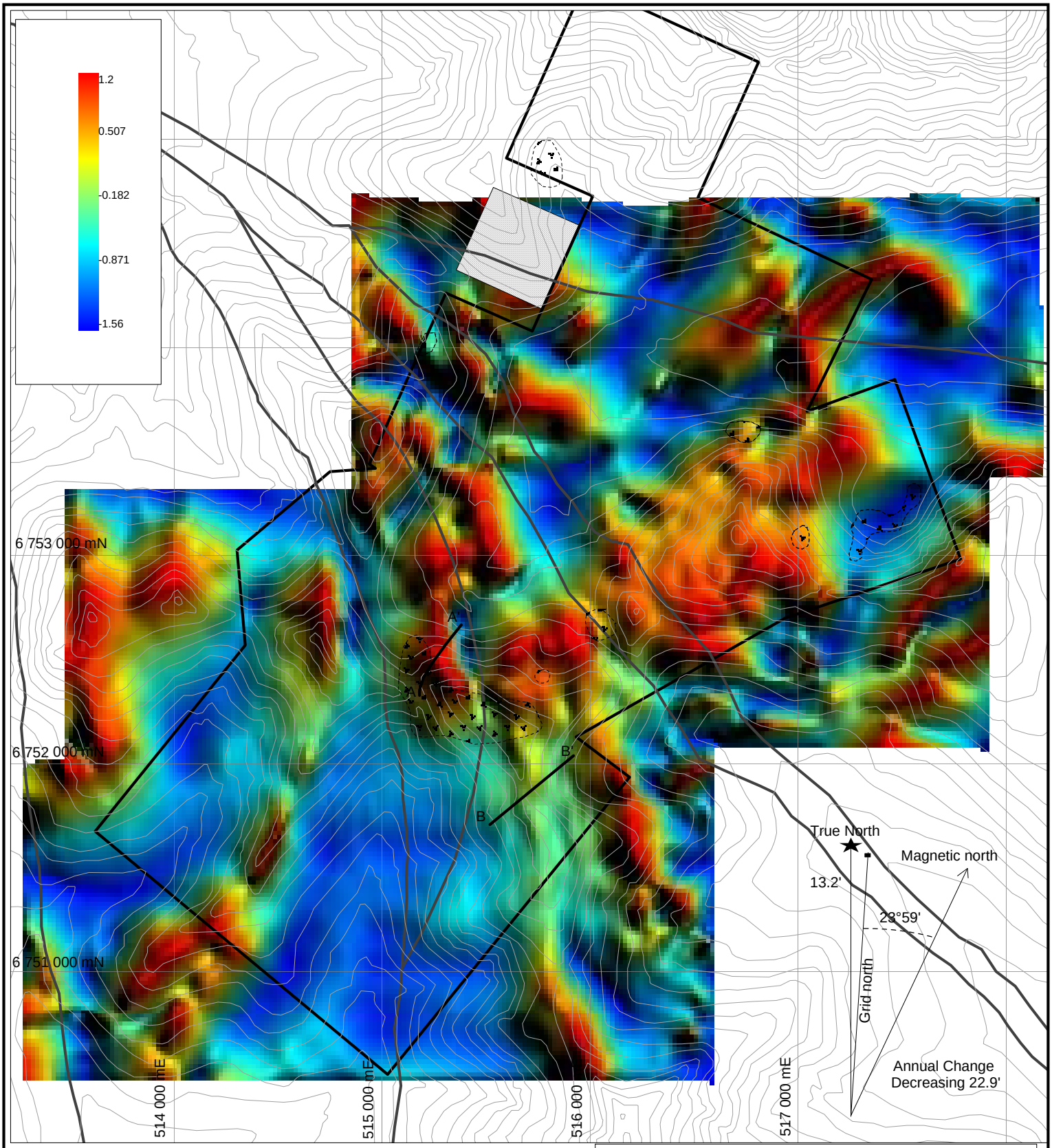
The total field magnetic values at the Hartless Joe property range from 56900 nT to 58400 nT, which is characterized as high activity. Most of the highest values are in areas underlain by mafic volcanic units in the northern and eastern parts of the property. An isolated ovoid high in the southwestern corner of the property could be a buried mafic pluton. There is a general north- to northwest-trending fabric to the anomalies, and some of the lows correspond with known fault structures (Figure 15).

VTEM response is quiet except for an anomaly in the southwestern part of the property, which is mostly underlain by sediments (Figure 16). The anomaly is about 500 m long and 200 m wide and is weakly conductive. It could represent a shallowly dipping skarn horizon containing disseminated sulphide minerals. The anomaly is located in a fault bounded block about 500 m southwest of the Grumpy Showing and 500 m northeast of the isolated magnetic that is interpreted as a buried mafic pluton. The conductor is about 150 m below surface (Figure 17).

Induced Polarization

On September 8 and 9, Aurora Geosciences Ltd. performed induced polarization and resistivity (IP) surveys on two lines near the Grumpy Showing. The lines were 600 m and 700 m long respectively and were located about 520 m apart (Figures 6, 8 and 16). Aurora's report describing work performed, equipment used and results obtained is reproduced in Appendix V along with a CD containing the digital IP data.

The more westerly line (L4930E) features a large anomaly with low chargeability that is suggestive of dominantly pyritic, stratigraphically controlled mineralization. The highest chargeability reading was obtained at the south end of the line where well mineralized vein float has been discovered (Figure 18). The easterly line (L5450E) identified what appears to be a lithological boundary (probably a fault) near a ridge crest, with more conductive rocks on its north side. Three chargeability/conductive features are modelled to come to surface in areas where strong gold-in-soil geochemical anomalies have been outlined. A deeper, stronger chargeability anomaly is open to depth (Figure 18).



Mineralized showing

Fault structures

IP line

ATAC RESOURCES LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COLOUR SHADED RELIEF OF THE VERTICAL GRADIENT OF THE MAGNETIC FIELD

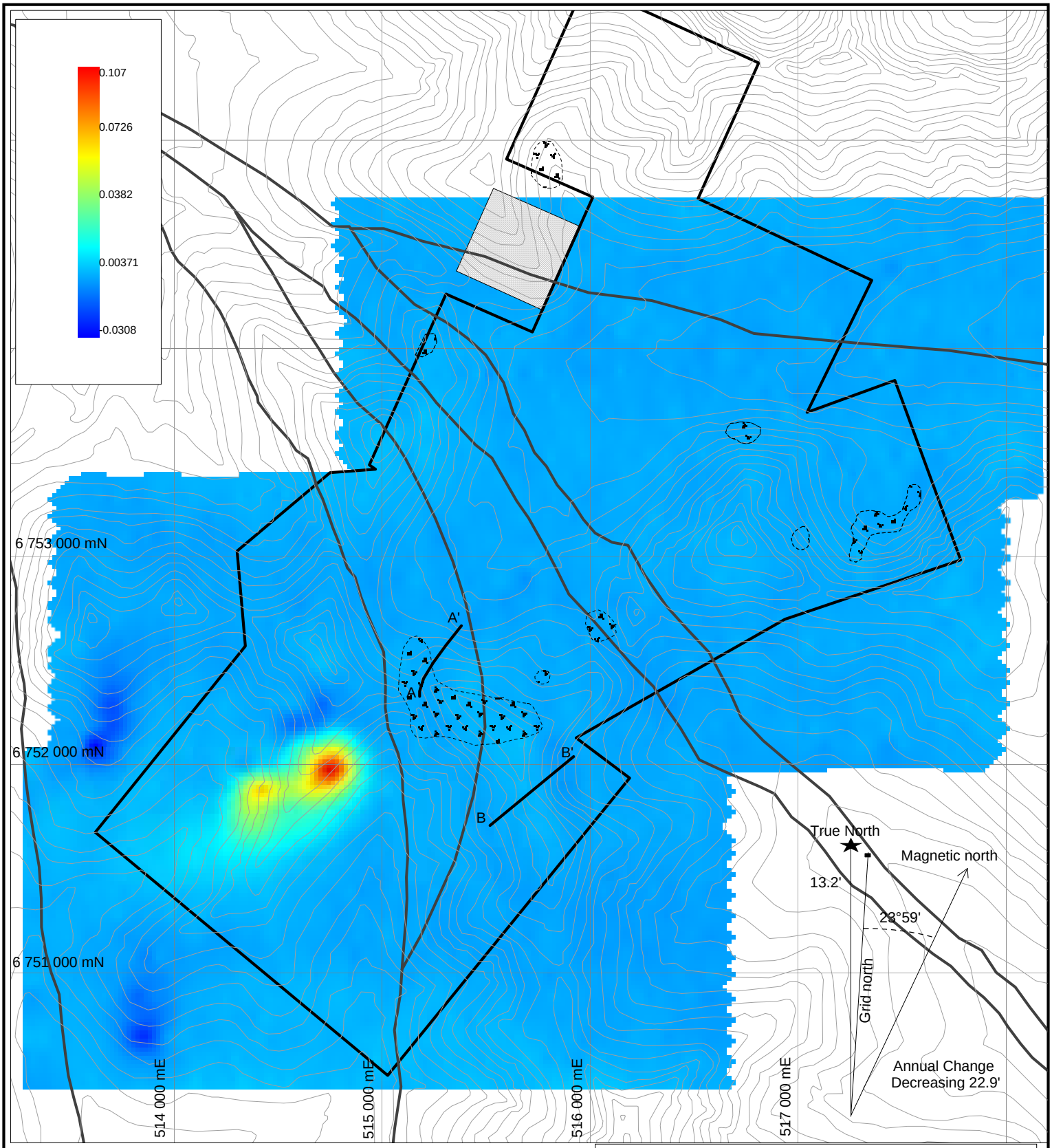
HARTLESS JOE PROPERTY

0 0.25 1.5 km

UTM ZONE 8V, NAD 83, 105N/09 & 105O/12

FILE: ...2007/HARTLESS/F_15-MAG_v.WOR

DATE: APRIL 2008



Mineralized showing

Fault structures

IP line

ATAC RESOURCES LTD.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

B-FIELD CHANNEL IMAGE

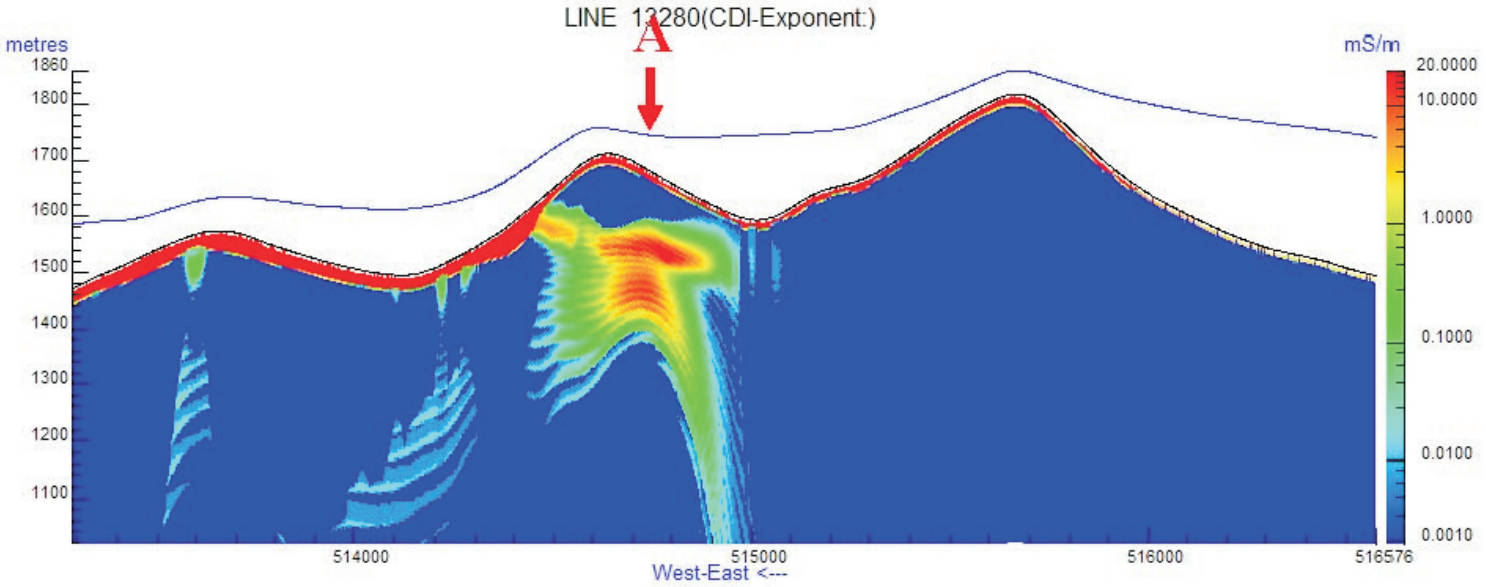
HARTLESS JOE PROPERTY

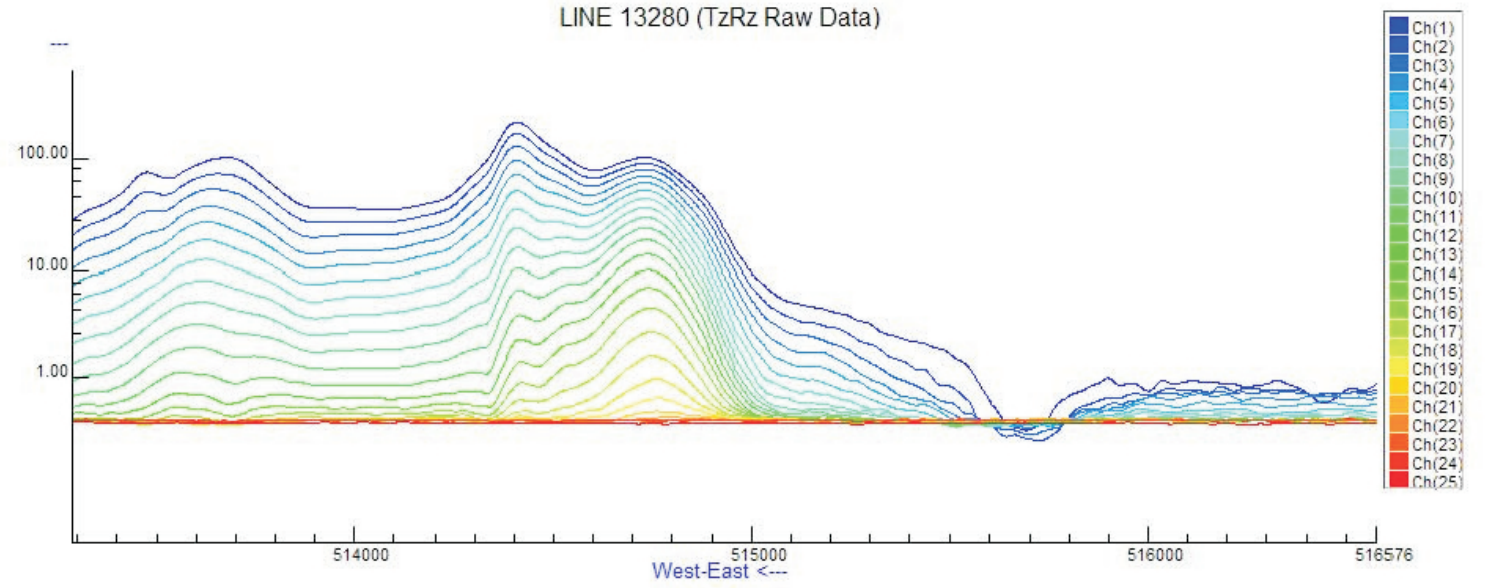
0 0.25 1.5 km

UTM ZONE 8V, NAD 83, 105N/09 & 105O/12

FILE: ...2007/HARTLESS/F_15-MAG_v.WOR

DATE: APRIL 2008





ATAC RESOURCES LTD.

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

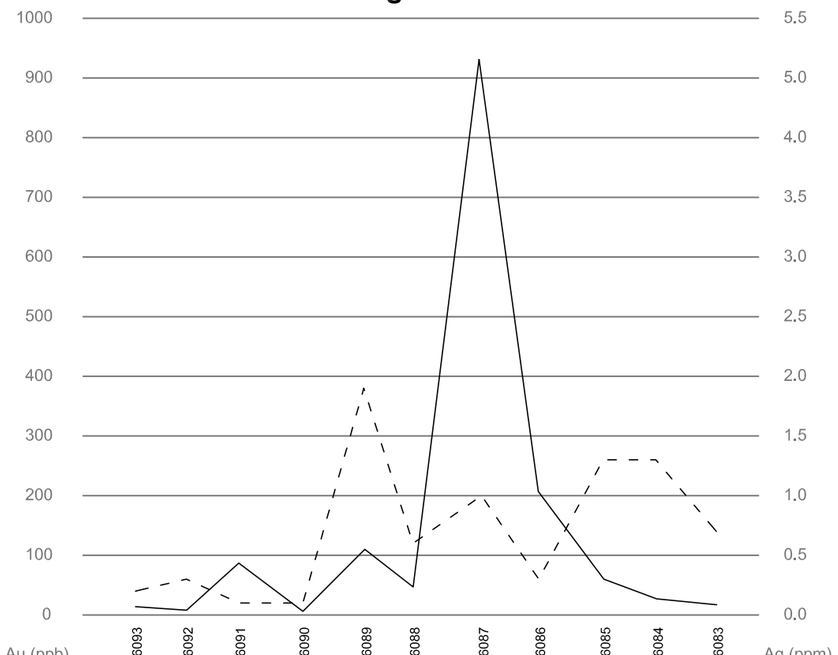
CDI SECTION L13280

HARTLESS JOE PROPERTY

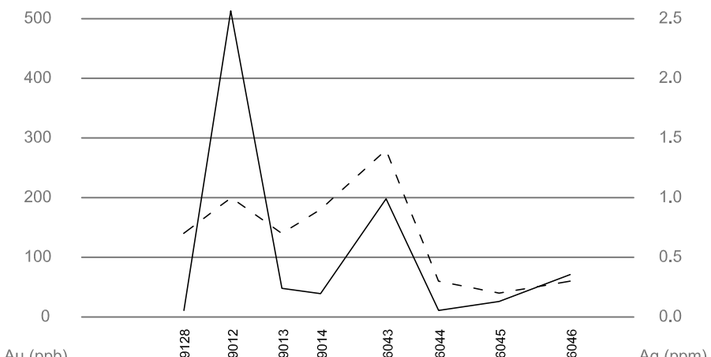
FILE: ... 2007/HARTLESS/F_17.dwg

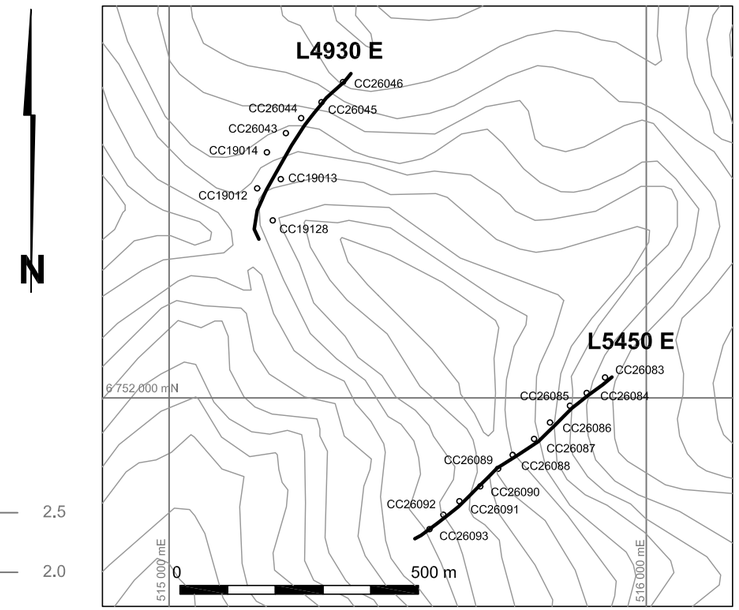
APRIL 2008

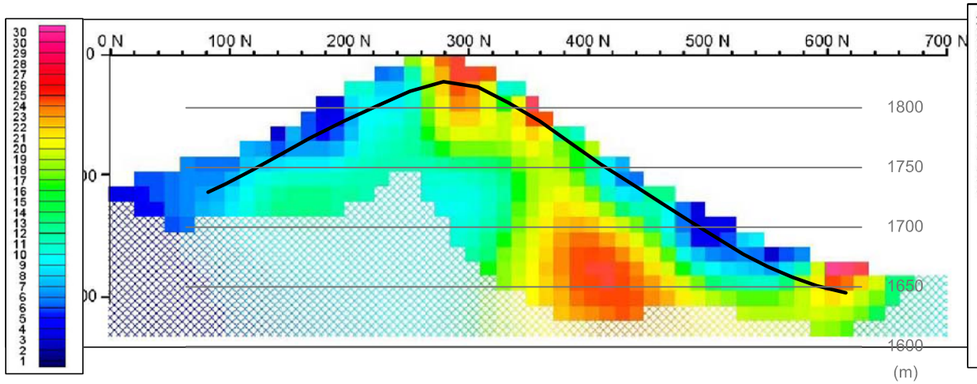
L5450 E
Looking Northwest

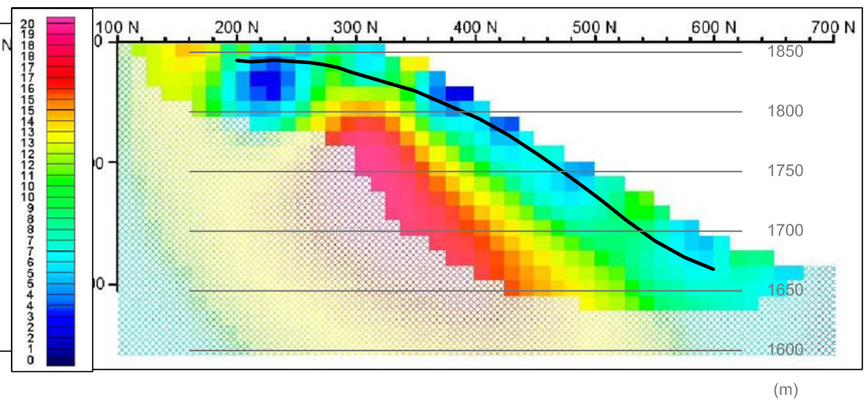


L4930 E
Looking Northwest









ATAC RESOURCES LTD.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MODELLED CHARGEABILITY

HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 115D/15

DRAWN / REVISED BY: MRD	
FILE: ...2007/HARTLESS/F_18-IP.DWG	DATE: APRIL 2008

DISCUSSION AND CONCLUSION

The Hartless Joe property is predominantly underlain by Triassic-age volcanic and sedimentary rocks of the Stikinia Terrane. Similar units in the same terrane host a number of epithermal, low sulphidation gold and/or silver deposits in northern British Columbia. Numerous strong faults provide a good plumbing system for hydrothermal fluids while nearby Cretaceous age plutons could have provided heat to power the hydrothermal system.

Soil geochemical sampling has identified numerous anomalies with gold and differing combinations of pathfinder elements, but generally poor soil development makes interpretation of the data difficult. Similarly, prospecting has discovered a number of well mineralized specimens, the relative lack of outcrop coupled with thick overburden makes identification of bedrock sources difficult.

The magnetic survey identified a number of northerly and northwesterly trending lows that approximately correspond with some known fault structures and outlined a small ovoid high in the southwestern part of the property that could represent a buried mafic pluton. The VTEM survey returned generally subdued response, except for a 500 m by 200 m, weakly conductive area located about 500 southwest of the Grumpy Showing and about 500 m northeast of the possible mafic pluton. This conductor could be due to a skarnified horizon containing disseminated sulphide mineralization.

The two IP lines both identified chargeability anomalies beneath areas of mineralized float and anomalous soil geochemistry. IP appears to be an effective exploration technique, but the steep and rocky terrain found in many parts of the property limits its usefulness.

Based on the favourable geological setting and evidence of gold- and silver-rich, epithermal-style mineralization a three hole diamond drill program is recommended. At least one hole should be drilled into the core of the VTEM anomaly. The other two holes should test the chargeability anomalies identified by the IP surveys. The work should be done from Whitehorse with daily helicopter support.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sarah Eaton, B.Sc. (Hon.) Geology

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APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Sarah Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.

2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.

3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.

Sarah Eaton, B.Sc. (Hon.) Geology

APPENDIX II

CERTIFICATES OF ANALYSIS

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **ATAC RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2007
Account: RCM

CERTIFICATE VA07070758

Project: Hartles Joe

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-JUL-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **ATAC RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 28-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07070758

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
C105733		0.42	>10.0	11.85	8.4	0.07	156	<10	10	<0.5	<2	0.05	1.7	3	8	77
C105734		0.40	1.490		1.2	0.08	102	<10	10	<0.5	<2	0.28	0.5	2	8	21
C105735		0.36	2.73		3.8	0.13	205	<10	40	<0.5	<2	1.45	<0.5	5	11	5
C105736		0.14	0.021		<0.2	0.04	<2	<10	50	<0.5	<2	>25.0	<0.5	<1	2	2
C105737		0.52	0.015		1.0	2.55	<2	<10	<10	<0.5	<2	0.61	<0.5	42	54	3510
C105738		0.38	0.010		0.4	0.51	<2	<10	<10	<0.5	2	0.22	<0.5	47	15	166

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Finalized Date: 28-JUL-2007
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Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07070758

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
C105733		1.68	<10	<1	0.03	<10	0.02	29	1	<0.01	2	40	261	0.01	<2	1
C105734		0.69	<10	<1	0.05	<10	0.01	80	<1	<0.01	2	10	16	0.06	5	<1
C105735		1.40	<10	<1	0.08	<10	0.03	463	1	0.01	13	30	13	<0.01	<2	2
C105736		0.22	<10	<1	0.02	<10	0.20	99	2	0.02	6	60	3	0.02	<2	<1
C105737		10.85	10	<1	<0.01	<10	2.55	979	17	0.04	36	490	3	5.96	<2	5
C105738		10.35	<10	<1	<0.01	<10	0.48	209	2	0.04	8	90	3	9.26	<2	3

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Project: Hartles Joe

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CERTIFICATE OF ANALYSIS VA07070758

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
C105733		2	<20	<0.01	<10	<10	14	<10	244
C105734		2	<20	<0.01	<10	<10	2	<10	35
C105735		9	<20	<0.01	<10	<10	9	<10	17
C105736		5090	20	<0.01	<10	<10	2	<10	11
C105737		21	<20	0.30	<10	<10	167	<10	142
C105738		6	<20	0.55	<10	<10	82	<10	19

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Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE VA07070192

Project: Hartles Joe

P.O. No.:

This report is for 39 Rock samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07070192

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
C105694		0.48	0.007		0.2	0.50	19	<10	40	<0.5	<2	1.34	1.1	4	31	8
C105695		0.54	0.017		<0.2	0.24	38	<10	70	<0.5	<2	1.02	0.6	4	13	7
C105696		0.20	0.004		<0.2	0.29	33	<10	80	<0.5	<2	19.0	<0.5	11	8	20
C105697		0.52	0.955		1.0	0.23	672	<10	20	<0.5	2	0.09	<0.5	8	13	161
C105698		0.34	0.162		0.6	0.82	1290	<10	60	<0.5	2	0.10	<0.5	2	45	156
C105699		0.28	6.37		1.0	0.28	42	<10	120	<0.5	<2	0.66	0.5	4	5	27
C105700		0.58	0.019		<0.2	0.48	15	<10	130	<0.5	<2	0.85	<0.5	2	4	5
C105701		0.72	2.56		<0.2	0.37	2	<10	150	<0.5	<2	0.87	<0.5	2	5	5
C105702		0.72	0.027		0.2	0.16	25	<10	20	<0.5	<2	7.24	<0.5	5	8	5
C105703		0.44	0.065		0.3	0.56	53	<10	60	<0.5	<2	2.96	1.0	5	12	9
C105704		0.34	0.400		<0.2	0.18	48	<10	60	<0.5	<2	0.20	<0.5	2	6	2
C105705		0.46	1.030		0.2	0.19	12	<10	60	<0.5	<2	1.28	<0.5	2	4	1
C105706		0.32	0.009		<0.2	0.19	365	<10	50	<0.5	<2	5.84	<0.5	7	5	6
C105707		0.26	9.97		3.8	0.41	66	<10	60	<0.5	<2	2.80	8.9	16	19	58
C105708		0.44	0.013		<0.2	0.04	26	<10	10	<0.5	<2	1.24	<0.5	3	17	10
C105709		0.40	0.044		<0.2	0.43	6	<10	20	<0.5	<2	3.90	<0.5	4	10	16
C105710		0.62	0.102		<0.2	0.07	700	<10	10	<0.5	<2	1.88	<0.5	59	292	10
C105711		0.54	0.005		<0.2	2.27	6	<10	10	<0.5	<2	3.40	<0.5	24	17	46
C105712		0.44	0.004		<0.2	0.08	14	<10	<10	<0.5	<2	0.71	<0.5	11	11	66
C105713		0.40	1.085		6.6	0.41	58	<10	<10	<0.5	<2	1.62	19.0	5	12	57
C105714		0.62	>10.0	27.0	>100	0.09	190	<10	10	<0.5	<2	2.23	50.7	5	12	13
C105715		0.10	0.081		1.5	0.69	7	<10	10	<0.5	<2	9.22	<0.5	3	7	54
C105716		0.22	3.03		4.0	0.32	3770	<10	<10	<0.5	<2	2.60	<0.5	4	12	17
C105717		0.42	5.26		5.1	0.70	584	<10	10	<0.5	<2	3.59	<0.5	9	31	11
C105718		0.48	8.17		9.3	0.32	902	<10	<10	<0.5	<2	1.79	12.5	4	33	15
C105719		0.26	0.037		<0.2	0.06	21	<10	130	<0.5	<2	0.04	<0.5	1	15	9
C105720		0.74	0.021		<0.2	0.19	9	<10	20	<0.5	<2	21.2	<0.5	11	7	7
C105721		0.40	0.118		0.2	0.03	24	<10	30	<0.5	<2	0.35	<0.5	1	8	7
C105722		0.36	0.160		5.8	0.67	4	<10	20	<0.5	3	0.22	1.0	8	8	48
C105723		0.38	0.059		11.3	0.42	30	<10	20	<0.5	16	0.80	19.0	10	6	73
C105724		0.48	0.291		14.5	1.16	44	<10	50	<0.5	27	0.27	<0.5	17	2	167
C105725		0.48	0.064		0.3	0.23	72	<10	20	<0.5	<2	3.44	<0.5	9	15	25
C105726		0.36	1.005		0.4	0.04	177	<10	10	<0.5	<2	0.05	<0.5	2	11	9
C105727		0.26	0.433		4.8	0.36	141	<10	20	<0.5	<2	0.10	0.5	10	15	12
C105728		0.74	0.004		<0.2	3.72	5	<10	20	<0.5	<2	0.25	<0.5	76	134	30
C105729		0.66	0.016		2.6	0.06	3	<10	<10	<0.5	<2	0.03	<0.5	35	10	864
C105730		0.56	2.04		5.1	0.14	2	<10	<10	<0.5	<2	1.37	21.1	2	15	57
C105731		1.48	1.785		>100	0.30	20	<10	<10	<0.5	<2	3.08	1.2	3	18	114
C105732		0.46	>10.0	73.0	>100	0.13	111	<10	<10	<0.5	<2	0.22	35.1	10	10	977

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07070192

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
C105694		1.40	<10	<1	0.05	<10	0.49	507	<1	0.01	8	40	103	0.01	2	2
C105695		1.43	<10	<1	0.13	<10	0.05	551	<1	0.01	11	70	9	0.01	5	3
C105696		6.38	<10	<1	0.11	<10	0.40	1790	3	0.02	26	70	3	<0.01	2	4
C105697		13.65	<10	<1	0.04	<10	0.02	1070	14	<0.01	41	720	12	0.02	18	1
C105698		40.8	<10	<1	0.26	<10	0.06	365	175	0.01	13	2420	225	0.06	35	5
C105699		1.28	<10	<1	0.13	10	0.02	587	2	0.03	5	180	76	0.01	48	1
C105700		1.47	<10	<1	0.17	10	0.07	264	<1	0.05	3	250	5	<0.01	<2	1
C105701		1.07	<10	<1	0.12	10	0.03	388	<1	0.09	4	330	6	<0.01	5	1
C105702		2.82	<10	<1	0.07	<10	1.26	647	1	0.01	10	400	2	0.05	<2	2
C105703		2.00	<10	<1	0.14	<10	0.35	361	<1	0.01	8	320	7	0.01	3	2
C105704		0.83	<10	<1	0.06	10	0.02	200	<1	0.04	3	150	<2	<0.01	2	<1
C105705		0.81	<10	<1	0.07	10	0.02	189	<1	0.05	2	220	2	<0.01	2	1
C105706		2.92	<10	<1	0.07	<10	0.09	843	<1	0.01	2	150	<2	0.01	<2	3
C105707		2.59	<10	<1	0.14	<10	0.33	500	2	0.01	40	140	355	0.38	13	3
C105708		0.90	<10	<1	0.03	<10	0.54	190	<1	<0.01	23	20	3	0.02	34	1
C105709		1.89	<10	<1	0.08	<10	0.64	884	<1	0.01	5	<10	5	0.01	4	4
C105710		3.04	<10	<1	0.02	<10	11.50	325	<1	0.01	928	10	13	0.46	2540	5
C105711		5.59	10	<1	0.03	<10	1.73	890	<1	0.04	14	890	<2	0.11	9	11
C105712		0.86	<10	<1	0.01	<10	0.12	121	1	0.01	11	20	<2	0.19	26	<1
C105713		1.42	<10	<1	0.02	<10	0.45	365	<1	0.01	9	130	962	0.53	5	2
C105714		3.59	<10	<1	0.09	<10	0.63	287	<1	0.01	15	350	958	3.26	76	3
C105715		0.74	<10	<1	0.06	<10	0.19	471	<1	0.04	5	140	19	0.05	4	1
C105716		1.37	<10	<1	0.01	<10	0.53	391	<1	0.01	7	50	11	0.39	7	2
C105717		2.72	<10	<1	0.17	<10	1.03	843	<1	0.01	25	350	7	0.90	5	6
C105718		1.42	<10	<1	0.04	<10	0.45	345	<1	<0.01	11	40	39	0.44	3	4
C105719		1.80	<10	<1	0.05	<10	0.02	39	1	<0.01	6	140	2	0.09	2	<1
C105720		5.17	<10	<1	0.03	<10	9.09	1130	<1	<0.01	8	40	2	<0.01	3	4
C105721		2.11	<10	<1	0.02	<10	0.04	101	<1	<0.01	2	50	2	0.24	<2	<1
C105722		3.40	<10	<1	0.04	<10	0.37	395	45	0.02	2	350	128	0.05	<2	5
C105723		3.19	<10	<1	0.07	<10	0.21	387	8	0.01	1	170	1540	0.58	2	3
C105724		7.52	10	<1	0.13	<10	0.30	646	1	0.05	<1	930	129	3.93	3	5
C105725		2.76	<10	<1	0.05	<10	1.19	775	1	0.01	14	630	20	0.34	<2	3
C105726		0.97	<10	<1	0.02	<10	0.01	155	1	<0.01	4	60	24	0.02	2	1
C105727		3.46	<10	<1	0.10	<10	0.20	97	11	0.01	16	110	56	0.02	3	2
C105728		16.1	10	<1	0.01	<10	3.53	1080	<1	0.03	37	280	2	9.30	<2	13
C105729		6.43	<10	<1	0.02	<10	0.04	30	40	0.01	5	20	<2	6.25	<2	<1
C105730		0.94	<10	<1	0.02	<10	0.26	182	<1	<0.01	12	10	135	0.32	3	1
C105731		1.79	<10	<1	0.03	<10	1.12	393	<1	0.01	14	40	1380	0.44	15	2
C105732		1.80	<10	<1	0.04	<10	0.10	85	1	<0.01	39	20	>10000	1.72	68	1

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07070192

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	Pb-OG46 Pb % 0.01
C105694		42	<20	<0.01	<10	<10	20	<10	93		
C105695		17	<20	<0.01	<10	<10	10	<10	61		
C105696		166	<20	<0.01	<10	<10	22	<10	48		
C105697		10	<20	<0.01	<10	<10	81	<10	72		
C105698		13	<20	<0.01	<10	<10	379	<10	270		
C105699		16	<20	<0.01	<10	<10	4	<10	56		
C105700		13	<20	<0.01	<10	<10	8	<10	20		
C105701		34	<20	<0.01	<10	<10	5	<10	21		
C105702		314	<20	<0.01	<10	<10	18	770	44		
C105703		37	<20	<0.01	<10	<10	19	<10	243		
C105704		8	<20	<0.01	<10	<10	3	10	19		
C105705		38	<20	<0.01	<10	<10	4	<10	18		
C105706		37	<20	<0.01	<10	<10	12	<10	23		
C105707		95	<20	<0.01	<10	<10	16	<10	645		
C105708		50	<20	<0.01	<10	<10	4	250	12		
C105709		173	<20	<0.01	<10	<10	24	<10	23		
C105710		36	<20	<0.01	<10	<10	12	<10	8		
C105711		42	<20	0.64	<10	<10	231	<10	66		
C105712		18	<20	0.01	<10	<10	7	<10	3		
C105713		45	<20	0.01	<10	<10	19	<10	2650		
C105714		72	<20	<0.01	<10	<10	5	<10	3380	466	
C105715		186	<20	0.02	<10	<10	45	<10	51		
C105716		68	<20	<0.01	<10	<10	17	<10	43		
C105717		65	<20	0.01	<10	<10	36	350	57		
C105718		52	<20	<0.01	<10	<10	26	<10	1530		
C105719		10	<20	<0.01	<10	<10	23	<10	49		
C105720		1835	<20	<0.01	<10	<10	41	<10	49		
C105721		9	<20	<0.01	<10	<10	8	<10	7		
C105722		6	<20	0.04	<10	<10	50	<10	50		
C105723		15	<20	<0.01	<10	<10	35	<10	327		
C105724		7	<20	0.01	<10	<10	5	<10	44		
C105725		68	<20	<0.01	<10	<10	21	<10	32		
C105726		2	<20	<0.01	<10	<10	8	<10	19		
C105727		5	<20	<0.01	<10	<10	30	<10	40		
C105728		3	<20	0.22	<10	<10	170	<10	102		
C105729		2	<20	0.01	<10	<10	7	<10	5		
C105730		21	<20	<0.01	<10	<10	7	<10	1760		
C105731		71	<20	<0.01	<10	<10	17	<10	116	175	
C105732		4	<20	<0.01	<10	<10	6	<10	2200	183	2.95

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE VA07069490

Project: Hartles Joe

P.O. No.:

This report is for 297 Soil samples submitted to our lab in Vancouver, BC, Canada on 3-JUL-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26001		0.18	0.010		0.3	1.98	17	<10	100	<0.5	<2	0.50	<0.5	14	53	45
CC26002		0.22	0.009		0.2	2.08	19	<10	120	<0.5	<2	0.42	<0.5	16	55	38
CC26003		0.14	0.027		1.0	2.27	91	<10	190	0.5	<2	1.39	<0.5	20	49	90
CC26004		0.20	0.028		0.2	1.92	56	<10	150	0.5	<2	0.55	<0.5	15	32	61
CC26005		0.20	0.006		<0.2	2.05	29	<10	130	<0.5	<2	0.51	<0.5	11	36	51
CC26006		0.24	0.007		0.2	2.08	17	<10	130	<0.5	<2	0.77	<0.5	13	33	54
CC26007		0.24	0.006		<0.2	1.62	15	<10	130	<0.5	<2	0.43	<0.5	12	34	50
CC26008		0.20	0.019		0.3	1.91	23	<10	120	0.5	<2	0.91	<0.5	17	45	62
CC26009		0.24	0.008		0.2	2.95	18	<10	120	0.6	<2	0.85	<0.5	27	39	88
CC26010		0.22	0.205		0.8	2.23	115	<10	180	0.5	<2	0.29	0.6	22	55	54
CC26011		0.24	0.314		0.3	2.13	37	<10	100	0.6	<2	0.27	<0.5	19	86	58
CC26012		0.14	0.022		0.3	3.27	32	<10	160	<0.5	<2	0.66	<0.5	29	136	66
CC26013		0.22	0.025		0.4	4.28	74	<10	120	<0.5	<2	0.76	<0.5	60	193	146
CC26014		0.20	0.019		2.5	3.27	48	<10	120	<0.5	<2	0.87	3.3	42	144	189
CC26015		0.18	0.015		1.8	3.14	57	<10	120	<0.5	<2	0.94	1.5	36	125	149
CC26016		0.22	0.020		2.6	2.90	66	<10	80	<0.5	<2	0.94	2.4	30	131	132
CC26017		0.24	0.009		0.2	3.06	28	<10	100	0.5	<2	0.32	0.5	31	89	107
CC26018		0.26	0.004		0.2	1.86	10	<10	80	<0.5	<2	0.21	<0.5	14	42	67
CC26019		0.28	0.010		0.5	2.37	50	<10	110	<0.5	<2	0.47	1.0	24	96	88
CC26020		0.22	0.012		1.0	2.66	26	<10	110	<0.5	<2	1.19	2.3	50	122	115
CC26021		0.22	0.040		2.6	1.02	117	<10	90	<0.5	<2	3.58	3.3	33	39	135
CC26022		0.24	0.014		0.7	2.69	93	<10	170	<0.5	<2	1.37	2.6	40	151	142
CC26023		0.20	0.011		0.7	2.76	47	<10	180	<0.5	<2	1.17	1.7	39	106	120
CC26024		0.12	0.008		<0.2	1.88	42	<10	60	<0.5	<2	0.24	<0.5	19	52	27
CC26025		0.18	0.045		0.8	2.31	109	<10	170	<0.5	<2	2.11	5.3	31	106	109
CC26026		0.24	0.014		0.9	1.62	84	<10	200	0.6	<2	0.86	1.6	25	54	123
CC26027		0.16	0.011		0.3	1.72	24	<10	110	<0.5	<2	0.44	<0.5	12	39	45
CC26028		0.20	0.004		<0.2	1.96	18	<10	120	<0.5	<2	0.24	<0.5	11	48	43
CC26029		0.14	0.016		0.2	2.00	120	<10	150	0.5	<2	0.58	<0.5	12	42	83
CC26030		0.16	0.010		<0.2	2.35	87	<10	130	0.5	<2	0.66	<0.5	14	52	72
CC26031		0.26	0.020		0.4	1.59	51	<10	130	<0.5	<2	0.36	0.8	16	54	76
CC26032		0.20	0.005		0.3	2.52	29	<10	160	0.5	<2	0.47	<0.5	17	67	67
CC26033		0.20	0.008		<0.2	2.34	21	<10	120	<0.5	<2	0.41	<0.5	19	59	57
CC26034		0.14	0.013		0.8	0.77	21	<10	460	0.5	<2	3.50	0.6	11	20	59
CC26035		0.20	0.010		0.3	1.97	19	<10	170	<0.5	<2	0.58	<0.5	15	33	38
CC26036		0.18	0.004		0.2	1.66	12	<10	90	<0.5	<2	0.38	<0.5	22	31	30
CC26037		0.26	0.034		0.6	2.95	97	<10	110	<0.5	<2	0.55	<0.5	34	25	118
CC26038		0.20	0.032		1.9	2.35	135	<10	120	0.6	<2	0.76	4.4	65	92	347
CC26039		0.26	0.024		0.4	2.68	29	<10	60	<0.5	<2	0.64	<0.5	52	92	186
CC26040		0.18	0.038		0.2	2.36	79	<10	60	<0.5	<2	0.67	<0.5	38	75	113

Comments: NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26001		3.49	10	<1	0.06	10	1.11	576	1	0.01	34	920	10	0.04	<2	6
CC26002		3.26	10	<1	0.05	10	0.93	1135	1	0.01	28	1120	11	0.08	2	2
CC26003		4.11	10	<1	0.06	20	0.98	1145	1	0.02	46	1520	20	0.11	2	7
CC26004		3.72	10	<1	0.06	20	0.81	769	1	0.01	20	1030	14	0.05	2	8
CC26005		3.10	10	<1	0.05	10	0.80	508	1	0.02	23	1050	8	0.08	<2	4
CC26006		3.25	10	<1	0.05	10	0.71	748	1	0.01	20	1140	9	0.09	<2	4
CC26007		3.06	10	<1	0.05	10	0.72	647	1	0.01	19	840	7	0.05	<2	5
CC26008		3.78	10	<1	0.06	20	0.96	1070	2	0.01	29	930	12	0.07	<2	8
CC26009		5.18	10	<1	0.05	10	1.31	2230	1	0.01	22	1800	7	0.11	<2	11
CC26010		4.90	10	<1	0.06	20	1.15	1040	2	0.01	42	650	39	0.02	3	10
CC26011		4.77	10	<1	0.07	20	1.61	1040	6	0.01	41	1000	12	0.01	<2	13
CC26012		6.92	10	<1	0.07	10	2.16	1965	2	0.01	55	1780	10	0.14	<2	15
CC26013		9.58	10	<1	0.09	10	3.49	2720	1	0.01	163	760	5	0.06	<2	35
CC26014		8.28	10	<1	0.08	20	2.51	2440	10	0.01	111	1130	10	0.06	4	34
CC26015		7.58	10	<1	0.08	10	2.31	1905	7	0.01	85	1020	7	0.08	<2	29
CC26016		7.62	10	<1	0.05	20	2.07	1345	5	0.01	97	1420	13	0.09	3	20
CC26017		5.85	10	<1	0.06	10	1.84	1225	2	0.01	58	1010	12	0.03	<2	13
CC26018		3.34	<10	<1	0.04	10	0.81	651	1	0.01	26	900	6	0.05	<2	7
CC26019		5.70	10	<1	0.04	10	1.66	835	6	0.02	62	1040	10	0.08	<2	13
CC26020		6.56	10	<1	0.04	20	1.91	3150	3	0.01	112	1400	12	0.11	<2	11
CC26021		6.06	<10	<1	0.05	10	0.58	1600	12	0.01	95	1490	14	0.17	8	8
CC26022		7.28	10	<1	0.09	10	1.91	1735	8	0.01	108	1060	12	0.08	5	22
CC26023		6.29	10	<1	0.17	10	1.82	2260	3	0.01	67	1350	12	0.10	2	15
CC26024		4.67	10	<1	0.09	10	1.06	1030	1	0.01	25	990	12	0.10	<2	3
CC26025		5.44	10	<1	0.05	20	1.51	2530	11	0.01	82	1640	10	0.16	2	10
CC26026		6.72	<10	1	0.08	10	0.66	1020	9	0.01	69	1140	11	0.07	5	18
CC26027		3.82	10	<1	0.04	10	0.57	903	2	0.01	20	1650	8	0.14	<2	2
CC26028		3.54	10	<1	0.05	10	0.86	549	1	0.01	29	720	9	0.06	2	3
CC26029		4.27	10	<1	0.07	20	0.78	866	1	0.01	25	1590	9	0.09	3	8
CC26030		3.96	10	<1	0.06	10	1.02	845	1	0.01	30	1280	11	0.07	2	6
CC26031		4.04	<10	<1	0.04	20	0.82	697	2	0.01	38	680	7	0.01	3	11
CC26032		4.07	10	<1	0.08	20	1.19	881	1	0.02	45	1360	13	0.06	<2	7
CC26033		3.84	10	<1	0.06	10	1.22	818	1	0.01	44	900	11	0.05	3	6
CC26034		2.70	<10	<1	0.05	20	0.38	483	3	0.02	35	1480	11	0.22	3	2
CC26035		3.97	10	<1	0.04	10	0.70	909	1	0.01	19	1150	9	0.08	<2	4
CC26036		4.11	10	1	0.04	10	0.63	860	3	0.01	23	820	24	0.07	<2	3
CC26037		7.37	10	<1	0.06	10	1.44	1720	1	0.01	21	830	7	0.03	<2	26
CC26038		8.88	10	<1	0.04	20	1.58	1360	20	0.01	126	870	59	0.22	3	18
CC26039		5.70	10	<1	0.04	10	2.00	1400	1	0.02	73	990	12	0.05	2	10
CC26040		5.00	10	<1	0.04	10	1.53	980	1	0.01	66	880	8	0.06	<2	7

Comments: NSS is non-sufficient sample.

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Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26001		23	<20	0.07	<10	<10	84	<10	68
CC26002		23	<20	0.04	<10	<10	78	<10	58
CC26003		54	<20	0.04	<10	<10	77	<10	88
CC26004		24	<20	0.04	<10	<10	77	<10	66
CC26005		21	<20	0.04	<10	<10	75	<10	55
CC26006		28	<20	0.05	<10	<10	78	<10	61
CC26007		18	<20	0.04	<10	<10	74	<10	54
CC26008		30	<20	0.04	<10	<10	90	<10	71
CC26009		28	<20	0.04	<10	<10	140	<10	89
CC26010		21	<20	0.04	<10	<10	96	<10	114
CC26011		14	<20	0.04	<10	<10	121	<10	105
CC26012		32	<20	0.11	<10	<10	207	<10	91
CC26013		25	<20	0.20	<10	<10	254	<10	93
CC26014		40	<20	0.05	<10	<10	249	<10	253
CC26015		42	<20	0.04	<10	<10	201	<10	190
CC26016		48	<20	0.03	<10	<10	146	<10	237
CC26017		19	<20	0.10	<10	<10	148	<10	119
CC26018		15	<20	0.04	<10	<10	76	<10	65
CC26019		34	<20	0.06	<10	<10	141	<10	136
CC26020		55	<20	0.02	<10	<10	110	<10	132
CC26021		110	<20	0.01	<10	<10	53	<10	224
CC26022		78	<20	0.02	<10	<10	160	<10	194
CC26023		58	<20	0.04	<10	<10	134	<10	150
CC26024		16	<20	0.06	<10	<10	81	<10	73
CC26025		104	<20	0.02	<10	<10	229	<10	224
CC26026		43	<20	0.01	<10	<10	114	<10	206
CC26027		24	<20	0.02	<10	<10	89	<10	60
CC26028		15	<20	0.05	<10	<10	82	<10	71
CC26029		31	<20	0.04	<10	<10	92	<10	81
CC26030		32	<20	0.05	<10	<10	90	<10	74
CC26031		21	<20	0.04	<10	<10	87	<10	93
CC26032		27	<20	0.06	<10	<10	97	<10	97
CC26033		21	<20	0.08	<10	<10	92	<10	72
CC26034		270	<20	0.01	<10	<10	27	<10	85
CC26035		31	<20	0.05	<10	<10	103	<10	51
CC26036		20	<20	0.08	<10	<10	84	<10	61
CC26037		24	<20	0.02	<10	<10	162	<10	98
CC26038		40	<20	0.05	<10	<10	141	<10	298
CC26039		23	<20	0.15	<10	<10	122	<10	84
CC26040		20	<20	0.08	<10	<10	101	<10	69

Comments: NSS is non-sufficient sample.

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Project: Hartles Joe

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26041		0.14	0.037		0.5	2.74	102	<10	70	0.5	<2	0.84	0.5	32	100	123
CC26042		0.14	0.004		<0.2	0.55	8	<10	40	<0.5	<2	0.58	<0.5	7	12	24
CC26043		0.28	0.198		1.4	3.97	138	<10	80	0.6	<2	0.80	<0.5	47	145	122
CC26044		0.22	0.011		0.3	3.03	34	<10	90	<0.5	<2	1.28	<0.5	48	78	140
CC26045		0.22	0.026	NSS	0.2	2.70	25	<10	60	<0.5	<2	0.83	<0.5	31	53	162
CC26046		0.30	0.071		0.7	2.90	82	<10	50	<0.5	<2	0.42	1.4	33	130	133
CC26047		0.32	NSS		<0.2	2.67	21	<10	110	<0.5	<2	0.33	<0.5	23	80	65
CC26048		0.18	0.010		<0.2	1.76	10	<10	80	<0.5	<2	0.37	<0.5	14	52	30
CC26049		0.30	0.006		0.2	2.41	20	<10	80	<0.5	<2	0.37	<0.5	20	69	49
CC26050		0.20	0.004		0.2	3.66	29	<10	180	0.5	<2	0.66	<0.5	24	118	79
CC26051		0.32	0.020		0.7	2.61	64	<10	130	0.5	<2	0.52	1.5	24	84	94
CC26052		0.30	0.023		0.4	2.49	52	<10	140	0.5	<2	0.46	1.1	24	76	86
CC26053		0.38	0.018		1.0	2.84	66	<10	150	0.5	<2	0.64	1.7	28	89	104
CC26054		0.36	0.026		1.0	2.52	66	<10	150	0.5	<2	0.49	1.7	25	76	98
CC26055		0.36	0.067		0.6	1.59	47	<10	90	<0.5	<2	0.41	3.5	26	62	87
CC26056		0.40	0.219		0.4	1.75	106	<10	90	<0.5	<2	0.28	0.5	22	64	71
CC26057		0.36	0.037		0.8	2.23	72	<10	120	<0.5	<2	0.54	1.0	27	96	98
CC26058		0.34	0.028		0.7	1.68	46	<10	100	<0.5	<2	0.56	1.3	25	58	83
CC26059		0.34	0.008		<0.2	1.92	8	<10	100	<0.5	<2	0.40	<0.5	11	42	31
CC26060		0.38	0.025		0.3	2.03	63	<10	90	<0.5	<2	0.53	<0.5	23	23	112
CC26061		0.34	0.009		<0.2	1.77	5	<10	110	<0.5	<2	0.24	<0.5	12	40	29
CC26062		0.32	0.007		<0.2	1.92	18	<10	90	0.5	<2	0.44	<0.5	16	41	38
CC26063		0.30	0.096		0.5	2.05	40	<10	90	<0.5	<2	0.34	<0.5	20	33	67
CC26064		0.28	0.013		<0.2	1.67	27	<10	100	<0.5	<2	0.40	<0.5	11	35	39
CC26065		0.36	0.049		<0.2	2.13	21	<10	120	<0.5	<2	0.28	<0.5	15	41	58
CC26066		0.40	0.016		2.0	2.13	20	<10	120	<0.5	<2	0.27	<0.5	17	41	64
CC26067		0.44	0.020		0.3	1.90	34	<10	100	<0.5	<2	0.51	<0.5	19	47	71
CC26068		0.32	0.016		<0.2	1.87	31	<10	110	<0.5	<2	0.32	<0.5	15	44	45
CC26069		0.42	0.028		0.6	1.71	25	<10	110	<0.5	<2	0.86	<0.5	17	49	60
CC26070		0.30	0.031		0.7	1.74	35	<10	100	<0.5	<2	0.64	0.7	23	57	68
CC26071		0.28	0.023		0.4	1.69	30	<10	130	0.5	<2	0.66	<0.5	13	42	36
CC26072		0.28	0.014		0.6	2.05	78	<10	120	0.6	<2	0.65	<0.5	19	49	66
CC26073		0.38	0.013		0.3	1.77	56	<10	120	<0.5	<2	0.54	1.1	28	60	78
CC26074		0.26	0.014		0.8	2.14	38	<10	90	<0.5	<2	0.80	2.6	24	104	78
CC26075		0.26	0.020	0.033	0.5	2.46	37	<10	120	<0.5	<2	0.55	1.0	25	91	99
CC26076		0.28	0.018		0.5	2.79	32	<10	130	0.5	<2	0.49	0.9	28	104	100
CC26077		0.40	0.051		1.2	2.05	141	<10	200	0.5	<2	0.44	4.1	37	83	110
CC26078		0.32	0.021		0.3	2.08	40	<10	110	<0.5	<2	0.27	1.0	19	70	68
CC26079		0.28	0.015		<0.2	2.00	37	<10	110	<0.5	<2	0.30	1.0	18	68	61
CC26080		0.32	0.017	0.031	0.4	2.19	27	<10	120	<0.5	<2	0.74	1.2	17	82	63

Comments: NSS is non-sufficient sample.

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26041		5.30	10	<1	0.04	10	1.62	1490	2	0.02	65	1510	12	0.12	<2	8
CC26042		1.47	<10	<1	0.02	<10	0.18	337	1	0.03	10	600	5	0.08	<2	1
CC26043		8.01	10	<1	0.04	10	3.06	2440	1	0.01	99	800	15	0.06	<2	21
CC26044		6.23	10	<1	0.03	10	1.95	2260	1	0.02	84	990	10	0.10	2	8
CC26045		5.28	10	<1	0.04	10	1.54	1050	1	0.02	63	1320	10	0.08	2	6
CC26046		6.41	10	<1	0.03	10	2.26	1320	6	0.01	83	1030	11	0.05	2	15
CC26047		4.57	10	<1	0.05	10	1.67	788	1	0.02	51	580	9	0.01	<2	12
CC26048		3.09	10	<1	0.06	10	0.73	877	1	0.01	29	930	10	0.09	2	1
CC26049		4.18	10	<1	0.05	10	1.42	687	1	0.01	46	630	9	0.03	<2	7
CC26050		6.49	10	<1	0.06	10	2.23	976	1	0.02	69	1270	14	0.06	<2	14
CC26051		5.43	10	<1	0.05	20	1.38	1190	6	0.01	68	1100	14	0.04	4	15
CC26052		5.13	10	<1	0.04	10	1.29	1335	6	0.01	58	1380	14	0.07	3	10
CC26053		5.93	10	<1	0.06	20	1.56	1415	6	0.02	70	1230	15	0.05	3	18
CC26054		5.36	10	<1	0.06	20	1.30	1390	3	0.01	62	1320	16	0.06	4	17
CC26055		4.67	<10	<1	0.03	10	1.10	1055	10	0.01	62	840	10	0.02	3	12
CC26056		4.46	10	<1	0.04	10	1.05	1120	2	0.01	50	860	11	0.02	4	13
CC26057		5.43	10	<1	0.06	20	1.41	1595	4	0.02	64	1170	12	0.04	4	19
CC26058		4.80	<10	<1	0.04	10	1.03	1265	4	0.01	54	1060	11	0.04	5	14
CC26059		2.99	10	<1	0.05	10	0.77	550	1	0.01	24	750	8	0.06	<2	3
CC26060		4.34	<10	<1	0.04	10	0.90	1445	1	0.01	21	830	5	0.03	13	13
CC26061		2.85	10	<1	0.04	10	0.85	499	<1	0.01	30	480	7	0.02	<2	5
CC26062		3.03	10	<1	0.04	10	0.84	875	<1	0.01	24	1010	13	0.06	<2	4
CC26063		3.84	10	<1	0.04	10	1.08	1120	<1	0.01	21	800	9	0.04	<2	8
CC26064		3.14	10	<1	0.04	10	0.69	687	1	0.01	17	960	8	0.08	<2	2
CC26065		3.80	10	<1	0.04	10	0.96	659	1	0.01	26	800	7	0.04	<2	6
CC26066		4.17	10	<1	0.06	10	0.96	819	<1	0.01	28	950	10	0.05	<2	8
CC26067		4.60	<10	<1	0.06	10	1.05	852	2	0.01	37	860	7	0.03	2	13
CC26068		3.86	<10	<1	0.04	10	0.91	646	1	0.01	29	770	9	0.04	2	6
CC26069		3.97	10	<1	0.04	10	0.97	630	1	0.01	34	750	9	0.05	<2	10
CC26070		4.72	10	<1	0.05	20	1.06	872	2	0.01	50	780	12	0.04	3	13
CC26071		3.42	<10	<1	0.05	20	0.68	804	2	0.01	32	1110	16	0.07	4	4
CC26072		4.35	10	<1	0.07	20	0.92	1120	1	0.01	32	1420	16	0.09	3	8
CC26073		5.00	10	<1	0.04	10	1.08	1290	4	0.01	51	1120	6	0.04	5	15
CC26074		5.11	10	<1	0.04	20	1.39	1880	6	0.01	72	1580	9	0.07	6	19
CC26075		4.85	10	<1	0.04	20	1.54	1305	4	0.02	64	1040	21	0.05	2	15
CC26076		5.28	10	<1	0.05	20	1.69	1585	4	0.02	69	1110	16	0.06	2	16
CC26077		7.11	<10	<1	0.07	20	1.16	2800	8	0.01	83	1370	16	0.06	10	22
CC26078		4.44	10	<1	0.04	10	1.21	832	9	0.01	59	850	11	0.03	3	9
CC26079		4.26	10	<1	0.04	10	1.18	761	7	0.01	53	910	11	0.03	2	9
CC26080		4.45	10	<1	0.05	10	1.33	768	5	0.02	53	1080	9	0.06	3	10

Comments: NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26041		30	<20	0.05	<10	<10	127	<10	110
CC26042		15	<20	0.05	<10	<10	38	<10	23
CC26043		20	<20	0.04	<10	<10	174	<10	99
CC26044		22	<20	0.08	<10	<10	122	<10	91
CC26045		23	<20	0.07	<10	<10	99	<10	97
CC26046		17	<20	0.06	<10	<10	175	<10	163
CC26047		15	<20	0.14	<10	<10	118	<10	78
CC26048		17	<20	0.06	<10	<10	74	<10	67
CC26049		15	<20	0.11	<10	<10	109	<10	67
CC26050		27	<20	0.05	<10	<10	163	<10	102
CC26051		37	<20	0.03	<10	<10	116	<10	175
CC26052		33	<20	0.02	<10	<10	108	<10	156
CC26053		42	<20	0.04	<10	<10	128	<10	192
CC26054		34	<20	0.03	<10	<10	111	<10	162
CC26055		25	<20	0.05	<10	<10	95	<10	180
CC26056		18	<20	0.06	<10	<10	91	<10	91
CC26057		38	<20	0.06	<10	<10	114	<10	128
CC26058		37	<20	0.04	<10	<10	87	<10	121
CC26059		22	<20	0.06	<10	<10	71	<10	50
CC26060		37	<20	0.06	<10	<10	87	<10	82
CC26061		12	<20	0.07	<10	<10	65	<10	47
CC26062		19	<20	0.05	<10	<10	69	<10	51
CC26063		18	<20	0.05	<10	<10	85	10	60
CC26064		18	<20	0.04	<10	<10	75	<10	52
CC26065		17	<20	0.05	<10	<10	88	<10	65
CC26066		16	<20	0.04	<10	<10	90	<10	79
CC26067		26	<20	0.04	<10	<10	101	<10	91
CC26068		19	<20	0.03	<10	<10	81	<10	66
CC26069		38	<20	0.04	<10	<10	84	<10	72
CC26070		31	<20	0.04	<10	<10	89	<10	98
CC26071		50	<20	0.03	<10	<10	62	<10	76
CC26072		29	<20	0.05	<10	<10	80	<10	82
CC26073		30	<20	0.05	<10	<10	108	<10	138
CC26074		49	<20	0.02	<10	<10	131	<10	178
CC26075		35	<20	0.04	<10	<10	126	<10	130
CC26076		31	<20	0.05	<10	<10	140	<10	126
CC26077		26	<20	0.01	<10	<10	120	<10	210
CC26078		16	<20	0.05	<10	<10	107	<10	146
CC26079		17	<20	0.04	<10	<10	102	<10	134
CC26080		35	<20	0.04	<10	<10	109	<10	128

Comments: NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26081		0.46	0.013		1.8	2.87	55	<10	130	0.5	<2	0.72	4.8	38	102	166
CC26082		0.28	0.015		1.6	2.39	79	<10	130	0.5	<2	1.05	2.7	29	97	129
CC26083		0.26	0.017		0.7	1.90	101	<10	150	<0.5	<2	0.54	1.5	24	83	102
CC26084		0.28	0.027		1.3	2.21	113	<10	190	0.6	<2	1.77	3.4	36	71	151
CC26085		0.28	0.060		1.3	1.24	144	<10	120	0.5	<2	1.30	1.2	24	43	97
CC26086		0.26	0.207		0.3	1.24	123	<10	100	<0.5	<2	0.51	0.5	19	53	56
CC26087		0.34	0.931		1.0	1.98	28	<10	80	<0.5	<2	0.48	5.0	27	82	104
CC26088		0.32	0.047		0.6	1.74	89	<10	120	0.5	<2	0.25	3.6	32	47	93
CC26089		0.32	0.110		1.9	1.25	183	<10	230	0.6	<2	1.03	2.6	40	44	104
CC26090		0.30	0.006		<0.2	2.43	48	<10	220	0.5	<2	0.60	<0.5	32	72	164
CC26091		0.30	0.087		<0.2	1.97	18	<10	130	<0.5	<2	0.50	<0.5	21	48	83
CC26092		0.24	0.008		0.3	1.96	22	<10	150	<0.5	<2	0.46	<0.5	15	50	50
CC26093		0.28	0.014		0.2	1.60	14	<10	110	<0.5	<2	0.35	<0.5	11	41	45
CC26094		0.36	0.010		<0.2	1.89	17	<10	110	<0.5	<2	0.48	<0.5	18	47	63
CC26095		0.28	0.006		<0.2	2.19	10	<10	90	<0.5	<2	0.20	<0.5	11	55	31
CC26096		0.34	0.006		<0.2	2.30	46	<10	90	<0.5	<2	0.31	<0.5	21	60	73
CC26097		0.30	0.005		<0.2	2.71	21	<10	50	<0.5	<2	0.35	<0.5	39	64	138
CC26098		0.34	0.005		<0.2	2.01	6	<10	70	<0.5	<2	1.04	<0.5	24	50	89
CC26099		0.44	0.008		<0.2	2.40	13	<10	80	<0.5	<2	0.56	<0.5	44	69	165
CC26100		0.36	0.008		<0.2	2.96	18	<10	70	<0.5	<2	0.41	<0.5	48	80	139
CC26101		0.38	0.036		0.5	2.09	39	<10	110	<0.5	<2	0.46	<0.5	19	85	72
CC26102		0.32	0.013		0.5	2.37	16	<10	80	<0.5	<2	0.32	<0.5	14	136	63
CC26103		0.30	0.020		0.2	2.38	19	<10	220	<0.5	<2	0.42	<0.5	22	89	74
CC26104		0.48	0.060		1.6	3.71	65	<10	80	<0.5	<2	0.49	<0.5	39	261	123
CC26105		0.38	0.047		0.6	4.67	31	<10	80	<0.5	<2	0.45	<0.5	49	398	132
CC26106		0.36	0.008		0.2	4.62	13	<10	70	<0.5	<2	0.47	<0.5	41	481	107
CC26107		0.16	0.004		<0.2	3.59	11	<10	60	<0.5	<2	0.54	<0.5	36	219	117
CC26108		0.38	0.008		<0.2	3.56	23	<10	50	<0.5	<2	0.54	<0.5	30	252	93
CC26109		0.34	0.005		<0.2	1.96	10	<10	120	<0.5	<2	0.23	<0.5	11	45	36
CC26110		0.30	0.012		0.3	2.32	25	<10	130	0.5	<2	0.61	<0.5	16	72	54
CC26111		0.24	0.035		1.1	2.15	48	<10	80	<0.5	<2	0.47	<0.5	21	118	70
CC26112		0.32	0.086		1.1	1.99	78	<10	100	<0.5	<2	0.65	<0.5	25	89	68
CC26113		0.30	0.009		0.2	3.25	17	<10	70	<0.5	<2	0.68	<0.5	31	285	124
CC26114		0.30	0.008		0.2	2.89	17	<10	80	<0.5	<2	0.67	<0.5	25	144	88
CC26115		0.32	0.005		0.2	3.96	17	<10	60	<0.5	<2	0.70	<0.5	35	269	128
CC26116		0.38	0.009		0.2	3.61	16	<10	70	<0.5	<2	0.69	<0.5	35	187	86
CC26117		0.38	0.598		6.3	1.75	779	<10	90	<0.5	<2	0.53	<0.5	33	86	127
CC26118		0.38	0.061		1.1	2.34	91	<10	160	0.5	<2	0.86	1.1	35	90	129
CC26119		0.30	0.046		0.5	2.33	49	<10	140	0.6	<2	1.31	<0.5	34	84	98
CC26120		0.26	0.012		<0.2	2.73	25	<10	120	<0.5	<2	0.20	<0.5	24	78	61

Comments: NSS is non-sufficient sample.

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26081		7.32	10	<1	0.07	20	1.86	1945	15	0.02	102	1580	14	0.07	2	18
CC26082		6.45	10	<1	0.05	10	1.50	1590	12	0.01	84	1170	12	0.08	3	17
CC26083		6.20	<10	<1	0.06	10	0.99	1365	4	0.01	67	1690	38	0.09	5	16
CC26084		6.18	10	1	0.09	20	1.23	2180	6	0.01	66	1700	20	0.13	3	17
CC26085		5.51	<10	<1	0.08	10	0.58	1020	4	0.01	64	1150	15	0.10	4	12
CC26086		4.59	<10	<1	0.04	10	0.70	653	3	0.01	45	810	11	0.03	6	14
CC26087		5.75	10	<1	0.05	10	1.35	974	13	0.02	93	1090	9	0.03	5	11
CC26088		5.37	<10	<1	0.05	20	0.86	1995	9	0.01	54	1170	20	0.04	4	11
CC26089		7.93	10	<1	0.05	10	0.78	2070	10	0.01	90	1020	17	0.02	3	12
CC26090		6.72	10	<1	0.06	10	0.96	1275	1	0.01	57	790	8	0.04	3	30
CC26091		3.80	10	<1	0.06	10	0.88	1285	1	0.01	30	1100	11	0.07	2	8
CC26092		3.30	10	<1	0.07	10	0.87	707	1	0.01	29	1100	9	0.07	<2	5
CC26093		2.91	10	1	0.05	10	0.68	506	1	0.01	22	820	8	0.05	<2	3
CC26094		3.50	10	<1	0.07	10	1.07	1110	1	0.02	41	1250	14	0.05	<2	7
CC26095		2.83	10	<1	0.06	10	0.72	596	<1	0.02	32	710	7	0.05	3	2
CC26096		4.17	10	<1	0.04	10	1.08	560	1	0.02	40	620	9	0.06	<2	4
CC26097		5.52	10	<1	0.03	10	1.49	1065	1	0.02	61	940	6	0.08	2	7
CC26098		3.71	10	<1	0.04	10	1.18	683	1	0.02	34	1270	8	0.11	<2	2
CC26099		7.43	10	<1	0.05	10	1.69	1385	<1	0.01	46	680	5	0.03	2	19
CC26100		6.27	10	<1	0.04	10	2.15	1385	2	0.02	51	900	9	0.06	<2	13
CC26101		4.04	10	<1	0.07	10	1.43	840	2	0.02	45	920	13	0.02	2	12
CC26102		3.74	10	<1	0.05	10	2.09	439	1	0.01	49	700	5	0.02	<2	13
CC26103		3.82	10	<1	0.06	10	1.47	848	1	0.02	47	790	10	0.03	<2	8
CC26104		6.88	10	<1	0.14	<10	4.12	1435	1	0.01	97	520	9	0.03	<2	24
CC26105		7.07	10	<1	0.18	<10	5.71	1625	<1	0.01	142	430	5	0.03	2	37
CC26106		6.77	10	1	0.10	<10	5.78	1590	<1	0.01	131	530	5	0.02	3	24
CC26107		6.06	10	1	0.07	10	3.37	1490	1	0.02	84	710	9	0.05	2	11
CC26108		5.40	10	1	0.07	<10	3.27	1180	<1	<0.01	83	650	11	0.05	<2	16
CC26109		2.72	<10	<1	0.04	10	0.77	537	<1	<0.01	27	750	7	0.07	2	2
CC26110		3.47	10	1	0.08	10	1.09	682	<1	0.01	41	960	13	0.07	<2	4
CC26111		4.11	10	<1	0.05	10	1.44	1260	<1	0.01	49	1050	14	0.07	2	14
CC26112		4.54	10	<1	0.07	10	1.34	1340	<1	<0.01	52	770	10	0.06	3	10
CC26113		5.95	10	1	0.07	10	2.95	1270	<1	<0.01	97	460	8	0.04	<2	17
CC26114		4.97	10	<1	0.06	10	2.49	1420	<1	<0.01	59	690	11	0.05	<2	16
CC26115		6.03	10	1	0.10	<10	3.78	1240	<1	<0.01	88	520	7	0.05	<2	18
CC26116		5.71	10	<1	0.05	<10	3.17	1380	<1	<0.01	78	700	6	0.05	<2	14
CC26117		6.55	<10	1	0.06	10	1.19	1520	1	<0.01	71	720	31	0.06	4	19
CC26118		5.92	<10	1	0.06	10	1.56	2330	2	<0.01	64	1120	17	0.10	6	16
CC26119		6.36	<10	1	0.08	10	1.60	2010	1	<0.01	59	960	9	0.07	<2	24
CC26120		5.07	10	1	0.06	10	1.63	1110	1	<0.01	58	810	11	0.06	2	11

Comments: NSS is non-sufficient sample.

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26081		39	<20	0.03	<10	<10	149	<10	309
CC26082		53	<20	0.02	<10	<10	135	<10	214
CC26083		26	<20	0.01	<10	<10	100	<10	160
CC26084		80	<20	0.02	<10	<10	129	<10	197
CC26085		53	<20	0.01	<10	<10	57	<10	146
CC26086		23	<20	0.03	<10	<10	74	<10	114
CC26087		24	<20	0.06	<10	<10	125	<10	298
CC26088		17	<20	0.04	<10	<10	80	<10	220
CC26089		36	<20	0.03	<10	<10	84	<10	222
CC26090		34	<20	0.01	<10	<10	129	<10	106
CC26091		25	<20	0.05	<10	<10	86	<10	67
CC26092		30	<20	0.05	<10	<10	74	<10	58
CC26093		20	<20	0.05	<10	<10	71	<10	46
CC26094		23	<20	0.09	<10	<10	85	<10	64
CC26095		11	<20	0.09	<10	<10	69	<10	49
CC26096		16	<20	0.12	<10	<10	93	<10	91
CC26097		16	<20	0.10	<10	<10	108	<10	74
CC26098		26	<20	0.08	<10	<10	79	<10	55
CC26099		20	<20	0.10	<10	<10	158	<10	87
CC26100		25	<20	0.12	<10	<10	135	<10	81
CC26101		25	<20	0.09	<10	<10	108	<10	86
CC26102		16	<20	0.09	<10	<10	115	<10	63
CC26103		19	<20	0.09	<10	<10	102	<10	72
CC26104		23	<20	0.14	<10	<10	225	<10	98
CC26105		27	<20	0.11	<10	<10	245	<10	96
CC26106		18	<20	0.17	<10	<10	242	<10	84
CC26107		22	<20	0.13	<10	<10	189	<10	85
CC26108		25	<20	0.09	<10	<10	173	<10	82
CC26109		16	<20	0.05	<10	<10	64	<10	50
CC26110		33	<20	0.06	<10	<10	82	<10	71
CC26111		28	<20	0.05	<10	<10	109	<10	89
CC26112		36	<20	0.04	<10	<10	106	<10	87
CC26113		25	<20	0.14	<10	<10	208	<10	92
CC26114		34	<20	0.08	<10	<10	175	<10	96
CC26115		31	<20	0.13	<10	<10	227	<10	94
CC26116		31	<20	0.10	<10	<10	199	<10	104
CC26117		30	<20	0.01	<10	<10	111	<10	136
CC26118		53	<20	0.02	<10	<10	137	<10	124
CC26119		71	<20	0.03	<10	<10	147	<10	106
CC26120		14	<20	0.05	<10	<10	125	<10	90

Comments: NSS is non-sufficient sample.

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Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26121		0.32	0.010		<0.2	3.24	27	<10	70	<0.5	<2	0.25	<0.5	39	75	102
CC26122		0.34	0.011		<0.2	2.83	20	<10	70	<0.5	<2	0.15	<0.5	25	87	60
CC26123		0.40	0.012		<0.2	2.32	20	<10	60	<0.5	<2	0.36	<0.5	23	72	63
CC26124		0.24	0.011		0.8	2.91	38	<10	110	<0.5	<2	0.78	0.5	28	95	110
CC26125		0.18	0.050		0.3	3.70	84	<10	130	0.5	<2	0.63	<0.5	39	126	107
CC26126		0.32	0.035		0.2	2.80	50	<10	90	<0.5	<2	0.24	<0.5	29	81	97
CC26127		0.36	0.095		0.5	2.82	91	<10	100	0.5	<2	0.38	<0.5	36	86	119
CC26128		0.28	0.051		0.8	2.79	110	<10	180	0.6	<2	0.50	<0.5	35	89	101
CC26129		0.36	0.083		0.9	2.90	86	<10	110	0.6	<2	0.65	1.3	29	113	116
CC26130		0.32	0.016		0.5	2.63	57	<10	120	0.5	<2	0.82	1.5	28	106	106
CC26131		0.32	0.036		<0.2	2.12	37	<10	130	0.5	<2	0.21	<0.5	15	36	43
CC26132		0.32	0.013		<0.2	2.31	35	<10	100	<0.5	<2	0.32	<0.5	23	25	85
CC26133		0.28	0.011		<0.2	1.90	18	<10	120	<0.5	<2	0.39	<0.5	14	32	46
CC26134		0.40	0.019		0.2	2.17	53	<10	130	0.5	<2	0.55	<0.5	25	46	116
CC26135		0.42	0.015		0.9	2.01	53	<10	150	0.6	<2	1.18	0.5	26	42	152
CC26136		0.38	0.029		1.3	2.03	46	<10	120	<0.5	<2	0.52	<0.5	20	44	111
CC26137		0.50	0.159		8.6	2.10	152	<10	100	<0.5	<2	0.48	0.6	18	58	72
CC26138		0.26	0.047		1.4	2.61	55	<10	160	0.5	<2	0.84	<0.5	19	70	115
CC26139		0.32	0.003		<0.2	1.90	10	<10	100	<0.5	<2	0.20	<0.5	9	44	29
CC26140		0.38	0.004		<0.2	1.73	8	<10	100	<0.5	<2	0.25	<0.5	13	43	34
CC26141		0.40	0.396		<0.2	1.93	15	<10	110	<0.5	<2	0.46	<0.5	14	48	51
CC26142		0.40	0.024		<0.2	1.93	36	<10	80	<0.5	<2	0.26	<0.5	15	42	61
CC26143		0.34	0.005		0.2	2.04	16	<10	130	<0.5	<2	0.85	<0.5	15	69	109
CC26144		0.32	0.007		1.0	2.35	51	<10	160	0.6	<2	0.68	1.8	21	68	73
CC26145		0.42	0.016		<0.2	1.50	31	<10	110	<0.5	<2	0.52	0.5	14	38	53
CC26146		0.44	0.004		1.0	2.05	44	<10	130	0.5	<2	0.98	1.4	20	74	71
CC26147		0.50	0.026		1.4	1.34	100	<10	100	<0.5	<2	0.73	3.5	21	44	71
CC26148		0.36	0.040		0.5	0.87	96	<10	210	0.8	<2	0.57	0.8	20	20	49
CC26149		0.26	0.012		1.0	1.89	46	<10	220	0.5	<2	1.82	1.3	25	54	89
CC26150		0.54	0.022		1.1	2.15	85	<10	140	0.6	2	0.73	4.0	40	72	144
CC26151		0.36	0.012		0.6	1.86	37	<10	120	0.5	<2	0.39	0.8	31	47	124
CC26152		0.42	0.008		0.8	1.74	71	<10	140	<0.5	<2	0.88	1.7	34	85	119
CC26153		0.44	0.012		0.3	1.96	12	<10	90	<0.5	<2	0.26	<0.5	17	56	42
CC26154		0.38	0.006		<0.2	2.04	10	<10	90	<0.5	<2	0.18	<0.5	17	57	36
CC26155		0.54	0.068		0.6	3.26	110	<10	80	0.5	<2	0.26	0.5	49	108	137
CC26156		0.50	0.158		1.5	3.12	181	<10	70	<0.5	<2	0.39	3.0	56	180	228
CC26157		0.64	0.029		0.6	2.85	74	<10	40	<0.5	<2	0.35	2.0	37	160	157
CC26158		0.46	0.143		1.0	2.71	196	<10	60	<0.5	<2	0.52	0.9	35	117	125
CC26159		0.36	1.370		4.7	1.65	1400	<10	130	0.6	2	1.03	1.6	44	12	168
CC26160		0.30	0.011		0.3	1.85	13	<10	130	<0.5	<2	0.29	<0.5	12	29	52

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26121		6.79	10	1	0.05	10	2.34	932	1	<0.01	53	480	6	0.04	3	15
CC26122		5.44	10	2	0.04	10	1.80	955	<1	<0.01	48	940	6	0.07	2	9
CC26123		4.50	10	<1	0.04	10	1.76	723	<1	<0.01	42	710	5	0.01	<2	12
CC26124		6.33	10	<1	0.07	10	1.74	1250	2	<0.01	66	1600	12	0.11	2	18
CC26125		7.31	10	<1	0.06	10	2.41	2270	<1	<0.01	81	1330	17	0.09	<2	22
CC26126		5.85	10	1	0.05	10	1.81	1180	1	<0.01	62	980	16	0.04	<2	16
CC26127		6.52	10	1	0.06	10	1.81	2140	<1	<0.01	64	1200	18	0.06	3	19
CC26128		6.27	<10	1	0.10	10	1.51	2030	2	<0.01	64	1360	30	0.07	3	19
CC26129		5.65	10	<1	0.05	20	1.89	1560	4	<0.01	72	1500	29	0.07	3	17
CC26130		5.36	10	<1	0.06	10	1.75	1400	4	<0.01	64	1270	10	0.07	4	16
CC26131		3.55	10	1	0.04	10	0.83	727	<1	<0.01	24	650	8	0.04	<2	4
CC26132		4.66	<10	1	0.06	10	0.80	1300	<1	0.01	20	940	5	0.05	8	9
CC26133		3.29	<10	<1	0.04	10	0.71	847	<1	<0.01	18	1090	10	0.07	2	4
CC26134		4.47	<10	<1	0.06	10	0.93	1320	<1	<0.01	31	1310	12	0.07	4	8
CC26135		4.57	<10	1	0.07	20	0.84	1390	<1	<0.01	39	1630	12	0.13	2	8
CC26136		4.00	<10	<1	0.10	10	0.96	853	<1	<0.01	35	950	13	0.06	<2	9
CC26137		4.12	<10	1	0.08	10	1.22	886	<1	<0.01	35	1070	28	0.06	4	9
CC26138		4.39	10	1	0.07	10	1.30	884	<1	0.01	44	1180	14	0.09	<2	10
CC26139		2.69	10	1	0.04	10	0.66	531	<1	<0.01	23	770	7	0.07	2	1
CC26140		3.00	<10	1	0.05	10	1.02	487	<1	<0.01	31	340	5	0.02	<2	6
CC26141		3.22	10	1	0.05	10	1.05	906	<1	0.01	31	770	10	0.03	<2	7
CC26142		3.43	<10	<1	0.04	10	1.00	721	<1	<0.01	27	750	9	0.02	<2	7
CC26143		3.39	<10	<1	0.05	10	1.02	806	<1	<0.01	30	1250	8	0.09	<2	7
CC26144		4.51	10	<1	0.07	20	1.06	1290	5	0.02	54	1540	15	0.10	<2	9
CC26145		3.47	<10	<1	0.04	10	0.73	630	2	0.02	30	650	6	0.05	2	8
CC26146		4.76	10	1	0.05	10	1.12	1090	5	0.02	64	1320	8	0.10	3	9
CC26147		3.99	<10	<1	0.04	10	0.70	878	6	0.02	59	700	12	0.06	6	10
CC26148		5.15	<10	<1	0.07	10	0.26	805	3	0.01	29	830	13	0.04	5	13
CC26149		4.79	<10	1	0.05	20	0.86	1500	5	0.02	38	2010	13	0.18	3	12
CC26150		6.92	10	1	0.07	20	1.31	1830	9	0.02	74	1210	25	0.11	5	19
CC26151		4.37	<10	<1	0.05	10	0.89	1760	3	0.01	41	1160	14	0.07	<2	10
CC26152		6.15	<10	<1	0.05	10	0.96	1950	4	0.01	84	1360	10	0.10	5	17
CC26153		3.33	10	<1	0.04	10	1.08	817	<1	0.01	39	620	8	0.04	<2	7
CC26154		3.84	10	<1	0.04	10	1.22	602	1	0.01	32	540	7	0.05	<2	6
CC26155		8.15	10	<1	0.04	10	2.59	1780	1	0.01	78	800	19	0.05	6	22
CC26156		8.04	10	1	0.05	10	2.62	1750	8	0.01	116	790	26	0.08	5	24
CC26157		6.04	10	1	0.04	10	2.41	1320	7	0.01	80	780	16	0.04	3	16
CC26158		5.57	10	<1	0.04	10	2.08	1380	2	0.02	83	650	10	0.05	<2	14
CC26159		8.32	<10	1	0.07	10	0.70	2240	3	0.02	20	790	247	0.22	6	17
CC26160		3.69	10	1	0.04	10	0.66	697	1	0.02	18	910	7	0.09	<2	3

Comments: NSS is non-sufficient sample.

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26121		8	<20	0.20	<10	<10	202	<10	97
CC26122		9	<20	0.08	<10	<10	147	<10	88
CC26123		16	<20	0.12	<10	<10	126	<10	73
CC26124		37	<20	0.04	<10	<10	156	<10	146
CC26125		28	<20	0.08	<10	<10	182	<10	118
CC26126		14	<20	0.06	<10	<10	134	<10	105
CC26127		22	<20	0.05	<10	<10	147	<10	116
CC26128		29	<20	0.02	<10	<10	147	<10	144
CC26129		43	<20	0.04	<10	<10	161	<10	177
CC26130		56	<20	0.04	<10	<10	161	<10	149
CC26131		14	<20	0.04	<10	<10	78	<10	65
CC26132		39	<20	0.03	<10	<10	72	<10	79
CC26133		24	<20	0.03	<10	<10	68	<10	59
CC26134		30	<20	0.05	<10	<10	93	<10	97
CC26135		48	<20	0.03	<10	<10	84	<10	109
CC26136		28	<20	0.05	<10	<10	85	<10	79
CC26137		26	<20	0.05	<10	<10	95	<10	113
CC26138		45	<20	0.05	<10	<10	112	<10	98
CC26139		15	<20	0.03	<10	<10	67	<10	49
CC26140		14	<20	0.09	<10	<10	73	<10	47
CC26141		20	<20	0.07	<10	<10	76	<10	53
CC26142		15	<20	0.07	<10	<10	80	<10	57
CC26143		43	<20	0.04	<10	<10	91	<10	66
CC26144		41	<20	0.04	<10	<10	104	<10	160
CC26145		25	<20	0.05	<10	<10	78	<10	75
CC26146		44	<20	0.03	<10	<10	94	<10	144
CC26147		41	<20	0.03	<10	<10	61	<10	189
CC26148		24	<20	<0.01	<10	<10	53	<10	117
CC26149		71	<20	0.01	<10	<10	120	<10	108
CC26150		52	<20	0.02	<10	<10	124	<10	224
CC26151		32	<20	0.04	<10	<10	85	<10	105
CC26152		52	<20	0.02	<10	<10	91	<10	133
CC26153		17	<20	0.06	<10	<10	86	<10	52
CC26154		13	<20	0.10	<10	<10	112	<10	53
CC26155		14	<20	0.06	<10	<10	197	<10	138
CC26156		20	<20	0.07	<10	<10	218	<10	241
CC26157		17	<20	0.10	<10	<10	174	<10	188
CC26158		22	<20	0.09	<10	<10	156	<10	120
CC26159		41	<20	0.02	<10	<10	93	10	290
CC26160		19	<20	0.06	<10	<10	100	<10	63

Comments: NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26161		0.36	0.001		0.2	1.71	11	<10	100	<0.5	<2	0.43	<0.5	15	25	61
CC26165		0.36	0.005		<0.2	2.10	7	<10	80	<0.5	<2	0.21	<0.5	14	40	38
CC26166		0.44	0.025		0.7	1.37	14	<10	150	<0.5	<2	0.36	<0.5	13	35	39
CC26167		0.48	0.016		0.8	0.59	<2	<10	200	<0.5	2	0.45	2.9	35	8	35
CC26168		0.30	<0.001		<0.2	0.28	2	<10	10	<0.5	<2	0.14	<0.5	3	3	12
CC26169		0.36	0.045		0.2	1.80	52	<10	90	0.5	3	0.67	<0.5	42	37	77
CC26170		0.30	0.004		<0.2	2.22	6	<10	110	<0.5	<2	1.09	<0.5	29	39	106
CC26171		0.44	0.005		0.2	2.32	13	<10	60	<0.5	<2	0.53	<0.5	25	43	52
CC26172		0.34	<0.001		<0.2	0.22	2	<10	10	<0.5	<2	0.14	<0.5	2	2	5
CC26173		0.30	0.008		<0.2	0.90	12	<10	100	<0.5	<2	0.62	<0.5	12	13	23
CC26174		0.32	0.023		0.5	1.59	9	<10	70	0.6	<2	1.64	<0.5	14	26	57
CC26175		0.42	0.014		<0.2	2.33	25	<10	100	0.6	<2	0.48	<0.5	21	46	63
CC26176		0.34	0.007		<0.2	2.09	24	<10	110	0.5	<2	0.74	<0.5	24	81	67
CC26177		0.44	0.500		0.7	2.26	417	<10	80	0.6	<2	0.43	<0.5	41	47	66
CC26178		0.32	0.012		0.2	1.79	16	<10	90	<0.5	<2	0.69	<0.5	16	38	45
CC26179		0.34	0.053		0.2	1.85	100	<10	110	0.5	<2	0.42	<0.5	22	44	42
CC26180		0.36	0.033		0.5	2.02	84	<10	150	0.5	<2	0.35	<0.5	22	53	45
CC26181		0.40	0.012		0.2	1.69	31	<10	140	<0.5	<2	0.32	<0.5	15	36	52
CC26182		0.36	0.006		0.2	1.71	14	<10	110	<0.5	<2	0.32	<0.5	15	32	72
CC26183		0.42	0.019		0.7	1.74	37	<10	130	<0.5	<2	0.39	<0.5	19	39	58
CC26184		0.42	0.014		<0.2	2.35	9	<10	90	<0.5	<2	0.46	<0.5	17	64	39
CC26185		0.38	0.013		0.4	1.87	12	<10	140	<0.5	<2	0.33	<0.5	12	49	31
CC26186		0.36	0.013		0.9	1.17	32	<10	90	0.6	<2	1.13	1.1	16	18	130
CC26187		0.44	0.002		<0.2	2.13	13	<10	130	<0.5	<2	0.31	<0.5	12	51	30
CC26188		0.42	0.002		<0.2	2.15	10	<10	170	<0.5	<2	0.39	<0.5	10	48	27
CC26189		0.42	0.003		<0.2	1.90	18	<10	120	<0.5	<2	0.40	<0.5	12	45	29
CC26190		0.30	0.001		<0.2	1.47	13	<10	70	<0.5	<2	0.20	<0.5	6	31	17
CC26191		0.38	0.006		0.2	2.02	30	<10	90	<0.5	<2	0.34	<0.5	16	53	38
CC26192		0.38	0.005		<0.2	1.96	11	<10	70	<0.5	<2	0.15	<0.5	11	42	23
CC26193		0.56	0.013		<0.2	1.88	21	<10	60	<0.5	<2	0.17	<0.5	12	44	26
CC26194		0.48	0.008		<0.2	2.24	24	<10	70	<0.5	<2	0.45	<0.5	15	57	33
CC26195		0.38	0.009		0.2	2.17	18	<10	70	<0.5	<2	0.18	<0.5	15	43	31
CC26196		0.38	0.013		0.2	1.77	9	<10	70	<0.5	<2	0.18	<0.5	13	27	33
CC26197		0.34	0.020		<0.2	1.42	17	<10	70	<0.5	<2	0.20	<0.5	11	22	21
CC26198		0.36	0.011		<0.2	2.39	17	<10	70	<0.5	<2	0.34	<0.5	19	52	46
CC26199		0.38	0.003		<0.2	1.31	8	<10	40	<0.5	<2	0.21	<0.5	11	24	21
CC26200		0.14	0.009		0.2	2.76	22	<10	150	0.5	<2	0.82	<0.5	29	79	95
CC26201		0.18	0.027		0.4	2.84	24	<10	120	<0.5	<2	0.62	<0.5	22	98	89
CC26202		0.14	0.055		0.8	2.91	111	<10	90	0.5	<2	0.74	0.5	31	103	139
CC26203		0.22	0.006		<0.2	2.42	25	<10	90	<0.5	<2	0.33	<0.5	21	77	51

Comments: NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26161		3.31	<10	<1	0.03	10	0.81	610	1	0.02	16	670	5	0.03	<2	6
CC26165		3.18	10	1	0.05	10	0.83	606	1	0.02	31	640	12	0.05	<2	4
CC26166		3.67	<10	<1	0.05	10	0.72	1250	<1	0.02	24	690	20	0.04	<2	9
CC26167		10.30	<10	1	0.04	<10	0.19	3660	2	0.01	14	1470	38	0.03	2	33
CC26168		1.01	<10	<1	0.01	<10	0.13	87	<1	0.03	3	240	<2	0.02	<2	1
CC26169		8.62	10	<1	0.07	10	1.12	1690	<1	0.01	58	1250	8	0.08	<2	28
CC26170		4.36	10	2	0.05	10	1.20	1220	1	0.02	26	1360	7	0.14	<2	5
CC26171		4.73	10	<1	0.05	10	1.68	825	1	0.01	28	670	6	0.05	<2	8
CC26172		0.60	<10	<1	0.02	<10	0.10	60	<1	0.03	3	200	<2	0.03	<2	<1
CC26173		2.55	<10	1	0.03	10	0.36	669	<1	0.03	11	800	4	0.07	3	5
CC26174		3.05	10	1	0.04	10	0.61	698	1	0.02	16	1510	11	0.15	<2	4
CC26175		4.34	10	<1	0.05	10	1.01	1110	<1	0.02	26	1710	8	0.13	<2	6
CC26176		4.60	10	<1	0.07	10	1.22	1110	<1	0.02	44	970	8	0.08	2	13
CC26177		4.86	10	1	0.04	10	1.28	1250	<1	0.02	46	1100	16	0.07	<2	8
CC26178		4.17	10	1	0.06	10	0.84	786	1	0.02	21	1150	10	0.12	<2	4
CC26179		3.46	10	1	0.05	10	0.77	750	1	0.02	29	1100	16	0.11	<2	3
CC26180		3.55	10	<1	0.10	10	0.85	951	1	0.02	37	1020	17	0.08	<2	6
CC26181		3.60	<10	<1	0.07	10	0.74	690	1	0.02	27	570	7	0.04	<2	7
CC26182		3.67	10	1	0.05	10	0.67	633	1	0.01	20	600	5	0.06	<2	4
CC26183		3.60	10	<1	0.07	20	0.80	701	3	0.01	34	430	46	0.03	<2	7
CC26184		3.35	10	<1	0.07	10	1.43	524	1	0.02	29	440	8	0.04	2	4
CC26185		2.76	10	<1	0.10	10	0.78	554	<1	0.01	29	740	9	0.04	<2	3
CC26186		4.36	<10	<1	0.04	20	0.85	504	9	0.01	37	1390	19	0.13	4	3
CC26187		2.68	10	<1	0.08	10	0.85	432	<1	0.01	32	570	8	0.02	<2	5
CC26188		2.84	10	<1	0.08	10	0.77	427	1	0.01	28	830	9	0.05	<2	2
CC26189		2.96	10	<1	0.06	10	0.69	1060	<1	0.01	22	1100	10	0.08	<2	1
CC26190		1.90	10	1	0.04	10	0.48	229	1	0.01	15	840	6	0.08	<2	1
CC26191		3.67	10	<1	0.07	10	1.08	673	1	0.01	32	960	8	0.07	<2	3
CC26192		2.78	10	<1	0.05	10	0.72	562	<1	0.01	22	710	7	0.05	<2	2
CC26193		2.89	10	<1	0.05	10	0.84	470	1	0.01	25	620	7	0.04	<2	3
CC26194		4.07	10	1	0.04	10	1.14	588	1	0.01	33	1010	4	0.09	<2	2
CC26195		3.87	10	1	0.04	10	0.81	703	<1	0.01	22	800	5	0.07	<2	2
CC26196		3.33	10	1	0.03	10	0.66	731	1	0.01	14	890	3	0.07	<2	2
CC26197		2.52	<10	<1	0.03	10	0.54	657	<1	0.02	13	860	4	0.07	<2	1
CC26198		4.16	10	1	0.04	10	1.46	596	<1	0.01	33	720	6	0.02	3	10
CC26199		2.49	<10	<1	0.03	10	0.74	352	<1	0.01	15	600	<2	0.04	<2	3
CC26200		5.08	10	<1	0.06	10	1.67	1130	1	0.02	54	1310	12	0.11	<2	11
CC26201		5.28	10	<1	0.06	10	1.99	645	1	0.02	60	980	12	0.05	<2	16
CC26202		5.53	10	1	0.05	10	1.83	1300	2	0.01	70	1280	14	0.08	<2	13
CC26203		4.32	10	1	0.05	10	1.35	858	1	0.01	51	800	14	0.05	<2	6

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26161		25	<20	0.10	<10	<10	87	<10	53
CC26165		14	<20	0.08	<10	<10	69	<10	57
CC26166		22	<20	0.08	<10	<10	57	<10	59
CC26167		15	<20	<0.01	<10	<10	117	<10	163
CC26168		11	<20	0.06	<10	<10	30	<10	16
CC26169		22	<20	0.01	<10	<10	172	<10	115
CC26170		36	<20	0.08	<10	<10	118	<10	67
CC26171		18	<20	0.20	<10	<10	146	<10	67
CC26172		10	<20	0.04	<10	<10	18	<10	11
CC26173		22	<20	0.03	<10	<10	56	<10	35
CC26174		63	<20	0.03	<10	<10	93	<10	51
CC26175		28	<20	0.03	<10	<10	125	<10	59
CC26176		29	<20	0.05	<10	<10	115	<10	67
CC26177		25	<20	0.05	<10	<10	116	<10	86
CC26178		30	<20	0.09	<10	<10	131	<10	60
CC26179		23	<20	0.05	<10	<10	95	<10	59
CC26180		22	<20	0.05	<10	<10	80	<10	73
CC26181		22	<20	0.05	<10	<10	75	<10	59
CC26182		18	<20	0.06	<10	<10	82	<10	56
CC26183		24	<20	0.06	<10	<10	70	<10	73
CC26184		25	<20	0.16	<10	<10	84	<10	62
CC26185		23	<20	0.09	<10	<10	66	<10	55
CC26186		99	<20	0.01	<10	<10	30	<10	223
CC26187		20	<20	0.11	<10	<10	65	<10	51
CC26188		26	<20	0.07	<10	<10	69	<10	50
CC26189		22	<20	0.05	<10	<10	72	<10	62
CC26190		14	<20	0.04	<10	<10	49	<10	37
CC26191		18	<20	0.09	<10	<10	98	<10	76
CC26192		12	<20	0.07	<10	<10	74	<10	58
CC26193		12	<20	0.08	<10	<10	78	<10	55
CC26194		20	<20	0.07	<10	<10	121	<10	63
CC26195		14	<20	0.06	<10	<10	103	<10	56
CC26196		15	<20	0.05	<10	<10	102	<10	52
CC26197		13	<20	0.04	<10	<10	75	<10	39
CC26198		18	<20	0.12	<10	<10	134	<10	65
CC26199		11	<20	0.08	<10	<10	81	<10	37
CC26200		33	<20	0.07	<10	<10	130	<10	86
CC26201		29	<20	0.09	<10	<10	141	<10	104
CC26202		31	<20	0.06	<10	<10	149	<10	118
CC26203		16	<20	0.08	<10	<10	110	<10	74

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26204		0.22	0.008		0.2	2.92	22	<10	110	0.5	2	0.44	<0.5	43	108	63
CC26205		0.16	0.008		0.4	1.26	14	<10	210	<0.5	<2	1.14	<0.5	8	16	49
CC26206		0.20	0.013		1.0	1.88	24	<10	270	0.9	<2	1.30	<0.5	21	35	130
CC26207		0.14	0.009		0.6	1.41	33	<10	340	1.0	<2	1.89	0.5	18	30	93
CC26208		0.10	<0.001		0.3	0.65	10	<10	180	<0.5	<2	2.34	<0.5	9	11	43
CC26209		0.30	0.017		0.9	1.91	51	<10	260	0.9	<2	0.61	0.8	27	46	187
CC26210		0.20	0.007		<0.2	1.05	15	<10	170	<0.5	<2	0.82	<0.5	8	31	24
CC26211		0.16	0.006		<0.2	0.70	12	<10	150	0.5	<2	3.22	0.5	5	21	29
CC26212		0.28	0.010		<0.2	1.05	15	<10	150	0.6	<2	1.98	<0.5	10	27	20
CC26213		0.26	0.003		<0.2	0.60	20	<10	150	0.5	<2	8.99	0.9	7	26	34
CC26214		0.30	0.016		1.0	1.29	49	<10	220	0.8	<2	2.17	1.5	20	34	107
CC26215		0.18	0.028		1.2	1.37	43	<10	250	0.9	<2	1.55	0.8	18	30	104
CC26216		0.24	0.012		0.9	1.10	28	<10	200	0.7	<2	3.15	1.0	14	20	97
CC26217		0.16	0.015		0.5	1.00	12	<10	200	<0.5	<2	3.12	<0.5	10	30	46
CC26218		0.28	0.019		0.8	1.88	26	<10	190	0.6	<2	1.23	<0.5	16	57	89
CC26219		0.26	0.017		0.9	1.76	34	<10	190	0.7	<2	1.08	0.7	14	43	92
CC26220		0.28	0.007		0.3	2.25	16	<10	150	0.5	<2	0.42	<0.5	17	67	59
CC26221		0.22	0.008		0.4	2.88	40	<10	160	0.6	<2	0.43	<0.5	22	83	77
CC26222		0.16	0.011		0.3	2.37	33	<10	130	0.5	<2	0.65	<0.5	16	52	66
CC26223		0.22	0.015		0.4	2.72	59	<10	110	0.5	<2	0.64	<0.5	19	71	77
CC26224		0.26	0.010		0.2	2.05	35	<10	100	<0.5	<2	0.50	<0.5	14	50	48
CC26225		0.24	0.011		0.5	2.11	28	<10	110	<0.5	<2	0.39	<0.5	14	48	51
CC26226		0.22	0.008		0.2	1.54	6	<10	100	<0.5	<2	0.22	<0.5	8	36	25
CC26227		0.34	0.146		2.4	2.25	206	<10	180	0.7	<2	0.53	0.9	35	93	124
CC26228		0.42	0.007		<0.2	2.90	17	<10	70	<0.5	<2	0.35	<0.5	36	71	118
CC26229		0.24	2.23		1.0	2.35	42	<10	80	0.6	<2	0.39	<0.5	30	70	76
CC26230		0.24	0.005		<0.2	1.28	12	<10	60	<0.5	<2	0.18	<0.5	7	32	14
CC26231		0.16	0.003		0.2	2.88	14	<10	120	0.6	<2	1.21	<0.5	18	57	115
CC26232		0.16	0.002		0.4	2.51	11	<10	100	<0.5	<2	0.76	<0.5	19	59	63
CC26233		0.16	0.002		0.2	3.12	13	<10	120	0.5	<2	0.76	<0.5	23	67	78
CC26234		0.22	0.004		0.4	2.67	14	<10	160	0.5	<2	0.72	<0.5	18	71	66
CC26235		0.22	0.001		<0.2	0.77	5	<10	70	<0.5	<2	0.15	<0.5	2	18	7
CC26236		0.18	0.002		0.2	2.07	17	<10	80	<0.5	<2	0.33	<0.5	16	55	53
CC26237		0.22	0.002		0.2	3.87	30	<10	80	<0.5	2	0.60	<0.5	45	15	61
CC26238		0.20	0.006		0.3	2.36	12	<10	90	0.5	<2	0.34	<0.5	18	38	37
CC26239		0.32	0.003		<0.2	2.30	13	<10	100	<0.5	2	0.50	<0.5	22	49	42
CC26240		0.20	<0.001		0.5	2.57	14	<10	140	0.5	<2	1.52	<0.5	20	52	75
CC26241		0.28	0.004		<0.2	1.36	8	<10	80	<0.5	<2	0.45	<0.5	12	38	38
CC26242		0.38	0.004		<0.2	1.47	7	<10	90	<0.5	<2	0.49	<0.5	10	44	33
CC26243		0.34	0.007		<0.2	1.26	5	<10	70	<0.5	<2	0.37	<0.5	9	34	34

Comments: NSS is non-sufficient sample.

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26204		6.31	10	<1	0.06	10	1.61	2280	1	0.01	77	2020	13	0.13	<2	8
CC26205		1.86	<10	<1	0.04	10	0.43	541	1	0.04	15	1280	7	0.11	<2	2
CC26206		4.17	10	1	0.06	30	0.76	1260	2	0.02	37	1780	20	0.16	<2	6
CC26207		3.51	<10	<1	0.05	20	0.56	924	2	0.01	38	1820	20	0.15	2	4
CC26208		1.41	<10	<1	0.03	10	0.23	706	1	0.02	11	1380	10	0.23	<2	2
CC26209		5.01	10	1	0.08	20	1.00	1050	3	0.02	58	1620	34	0.08	2	8
CC26210		2.32	<10	<1	0.04	20	0.52	322	2	0.02	27	680	8	0.04	<2	3
CC26211		1.55	<10	<1	0.04	20	0.28	361	3	0.01	28	1590	10	0.17	<2	2
CC26212		2.41	<10	<1	0.05	20	0.63	428	2	0.01	33	1410	26	0.05	<2	3
CC26213		2.03	<10	<1	0.14	20	0.90	340	8	0.01	51	4410	11	0.08	2	4
CC26214		3.64	<10	<1	0.09	20	0.76	537	7	0.01	62	3150	20	0.08	4	5
CC26215		3.63	<10	<1	0.07	30	0.64	883	6	0.01	50	1990	20	0.12	2	5
CC26216		3.01	<10	<1	0.04	20	0.53	857	4	0.01	30	1800	13	0.19	3	2
CC26217		2.35	<10	<1	0.04	20	0.47	490	4	0.02	28	1390	7	0.19	<2	3
CC26218		4.25	10	<1	0.04	20	1.09	591	7	0.01	46	1260	14	0.08	2	8
CC26219		3.60	<10	<1	0.05	20	0.80	533	4	0.01	38	1620	14	0.08	<2	6
CC26220		3.75	10	<1	0.06	10	1.20	751	1	0.01	50	1140	13	0.05	<2	6
CC26221		4.75	10	<1	0.07	10	1.49	873	1	0.01	60	1500	16	0.08	<2	8
CC26222		3.23	10	<1	0.05	10	0.99	720	1	0.03	39	1330	12	0.10	<2	5
CC26223		4.12	10	<1	0.05	10	1.30	814	1	0.01	47	1310	15	0.09	2	6
CC26224		3.05	10	1	0.05	10	0.94	600	1	0.02	36	1020	9	0.07	<2	4
CC26225		3.05	10	1	0.05	10	0.86	582	1	0.02	31	1100	8	0.07	<2	4
CC26226		2.17	<10	<1	0.04	10	0.61	331	1	0.01	21	840	6	0.05	<2	2
CC26227		7.11	10	1	0.07	20	1.59	1620	5	0.01	71	1060	23	0.07	6	19
CC26228		5.90	10	1	0.05	10	2.05	1120	1	0.01	44	780	5	0.03	<2	14
CC26229		6.28	10	2	0.06	10	1.35	1170	3	0.01	50	910	10	0.06	<2	16
CC26230		2.66	10	<1	0.06	10	0.44	344	1	0.01	16	230	8	0.02	<2	3
CC26231		4.88	10	<1	0.06	20	1.27	913	1	0.02	32	1850	10	0.22	2	12
CC26232		4.46	10	1	0.06	10	1.26	991	1	0.01	33	1310	10	0.10	<2	11
CC26233		4.40	10	1	0.06	10	1.63	1440	<1	0.01	37	1740	10	0.12	<2	8
CC26234		3.76	10	<1	0.09	10	1.45	644	1	0.02	77	670	9	0.04	<2	8
CC26235		1.28	10	<1	0.03	10	0.17	103	1	<0.01	7	190	6	0.01	<2	1
CC26236		3.82	10	<1	0.05	10	1.09	663	1	0.01	30	1030	8	0.11	<2	6
CC26237		8.22	10	1	0.08	10	2.75	2510	1	0.01	25	1140	13	0.09	2	31
CC26238		4.82	10	<1	0.05	10	0.73	1060	1	0.01	19	1280	36	0.12	<2	4
CC26239		5.98	10	1	0.05	10	1.04	1380	1	0.01	26	1670	16	0.14	<2	7
CC26240		3.94	10	1	0.06	20	1.21	1120	1	0.02	32	2170	15	0.20	<2	7
CC26241		2.34	<10	<1	0.05	10	0.75	405	<1	0.02	30	620	5	0.01	<2	6
CC26242		2.00	<10	<1	0.04	10	0.75	244	1	0.02	35	700	5	0.02	<2	6
CC26243		2.13	<10	1	0.04	10	0.65	328	<1	0.01	26	970	3	0.01	<2	3

Comments: NSS is non-sufficient sample.

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Project: Hartles Joe

Finalized Date: 26-JUL-2007
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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
CC26204		21	<20	0.10	<10	<10	154	<10	104
CC26205		108	<20	0.03	<10	<10	35	<10	58
CC26206		160	<20	0.03	<10	<10	52	<10	114
CC26207		182	<20	0.02	<10	<10	43	<10	118
CC26208		271	<20	0.02	<10	<10	20	<10	62
CC26209		84	<20	0.05	<10	<10	65	<10	190
CC26210		76	<20	0.06	<10	<10	48	<10	56
CC26211		331	<20	0.01	<10	<10	26	<10	82
CC26212		188	<20	0.04	<10	<10	39	<10	100
CC26213		940	<20	0.01	<10	<10	27	<10	132
CC26214		174	<20	0.02	<10	<10	48	<10	200
CC26215		120	<20	0.02	<10	<10	44	<10	164
CC26216		219	<20	0.01	<10	<10	33	<10	136
CC26217		159	<20	0.01	<10	<10	34	<10	67
CC26218		77	<20	0.02	<10	<10	69	<10	128
CC26219		70	<20	0.02	<10	<10	59	<10	129
CC26220		38	<20	0.07	<10	<10	88	<10	82
CC26221		31	<20	0.06	<10	<10	114	<10	103
CC26222		34	<20	0.05	<10	<10	76	<10	70
CC26223		27	<20	0.05	<10	<10	105	<10	85
CC26224		24	<20	0.06	<10	<10	74	<10	66
CC26225		22	<20	0.05	<10	<10	74	<10	65
CC26226		17	<20	0.06	<10	<10	52	<10	43
CC26227		33	<20	0.03	<10	<10	130	<10	151
CC26228		17	<20	0.14	<10	<10	157	<10	90
CC26229		20	<20	0.03	<10	<10	144	<10	71
CC26230		14	<20	0.13	<10	<10	84	<10	45
CC26231		44	<20	0.05	<10	<10	139	<10	73
CC26232		27	<20	0.05	<10	<10	118	<10	73
CC26233		33	<20	0.06	<10	<10	133	<10	75
CC26234		30	<20	0.13	<10	<10	94	<10	75
CC26235		12	<20	0.11	<10	<10	58	<10	18
CC26236		23	<20	0.07	<10	<10	102	<10	67
CC26237		22	<20	0.10	<10	<10	316	<10	109
CC26238		18	<20	0.05	<10	<10	102	<10	77
CC26239		24	<20	0.05	<10	<10	150	<10	86
CC26240		51	<20	0.04	<10	<10	101	<10	66
CC26241		20	<20	0.11	<10	<10	60	<10	39
CC26242		20	<20	0.11	<10	<10	65	<10	40
CC26243		16	<20	0.08	<10	<10	53	<10	42

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au Check	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
CC26244		0.28	0.001		<0.2	1.78	7	<10	80	<0.5	<2	0.33	<0.5	10	38	29
CC26245		0.24	0.004		<0.2	1.77	7	<10	100	<0.5	<2	0.40	<0.5	11	39	26
CC26246		0.20	0.002		<0.2	1.77	5	<10	80	<0.5	<2	0.34	<0.5	10	40	26
CC26247		0.30	0.009		0.2	2.69	19	<10	110	0.5	<2	0.46	<0.5	21	69	73
CC26248		0.18	0.015		0.4	2.93	31	<10	130	0.5	<2	0.87	<0.5	34	80	84
CC26249		0.20	0.008		0.3	2.66	23	<10	110	0.6	2	0.82	<0.5	25	78	79
CC26250		0.28	0.008		0.5	2.23	22	<10	100	0.5	<2	0.54	<0.5	21	64	69
CC26451		0.24	0.005		0.3	1.62	12	<10	110	0.5	<2	0.84	<0.5	36	73	79
CC26452		0.28	0.002		0.2	2.27	16	<10	100	<0.5	<2	0.40	<0.5	28	73	55
CC26453		0.28	0.010		0.3	3.30	48	<10	70	0.5	<2	0.65	<0.5	43	122	103
CC26454		0.18	0.007		<0.2	2.01	34	<10	100	<0.5	<2	0.44	<0.5	13	40	37
CC26455		0.22	0.001		0.2	1.64	6	<10	70	<0.5	<2	0.34	<0.5	10	25	31
CC26456		0.26	0.001		<0.2	1.70	<2	<10	40	<0.5	<2	0.19	<0.5	8	30	20
CC26457		0.26	0.003		<0.2	1.32	4	<10	50	<0.5	<2	0.16	<0.5	6	26	14
CC26458		0.24	0.002		<0.2	1.58	<2	<10	60	<0.5	<2	0.23	<0.5	9	28	19
CC26459		0.24	0.001		<0.2	1.63	8	<10	80	<0.5	<2	0.62	<0.5	9	38	30
CC26430		0.36	0.027		0.8	2.05	12	<10	100	0.5	<2	0.33	<0.5	28	53	72
CC26431		0.30	0.052		0.2	2.49	16	<10	70	<0.5	<2	0.32	<0.5	23	42	63
CC26432		0.22	0.030		0.9	2.82	12	<10	100	0.5	<2	0.41	<0.5	26	55	77
CC26433		0.28	0.009		<0.2	2.35	3	<10	120	<0.5	<2	0.35	<0.5	18	57	59
CC26434		0.42	0.006		0.2	1.91	12	<10	100	<0.5	<2	0.42	<0.5	24	50	85
CC26435		0.30	0.005		<0.2	2.20	14	<10	110	<0.5	<2	0.23	<0.5	15	39	49
CC26436		0.32	0.003		<0.2	2.31	<2	<10	90	<0.5	2	0.35	<0.5	18	47	47
CC26437		0.30	<0.001		<0.2	2.68	9	<10	90	<0.5	<2	0.23	<0.5	12	48	37
CC26438		0.24	<0.001		<0.2	1.64	<2	<10	70	<0.5	2	0.18	<0.5	11	35	28
CC26439		0.40	0.005		<0.2	2.35	16	<10	90	<0.5	<2	0.59	<0.5	37	76	116
CC26440		0.48	0.504		<0.2	2.03	66	<10	140	1.0	<2	2.41	<0.5	82	75	211
CC26441		0.28	0.006		0.3	2.40	17	<10	100	0.5	<2	0.95	<0.5	39	83	120
CC26442		0.26	0.010		0.4	1.77	5	<10	80	<0.5	<2	0.47	<0.5	20	40	79
CC26443		0.26	0.035		1.3	1.05	24	<10	40	<0.5	3	0.05	<0.5	16	40	718
CC26444		0.42	0.141		1.8	2.71	13	<10	50	<0.5	<2	0.27	0.7	33	56	465
CC26445		0.32	0.048		1.1	3.18	43	<10	80	<0.5	<2	0.22	<0.5	44	69	717
CC26446		0.30	0.074		0.8	2.90	40	<10	70	<0.5	<2	0.28	<0.5	41	72	657
CC26447		0.36	0.004		0.4	1.77	2	<10	60	<0.5	<2	0.26	<0.5	11	43	54
CC26460		0.24	0.002		<0.2	1.47	4	<10	50	<0.5	<2	0.28	<0.5	11	49	18
CC26461		0.26	<0.001		<0.2	1.05	<2	<10	40	<0.5	<2	0.12	<0.5	4	19	10
CC26462		0.34	0.003		0.2	2.05	7	<10	90	<0.5	<2	0.24	<0.5	13	50	33
CC26463		0.24	<0.001		<0.2	1.68	<2	<10	70	<0.5	<2	0.21	<0.5	8	40	16
CC26464		0.16	0.002		<0.2	1.29	<2	<10	70	<0.5	<2	0.18	<0.5	12	41	16
CC26465		0.26	0.003		<0.2	1.67	4	<10	60	<0.5	<2	0.37	<0.5	12	42	26

Comments: NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Project: Hartles Joe

Finalized Date: 26-JUL-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26244		2.50	10	<1	0.04	10	0.67	443	<1	0.01	24	780	5	0.06	<2	2
CC26245		2.48	10	<1	0.05	10	0.67	515	<1	0.02	24	630	5	0.04	<2	2
CC26246		2.35	10	<1	0.04	10	0.69	439	1	0.02	25	870	7	0.06	<2	2
CC26247		4.63	10	<1	0.05	10	1.39	796	1	0.02	49	900	8	0.04	<2	10
CC26248		6.44	10	2	0.05	10	1.60	1800	2	0.01	52	1420	15	0.10	<2	15
CC26249		5.20	10	1	0.05	10	1.40	2070	1	0.02	47	1210	17	0.09	<2	14
CC26250		5.36	10	1	0.05	10	1.22	1140	2	0.01	40	1040	18	0.05	<2	10
CC26451		6.77	10	<1	0.08	10	0.85	1760	<1	0.01	66	1160	7	0.05	<2	18
CC26452		4.73	10	1	0.05	10	1.33	1290	<1	0.01	55	910	7	0.04	<2	10
CC26453		8.02	10	1	0.06	10	2.45	1250	2	0.01	91	1310	13	0.07	<2	20
CC26454		3.07	10	<1	0.04	10	0.78	615	1	0.03	29	980	23	0.06	<2	3
CC26455		1.97	10	<1	0.03	10	0.48	309	3	0.02	21	930	16	0.07	<2	1
CC26456		2.20	10	<1	0.03	10	0.47	246	1	0.02	17	590	7	0.04	2	1
CC26457		2.13	10	1	0.03	10	0.30	320	<1	0.01	12	490	7	0.05	<2	1
CC26458		1.93	10	<1	0.03	10	0.50	358	1	0.02	16	640	7	0.06	<2	1
CC26459		2.25	10	<1	0.03	10	0.67	328	<1	0.02	24	720	4	0.07	<2	3
CC26430		5.92	<10	<1	0.05	10	1.19	1070	<1	0.01	41	690	19	0.04	<2	15
CC26431		5.18	10	1	0.03	10	1.55	838	<1	0.01	32	780	32	0.07	2	6
CC26432		4.74	10	<1	0.05	10	1.67	995	<1	0.02	39	780	27	0.05	<2	9
CC26433		3.51	10	1	0.06	10	1.22	667	<1	0.02	41	820	11	0.04	<2	4
CC26434		3.50	10	<1	0.06	10	1.10	573	<1	0.02	46	800	11	0.02	<2	5
CC26435		3.74	10	<1	0.04	10	0.74	364	1	0.01	30	540	17	0.05	<2	3
CC26436		3.37	10	<1	0.06	10	1.02	516	<1	0.02	34	770	7	0.04	<2	4
CC26437		3.39	10	1	0.07	10	0.85	450	<1	0.02	28	760	9	0.06	<2	3
CC26438		2.72	10	<1	0.05	10	0.46	451	1	0.01	20	580	4	0.05	2	2
CC26439		5.09	10	<1	0.04	10	1.55	1250	<1	0.02	54	640	7	0.02	<2	15
CC26440		11.95	<10	<1	0.05	10	1.75	2890	<1	0.01	88	850	7	0.04	<2	40
CC26441		5.45	10	1	0.04	10	1.25	1250	1	0.02	56	1020	12	0.09	<2	11
CC26442		3.10	10	<1	0.04	10	0.86	625	1	0.03	30	800	12	0.07	<2	5
CC26443		26.3	<10	1	0.08	<10	0.79	342	9	0.02	13	1440	11	1.44	<2	5
CC26444		6.52	10	<1	0.09	10	1.23	641	1	0.02	47	760	64	0.09	<2	8
CC26445		7.17	10	<1	0.11	10	1.87	1130	1	0.02	50	810	16	0.07	<2	16
CC26446		6.63	10	<1	0.11	10	1.85	1065	1	<0.01	46	660	14	0.01	<2	15
CC26447		2.85	<10	<1	0.05	10	0.66	300	1	<0.01	25	480	6	0.01	<2	3
CC26460		2.85	10	<1	0.03	10	0.92	356	1	<0.01	29	320	4	<0.01	<2	4
CC26461		1.36	<10	<1	0.02	10	0.29	119	1	<0.01	9	510	2	<0.01	<2	1
CC26462		2.89	10	<1	0.05	10	0.80	484	1	<0.01	32	560	7	<0.01	<2	3
CC26463		2.59	10	<1	0.04	10	0.49	336	1	<0.01	20	530	6	0.01	<2	1
CC26464		3.11	10	<1	0.05	10	0.52	966	1	<0.01	22	610	5	0.01	<2	2
CC26465		2.93	10	<1	0.04	10	0.81	540	<1	<0.01	25	540	6	<0.01	<2	4

Comments: NSS is non-sufficient sample.

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC26244		16	<20	0.07	<10	<10	66	<10	41
CC26245		18	<20	0.08	<10	<10	62	<10	39
CC26246		17	<20	0.06	<10	<10	60	<10	50
CC26247		23	<20	0.09	<10	<10	115	<10	77
CC26248		38	<20	0.05	<10	<10	157	<10	86
CC26249		34	<20	0.05	<10	<10	126	<10	84
CC26250		27	<20	0.08	<10	<10	119	<10	82
CC26451		35	<20	0.05	<10	<10	160	<10	104
CC26452		20	<20	0.07	<10	<10	119	<10	80
CC26453		24	<20	0.07	<10	<10	205	<10	134
CC26454		25	<20	0.05	<10	<10	69	<10	54
CC26455		18	<20	0.05	<10	<10	47	<10	41
CC26456		9	<20	0.06	10	<10	53	<10	30
CC26457		9	<20	0.09	<10	<10	62	<10	29
CC26458		11	<20	0.05	<10	<10	48	<10	29
CC26459		24	<20	0.05	<10	<10	56	<10	42
CC26430		17	<20	0.07	<10	<10	146	<10	87
CC26431		15	<20	0.09	<10	<10	132	<10	95
CC26432		18	<20	0.11	<10	<10	118	<10	95
CC26433		17	<20	0.09	<10	<10	84	<10	68
CC26434		20	<20	0.12	<10	<10	77	<10	90
CC26435		17	<20	0.10	<10	<10	74	<10	65
CC26436		15	<20	0.11	<10	<10	81	<10	69
CC26437		12	<20	0.09	<10	<10	80	<10	53
CC26438		13	<20	0.11	10	<10	78	10	41
CC26439		28	<20	0.08	<10	<10	118	<10	65
CC26440		159	<20	0.03	<10	<10	221	<10	117
CC26441		40	<20	0.06	<10	<10	119	<10	80
CC26442		23	<20	0.05	<10	<10	74	<10	61
CC26443		6	<20	0.28	<10	<10	217	<10	49
CC26444		12	<20	0.14	<10	<10	112	<10	233
CC26445		11	<20	0.13	<10	<10	163	<10	250
CC26446		14	<20	0.14	<10	<10	148	<10	159
CC26447		13	<20	0.10	<10	<10	72	<10	43
CC26460		10	<20	0.12	<10	<10	72	<10	49
CC26461		9	<20	0.05	<10	<10	33	<10	21
CC26462		14	<20	0.11	<10	<10	71	<10	50
CC26463		12	<20	0.08	<10	<10	62	<10	42
CC26464		12	<20	0.14	<10	<10	87	<10	41
CC26465		15	<20	0.09	<10	<10	73	<10	48

Comments: NSS is non-sufficient sample.

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Finalized Date: 26-JUL-2007
Account: RCM

Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-ICP21 Au Check ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
CC26466		0.30	0.019		<0.2	1.92	6	<10	80	<0.5	<2	0.33	<0.5	11	42	32
CC26467		0.18	0.015		0.2	1.94	3	<10	110	<0.5	<2	0.54	<0.5	11	36	54
CC26468		0.26	0.128		0.2	2.00	3	<10	80	<0.5	<2	0.28	<0.5	12	42	34
CC26469		0.22	0.003		<0.2	2.23	4	<10	90	<0.5	<2	0.23	<0.5	11	50	24
CC26470		0.20	0.001		<0.2	1.83	<2	<10	140	<0.5	<2	0.30	<0.5	12	43	23
CC26471		0.28	0.004		<0.2	2.00	5	<10	70	<0.5	<2	0.18	<0.5	9	41	18
CC26472		0.18	0.001		<0.2	1.80	5	<10	60	<0.5	<2	0.19	<0.5	10	42	19
CC26473		0.30	0.002		<0.2	2.25	28	<10	200	<0.5	<2	1.02	<0.5	12	90	36
CC26474		0.26	0.001		<0.2	1.75	8	<10	140	<0.5	<2	0.48	<0.5	9	42	21
CC26475		0.20	0.001		<0.2	1.51	10	<10	80	<0.5	<2	0.67	<0.5	10	44	21
CC26476		0.22	0.002		<0.2	1.67	5	<10	110	<0.5	<2	0.76	<0.5	9	41	25
CC26477		0.24	0.002		0.2	1.53	<2	<10	100	<0.5	<2	0.40	<0.5	9	39	20
CC26478		0.22	0.002		<0.2	1.93	7	<10	70	<0.5	<2	0.18	<0.5	8	36	15
CC26479		0.26	0.002		0.2	1.62	83	<10	190	0.8	2	2.27	<0.5	48	129	106
CC26538		0.48	0.005		0.4	2.29	7	<10	80	<0.5	2	0.42	<0.5	20	56	52
CC26539		0.28	0.020		0.6	2.39	8	<10	170	0.6	<2	1.04	<0.5	24	68	63
CC26540		0.36	0.004		<0.2	2.25	7	<10	120	<0.5	<2	0.25	<0.5	11	45	34

Comments: NSS is non-sufficient sample.

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Project: Hartles Joe

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CERTIFICATE OF ANALYSIS VA07069490

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC26466		3.11	10	<1	0.04	10	0.79	468	<1	<0.01	26	620	8	0.01	<2	3
CC26467		2.93	10	<1	0.05	10	0.70	549	1	<0.01	20	900	23	0.04	<2	3
CC26468		3.06	10	<1	0.04	10	0.75	576	1	<0.01	23	800	12	0.02	<2	3
CC26469		2.90	10	<1	0.05	10	0.80	457	1	<0.01	32	570	7	0.01	2	3
CC26470		2.90	10	1	0.05	10	0.69	771	1	<0.01	26	940	9	0.06	2	1
CC26471		2.48	10	<1	0.04	10	0.62	299	1	<0.01	25	490	8	<0.01	<2	2
CC26472		2.55	<10	<1	0.06	10	0.66	396	1	<0.01	24	690	5	0.01	<2	2
CC26473		2.48	10	2	0.06	10	0.89	576	1	0.03	34	1180	9	0.13	<2	3
CC26474		2.05	10	<1	0.03	10	0.61	193	1	0.03	25	690	4	0.05	<2	3
CC26475		2.12	10	1	0.04	10	0.72	279	<1	0.02	26	620	6	0.05	<2	4
CC26476		2.12	10	<1	0.03	10	0.66	223	1	0.02	27	760	7	0.08	<2	3
CC26477		2.11	<10	<1	0.03	10	0.75	226	<1	0.02	23	640	3	0.03	<2	4
CC26478		2.60	10	<1	0.05	10	0.53	409	1	0.01	18	450	10	0.04	<2	2
CC26479		9.15	10	<1	0.07	10	1.75	1730	<1	0.01	84	930	4	0.05	<2	38
CC26538		4.01	10	<1	0.06	10	1.36	930	<1	0.01	37	840	6	0.04	<2	9
CC26539		7.15	10	1	0.06	10	1.26	1130	2	0.02	35	1630	8	0.13	<2	19
CC26540		3.17	10	<1	0.07	10	0.82	532	<1	0.01	26	770	13	0.06	<2	3

Comments: NSS is non-sufficient sample.

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Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC26466		16	<20	0.08	<10	<10	72	<10	48
CC26467		24	<20	0.05	<10	<10	74	<10	60
CC26468		16	<20	0.07	<10	<10	74	<10	54
CC26469		14	<20	0.09	<10	<10	69	<10	59
CC26470		19	<20	0.05	<10	<10	69	<10	62
CC26471		11	<20	0.09	<10	<10	59	<10	42
CC26472		11	<20	0.08	<10	<10	60	<10	49
CC26473		39	<20	0.08	<10	<10	72	<10	67
CC26474		22	<20	0.07	<10	<10	59	<10	37
CC26475		27	<20	0.08	<10	<10	55	<10	43
CC26476		30	<20	0.06	<10	<10	51	<10	43
CC26477		17	<20	0.08	<10	<10	54	<10	37
CC26478		12	<20	0.09	<10	<10	65	<10	38
CC26479		176	<20	0.01	<10	<10	205	<10	104
CC26538		17	<20	0.11	10	<10	109	<10	61
CC26539		32	<20	0.02	<10	<10	154	<10	88
CC26540		16	<20	0.06	<10	<10	73	<10	57

Comments: NSS is non-sufficient sample.

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105694	UTM: 516104	E	6751945	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-01) Rusty-grey weathering, white quartz with orange limonitic carbonate fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105695	UTM: 516091	E	UTM: 6751932	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-02) Rusty-grey weathering, white quartz with orange limonitic carbonate factures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105696	UTM: 516062	E	UTM: 6751920	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-03) Orange weathering carbonate limonite with quartz veins up to 0.5cm.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105697	UTM: 515995	E	UTM: 6751917	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-04) Grey quartz (?) with abundant orange- dark brown boxwork limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105698	UTM: 515959	E	UTM: 6751901	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-05) Brown, highly weathered boxwork limonite (?)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105699	UTM: 515969	E	UTM: 6751867	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-06) Cream-orange weathering, quartz-altered volcanic rock (?) with carbonate and limonitic fractures.

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments:

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105700	UTM: 515756	E	UTM: 6751950	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-07) Cream to orange weathering, quartz-altered volcanic rock (?) with carbonate and limonitic fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105701	UTM: 515667	E	UTM: 6751934	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-08) Orange- light brown weathering, quartz and carbonate altered buff colored volcanic rock.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105702	UTM: 515694	E	UTM: 6752845	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-09) Orange-brown weathering, thinly sheeted carbonate veins with one thicker (2cm) quartz vein.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105703	UTM: 515693	E	UTM: 6751852	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-10) Gray weathering, quartz-veined rock with orange carbonate along fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105704	UTM: 515672	E	UTM: 6751909	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-11) Orange weathering, quartz-rich rock with orange limonite along fractures.

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105705	UTM: 515592	E	UTM: 6752145	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-12) Quartz with orangey-brown carbonate along fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105706	UTM: 515468	E	UTM: 6752241	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-13) Coarse crystalling quartz with orange carbonate limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105707	UTM: 515549	E	UTM: 6752244	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-14) Quartz with minor orange-brown carbonate and trace Py.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105708	UTM: 515720	E	UTM: 6752189	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-15) Quartz with orange-weathering carbonate (rep sawed by Doug)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105709	UTM: 515691	E	UTM: 6752262	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-16) Vuggy white quartz with orange weathering carbonate.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105710	UTM: 515714	E	UTM: 6752430	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-17) Orange-brown weathering, light grey, malachite (?) stained altered limestone (?) with 2 quartz veins (up to 1.3 cm) with bleb of dark grey metallic mineral (energite?). Rep sawed by Doug

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105711	UTM: 515612	E	UTM: 6752542	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-18) Medium brown weathering, dark green volcanic (?) rock with 2 cm wide quartz vein with pyrrhotite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105712	UTM: 515617	E	UTM: 6752544	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-19) Orange-stained quartz with 1.5cm wide bleb of pyrrhotite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105713	UTM: 515443	E	UTM: 6752598	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-20) Quartz vein with orange carbonate along fractures, and trace sphalerite within the carbonate.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105714	UTM: 515166	E	UTM: 6752563	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-21) Quartz vein with graphitic zones, disseminated to blebby pyrite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105715	UTM: 515181	E	UTM: 6752561	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-22) 2cm wide calcite vein with small blebs of Py (Cp?)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105716	UTM: 515163	E	UTM: 6752524	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-23) Quartz with linear zones of chlorite, with disseminated pyrite associated with the chlorite.

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105717	UTM: 515163	E	UTM: 6752524	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-24) Rusty-brown weathering, quartz-rich, altered volcanic (??) with disseminated Py

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105718	UTM: 515173	E	UTM: 6752486	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-25) Rusty-brown weathering quartz with blebby Py and trace Sp

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105719	UTM: 515295	E	UTM: 6754257	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-26) Rusty-red weathering, quartz + jasper rich rock

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105720	UTM: 515317	E	UTM: 6754323	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-27) Buff-orange weathering quartz-carbonate vein, taken approx in place in volcanics, just to south side of saddle, vein zone approx 0.5m wide

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105721	UTM: 515282	E	UTM: 6754241	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-28) Rusty-brown weathering, very quartz rich and quartz veined rock with jasper and minor pyrite (locally abundant within area 3x1m)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105722	UTM: 515287	E	UTM: 6754174	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-29) Rusty weathering quartz vein with chlorite-rich (?) zones, abundant limonite, trace Py (just uphill, seen in place)

Rock Sample Descriptions Project: Hartles Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105723	UTM: 515287	E	UTM: 6754174	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-30) 6cm wide quartz vein, in place with trace blebby Gn and Py

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105724	UTM: 515334	E	UTM: 6753949	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-31) 2 cm wide quartz vein with abundant blebs (up to 1 x 1.5cm) of coarse Py, volcanic host contains lesser cubes of Py

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105725	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-32) Rusty weathering quartz vein with limonite, trace Py (between C105724 and C105726)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105726	UTM: 515208	E	UTM: 6753392	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-33) Rusy weathering quartz with tarnished Py (?) along fractures

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105727	UTM: 515139	E	UTM: 6753276	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-34) Quartz with limonitic fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105728	UTM: 516014	E	UTM: 6753133	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-35) Rusy weathering, diopside skarn with abundant coarse pyrite, boulders of this rock very abundant in talus for quite a ways to the west

Rock Sample Descriptions Project: Harltes Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105729	UTM: 516433	E	UTM: 6753508	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (HJ-SE-36) Rusty weathering, pitted, grey and white quartz vein with abundant limonite and coarse pyrite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105730	UTM: 516751	E	UTM: 6753596	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (DW-03) Quartz vein with trace sphalerite and pyrite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105731	UTM: 516704	E	UTM: 6753595	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (DW-05) Quartz vein bounded by orange-weathering carbonate, blebby Gn and disseminated Py (Cp?)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105732	UTM: 516697	E	UTM: 6753594	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: (DW-06) Quartz vein with blebby Py, adjacent to smaller, 1cm wide quartz vein with very abundant Gn and lesser Py

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments:

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments:

Rock Sample Descriptions Project: Hartles Joe Property: Hartles Joe

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105733	UTM: 515731	E	UTM: 6751398	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Orange-light brown weathering, quartz vein with orange carbonate and limonite. No split

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105734	UTM: 515388	E	UTM: 6752064	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Light brown weathering quartz with trace pyrite and carbonate. No split

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105735	UTM: 515234	E	UTM: 6752144	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Light brown to orange weathering, intrusive (?) rock with abundant criss-crossing quartz veins and orange carbonate. No split

Sample Number:	Grid East: 11+150W	E	Grid North: 10+125N	N	Type:	Dimension:
C105736	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with graphitic planes.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105737	UTM: 516630	E	UTM: 6753700	N	Sample Width:	Abundance:
	Elevation:	m				

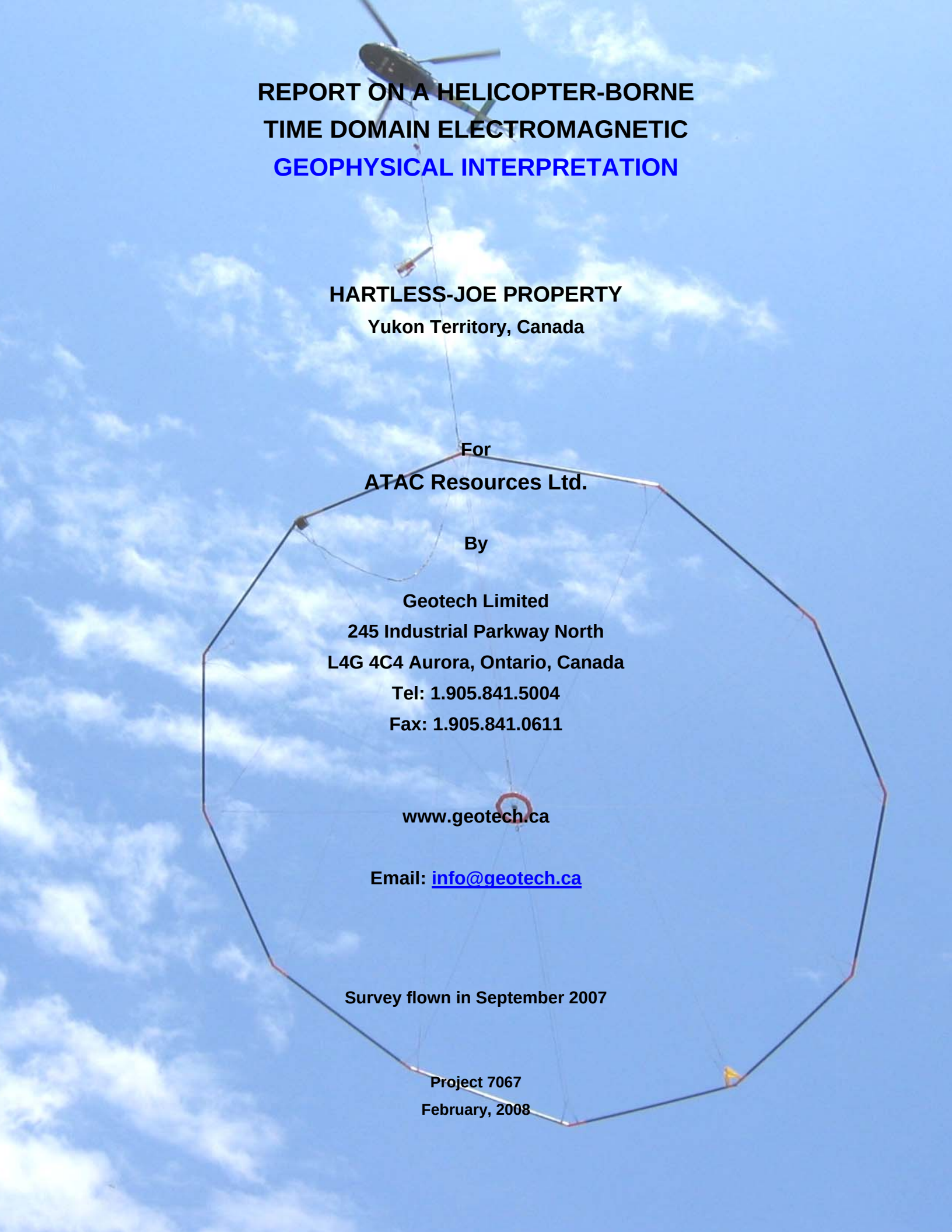
Comments: Rust weathering, dark green diopside skarn with pyritic (+ other sulphide?) fractures up to 2 mm wide. From area of anomalous Cu soil sample

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C105738	UTM: 516630	E	UTM: 6753700	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Rust-yellow weathering and strongly weathered, pyrite and limonite rich skarn. From area of anomalous Cu soil sample

APPENDIX IV

GEOPHYSICAL REPORTS BY GEOTECH LTD., INCLUDING CD'S WITH DIGITAL VTEM AND MAGENTIC DATA



REPORT ON A HELICOPTER-BORNE TIME DOMAIN ELECTROMAGNETIC GEOPHYSICAL INTERPRETATION

HARTLESS-JOE PROPERTY

Yukon Territory, Canada

For

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By

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Survey flown in September 2007

Project 7067

February, 2008

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REPORT ON A HELICOPTER-BORNE
TIME DOMAIN ELECTROMAGNETIC INTERPRETATION

Hartless-Joe Property, Yukon Territory, Canada

1. INTRODUCTION

In August, 2007 a helicopter-borne electromagnetic survey was carried out by Geotech Ltd. for Atac Resources Ltd. over the HARTLESS-JOE Property located in Yukon Territory, Canada.

This report includes the results of the geophysical interpretation, over this Property. The Property is located at approximately 25 km north-east from Whitehorse, in the Yukon Territory. The geographic coordinates of the block extents are: longitudes, 134º 44'56" W and 134º 40'18" W, and latitudes, 60º 53'22" N and 60º 55'36" N. The surveyed area is 13 km^2, and the total line kilometers flown are 170 km (Fig. 1).

The survey was conducted using Geotech Ltd VTEM system. Principal geophysical sensors included a versatile time domain electromagnetic system and a high resolution cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter.

Data processing and map compilation, including generation of final digital data products were achieved at the office of Geotech Ltd in Aurora, Ontario.

The present report describes the results of the geophysical interpretation of this Property.

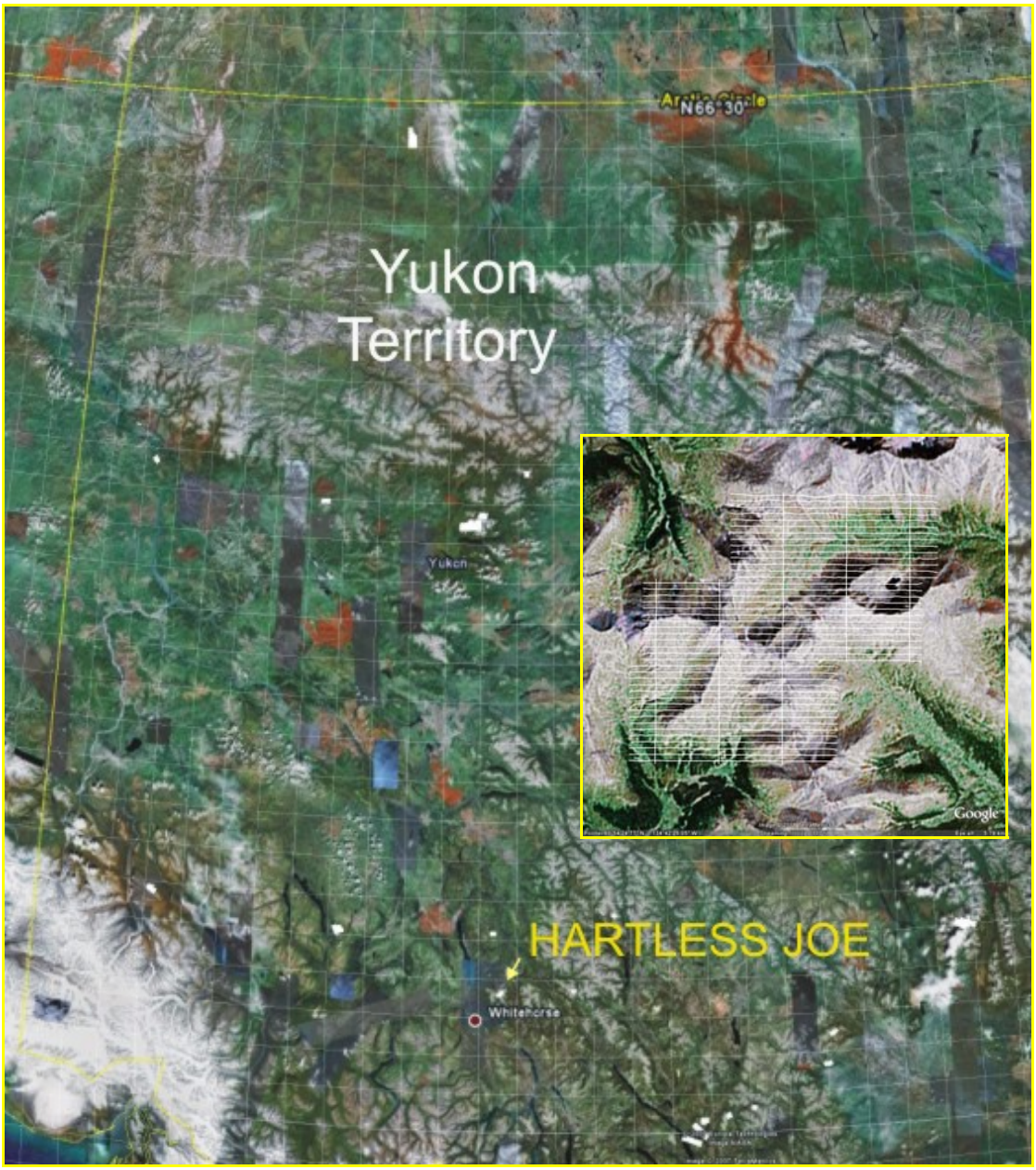

Fig. 1 Location map of the HARTLESS-JOE Property on the satellite image.

2. SURVEY DESCRIPTION

In September 2007, Geotech Ltd. carried out a helicopter-borne geophysical survey over the HARTLESS-JOE property located in Yukon. Geotech Ltd. utilized a Versatile Time Domain Electromagnetic System to measure the electromagnetic induction field (B-field) and the vertical component of its time derivative (dB/dt). The electromagnetic measurements were made at the off-time mode. The concentric in-loop system was towed at a distance of 42 m from the helicopter. The VTEM Transmitter uses a trapezoid waveform shape with 7.2 ms duration operating at a base frequency of 30Hz. The dipole moment was approximately 425 000 NIA. The half-waveform was 16.7 ms.

A towed cesium and high resolution magnetometer was used to measure the Earth's magnetic field intensity. Data positioning and navigation were assured by a Novatel WAA GPS with accuracy less then 3 m.

A Terra TRA radar altimeter was used to measure the terrain clearance. The helicopter was flying at a constant speed of 80 km/h and an average ground clearance of 90 m. The traverse lines direction was EW and the tie lines direction was NS. The distance between the traverse lines and the tie lines was 100 m and 1000 m, respectively. A more detailed description of the survey parameters is provided in the logistics/processing report.

3. *GEOLOGICAL CONSIDERATIONS*

3.1 Topography

The terrain is mountainous and very rugged with alternating valleys and streams. The absolute altitudes range from 1250 m to 1850 m approximately. Due to the terrain roughness in the eastern area, it was difficult to keep a constant ground clearance while surveying this area.

Fig.2 Topographic relief map of the HARTLESS-JOE Property with flight path.

3.2 Regional geological context

The Yukon Territory is situated in the northern part of the large geologic (and physiographic) belt known as the Cordillera. It is composed of relatively young mountain belts that range from Alaska to Mexico. The Yukon Territory is composed of a diverse type of rocks recording more than a billion years of geological history. Most of them have been affected by folding, faulting, metamorphism and uplift during various tectono-metamorphic events over at least the last 190 million years. This deformation has resulted in a complex arrangement of rock units and the mountainous terrain that has shaped today's geology. Geologically, Yukon is divided into two main components which are largely separated by the Tintina Trench. Formations northeast of the Tintina Fault consist of a thick, older sequence of sedimentary rocks which was deposited upon a stable geological basement. Rocks southwest of the Tintina Trench are composed of a younger, complex mosaic of igneous and metamorphic, representing numerous accreted terranes (Fig. 3).

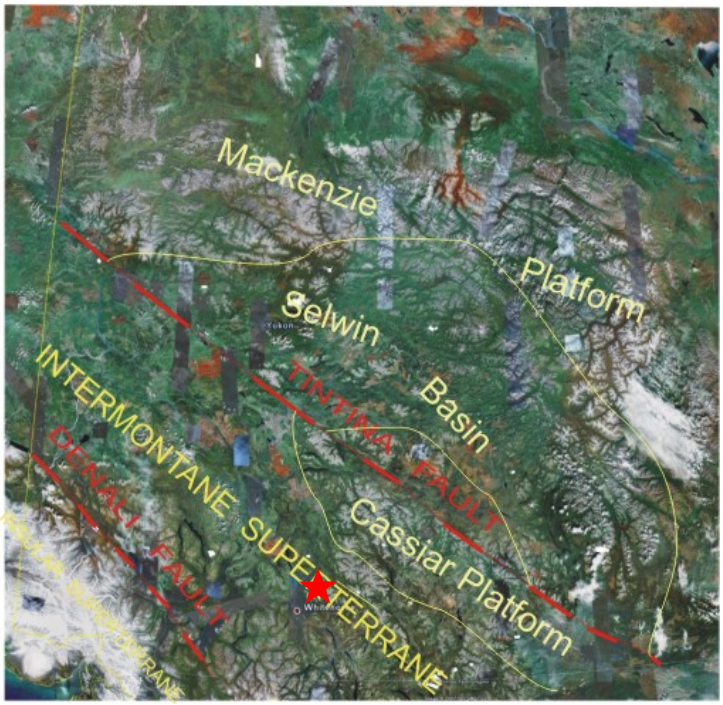

Fig.3. The major tectonic elements of Yukon superimposed on the satellite image. The figure indicates that the territory is composed of two dominant rock packages separated by the Tintina Fault: thick packages of sediments (northeast) and accreted Terranes (Southwest). The star indicates the location of the HARTLESS-JOE property.

3.3 Geological context of the HARTLESS-JOE Property

The Hartless Joe property is underlain by Joe Mountain Formation consisting of several main units and composed essentially of basalt, volcanoclastic and sedimentary rocks. The Aksala Formation (uTH) consist of undifferentiated sedimentary rocks with siltstone, shale, sandstone, conglomerate, diamictite and locally limestone. The lowermost volcanic unit (mJM3) is dominated by well-preserved pillow basalt flows. Unit mJM_2 consists of recessive, well-bedded, tan-brown and grey-black argillite, with more resistant hyaloclastic conglomerate, pebbly sandstone and gritty limestone beds. Parts of this unit are supposed to have formed from a chaotic volcanic and carbonate rich debris flow.

3.4 Mineralization

The dominant mineralization type discovered to date is structurally related, however, examples of stratigraphically controlled gold-silver bearing material and silica-carbonate healed breccias were also documented.
Obvious identifiable sulphides consist of pyrite, galena, arsenopyrite, chalcopyrite and sphalerite. Examination of polished sections under binocular microscope exhibit unidentifiable grey and black minerals suspected to be tellurides and sulphosalts rimming known sulphides. Alteration assemblages developed along vein margins consist primarily of sericite and chlorite.

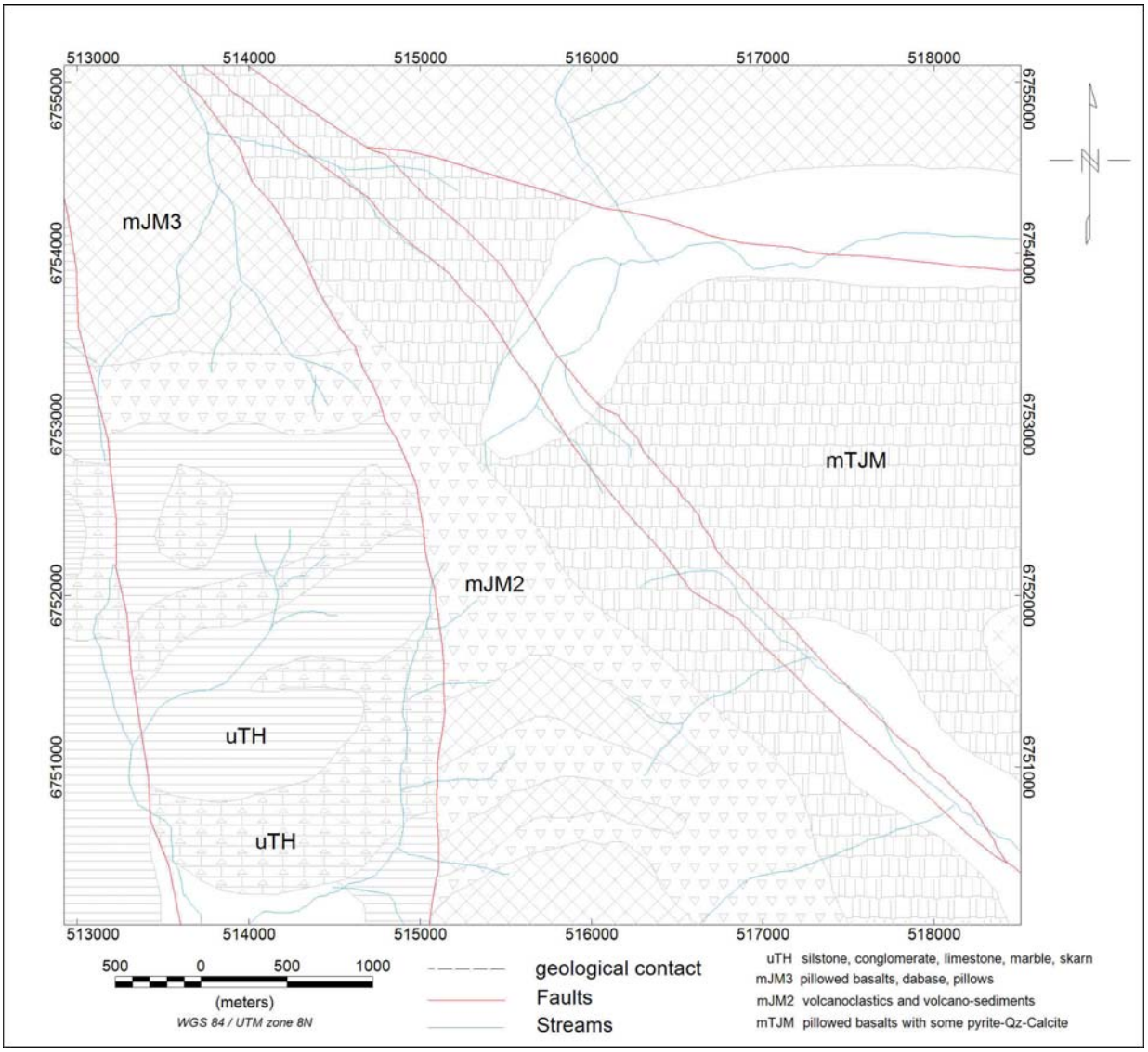

Fig. 4 Simplified Geological map of the HARTLESS-JOE Property.

4. INTERPRETATION OF THE MAGNETIC DATA

4.1 Introduction

Aeromagnetic surveys are routinely used as a powerful tool at different stages in mining exploration and in geological mapping. Because geological formations have different concentrations of magnetic minerals, they exhibit different magnetic signatures in the magnetic field, depending on the susceptibility contrast of rocks and the characteristics of the magnetic field. Thus, observed magnetic field over an area, can provide useful information that can assist the lithological and the structural mapping. It can be used to detect iron-rich mineral deposits, and/or mineral deposits associated with highly magnetic rocks (mafic and ultramafic formations).

4.2 Analysis of the Magnetic data

The observed magnetic field over the HARTLESS-JOE Property is shown in Figs. 5a-5b. The total magnetic field values are ranging from 56900 nT to 58400 nT approximately, yielding an amplitude difference of 1500 nT. The TMI map exhibits a high magnetic activity in the eastern and northern parts of the property, where strong anomalies are observed. The nature of the anomalies is supposed to be associated with mafic rocks. A local anomaly is observed in the southwestern corner of the map over the sedimentary rocks. It is possibly related to a hidden mafic structure.
Low amplitude and short wavelength lineaments trending roughly in the NS and NW directions are indicated in the central area. They represent the signature of the existing faulting system. In the southwestern part of the block, the magnetic field exhibits a quiet character over the non-magnetic sediments composed mainly of siltstone, conglomerate, dolomite, limestone and marble.

Since the contents of the observed magnetic maps include the response of shallow and deep magnetic sources, it is difficult to analyze the maps containing various wavelength anomalies. Distinguishing shallow features from deeper ones can be performed via several methods of field separation and filtering.

Figure 6 shows the reduced to the pole magnetic field map, upward continued to 200m. The map shows smoother anomalies with reduced intensities. The map clearly shows a magnetic high in the eastern part of the block related to hidden mafic rocks. A large magnetic low is observed over the sediments in the southwestern area. The magnetic low and the magnetic high are separated by a gradient area northwesterly trending and caused by the faulting system.

Figure 7 illustrates the vertical gradient of the TMI. The vertical gradient is used to enhance magnetic signals caused by shallow sources and related to faults, dykes and contacts.
The map shows strong short wavelength signals in the eastern and northern parts of the block related

to surfacial mafic rocks. It also highlights several NS and NW trending lineaments associated with faulting system. On the other hand, the tilt derivative map illustrated in Fig. 8 yields another example of amplifying signals associated with shallow sources. The tilt derivative known as being the local phase is computed from the vertical and horizontal gradients. As illustrated in the Tilt derivative map, a clearer outline of the linear magnetic structures related to mafic rocks and faults is provided. It also shows a better definition of the NS trending lineaments associated with faults (Southern area). The vertical gradient and tilt derivative maps are very useful for helping to understand the structural patterns of the area.

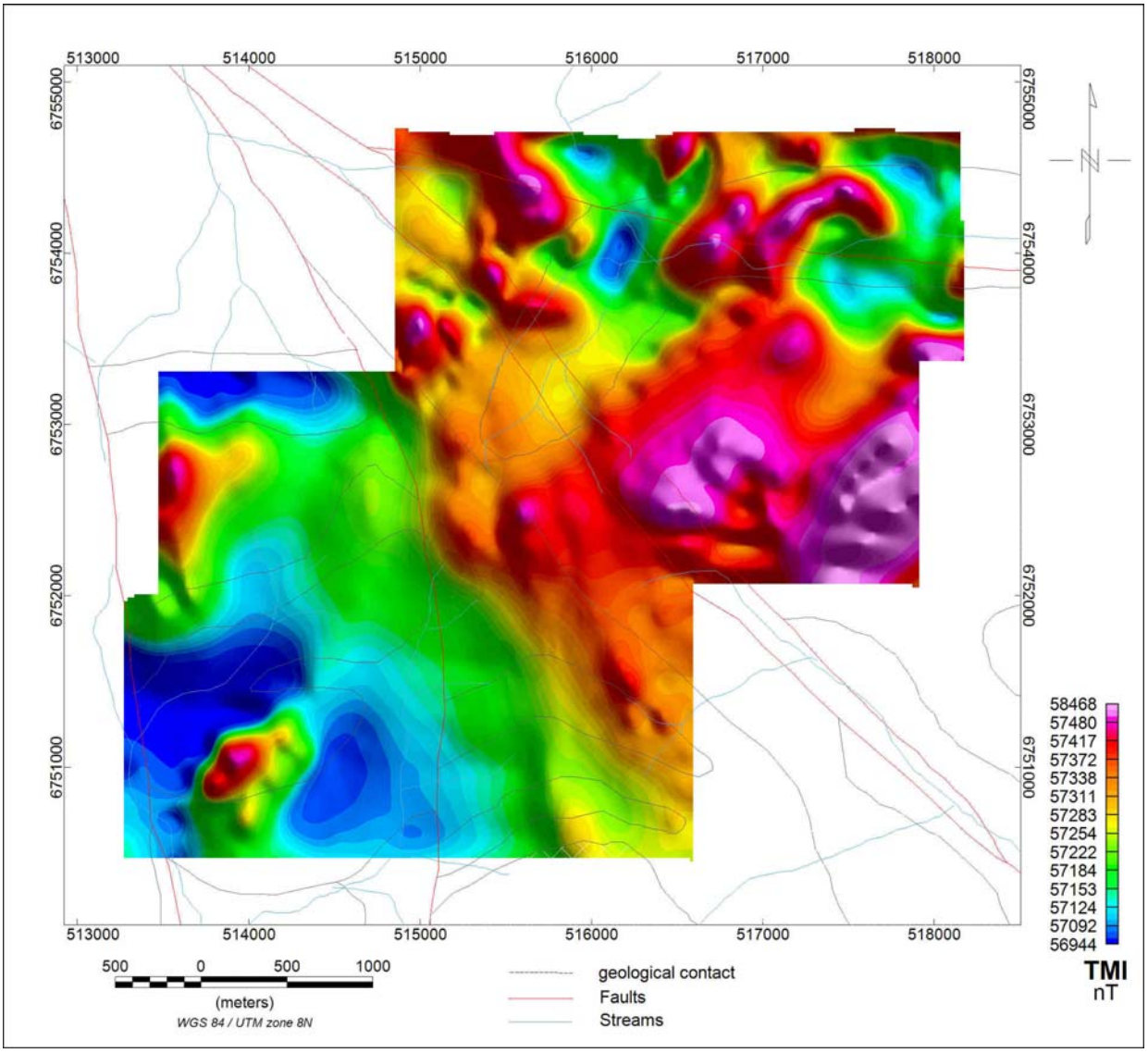

Fig. 5a TMI image of the HARTLESS-JOE Property.

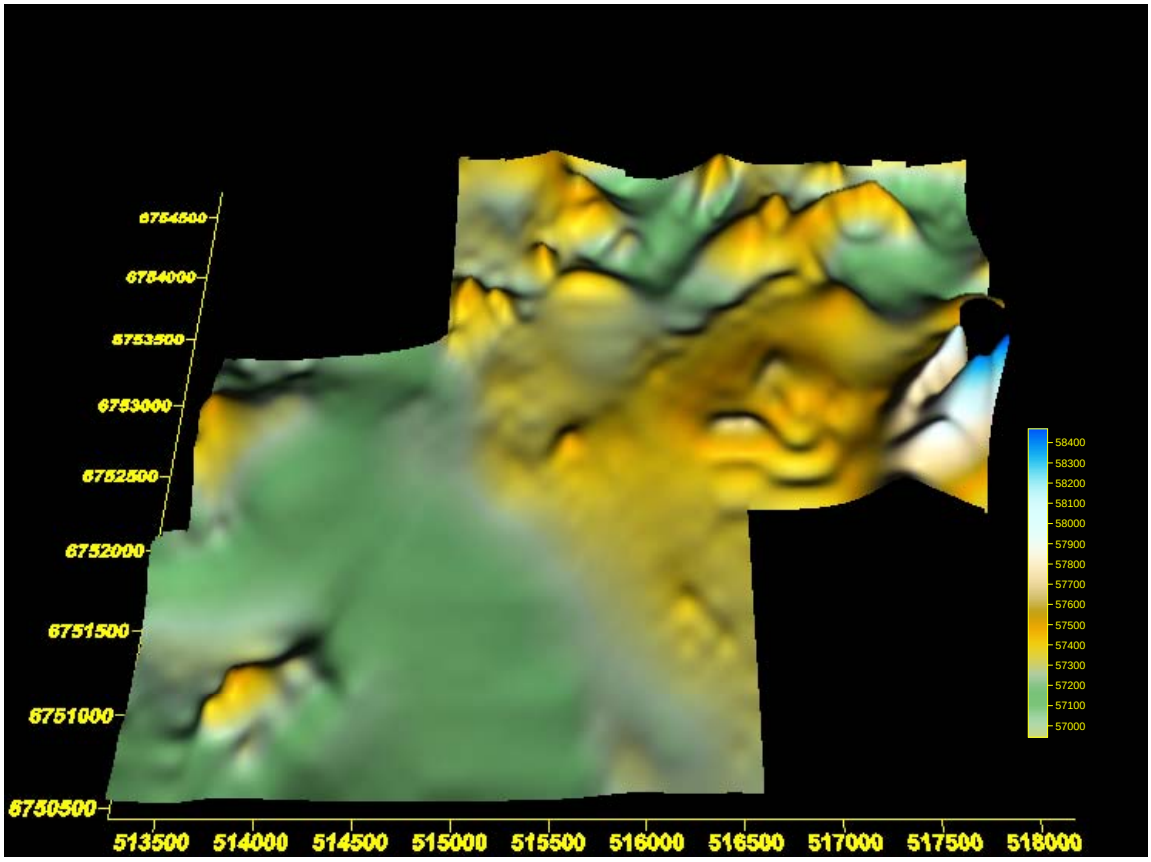

Fig. 5b Perspective view of the magnetic relief of the HARTLESS-JOE Property. The map clearly shows magnetic lows over the eastern area related to non magnetic calcareous shale.

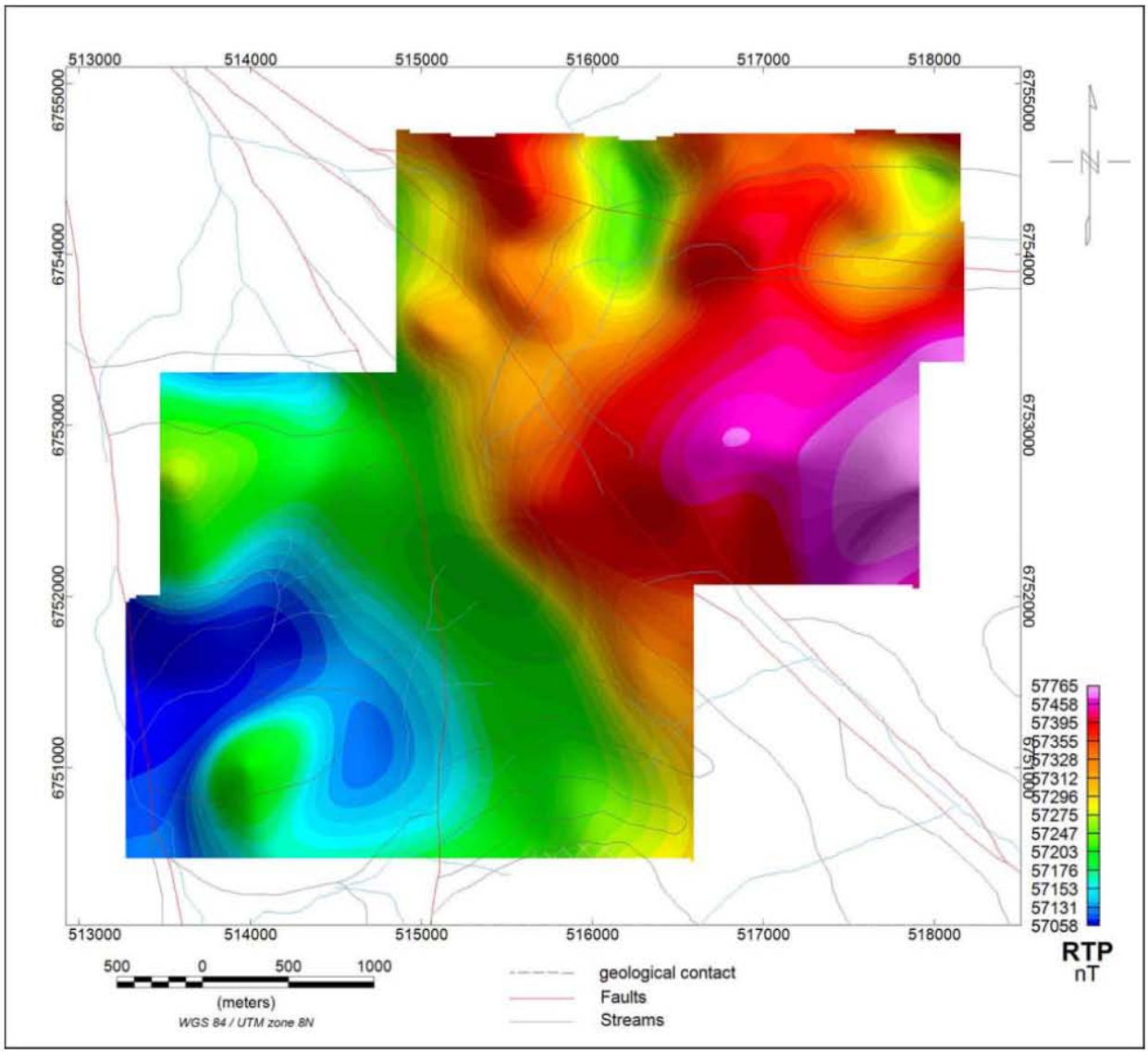

Fig.6 Color shaded relief of reduced to the pole TMI (upward continued to 200m).

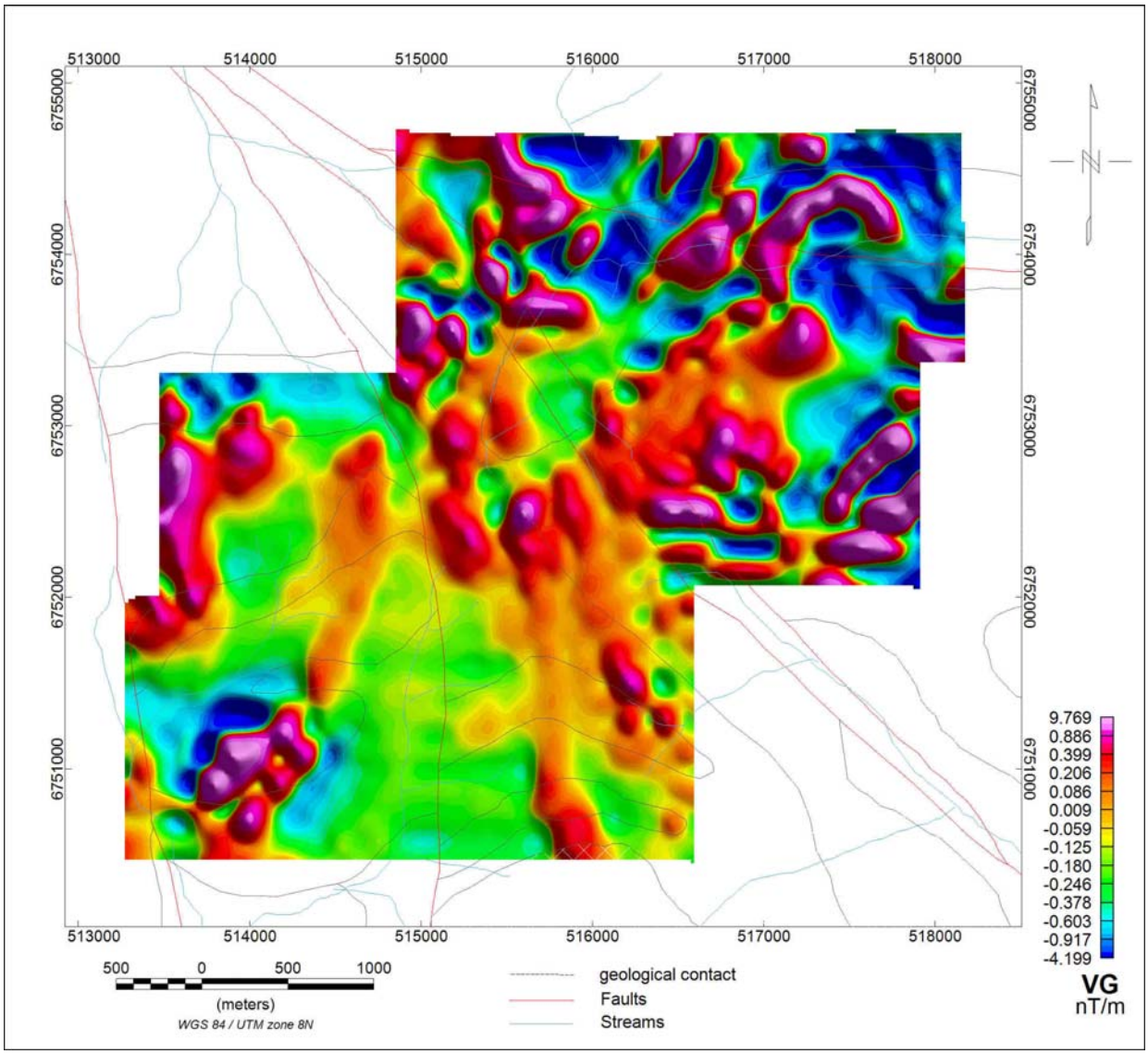

Fig.7 Color shaded relief of the vertical gradient of the magnetic field.

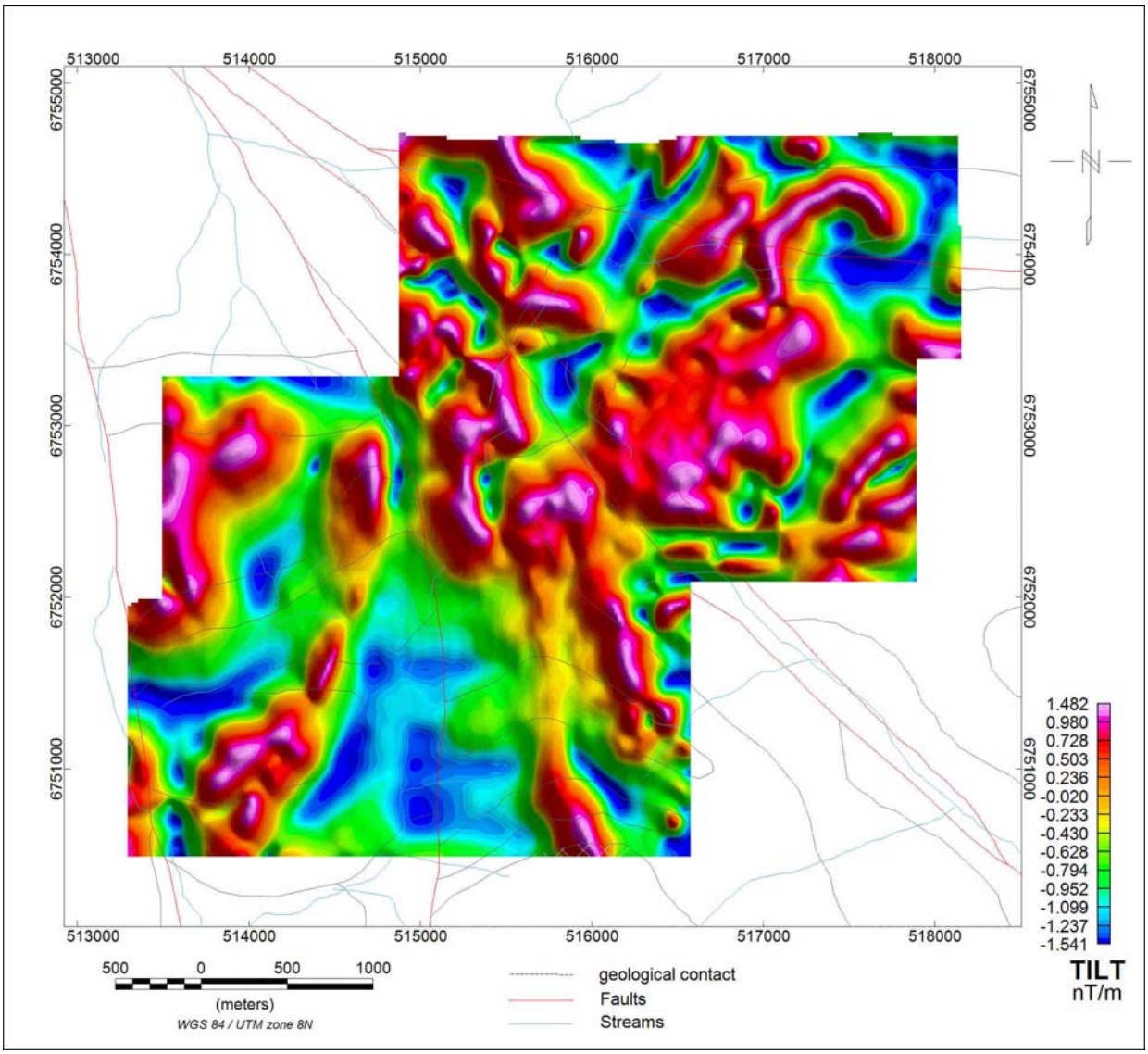

Fig. 8 Color shaded relief of the tilt derivative.

4.3 Inversion of the magnetic data

Several computer-based techniques can be used to automatically detect magnetic sources and yield estimations of their geometrical and physical parameters. These techniques can be either used to gridded data (3D methods) or to profiles (2D methods). Euler deconvolution is a well established technique, allowing a rapid interpretation of a large amount of magnetic data. This method is mainly aimed to delineate magnetic sources boundaries and to estimate their depths.
Fig. 9 shows the results obtained with the Euler deconvolution inversion using a structural index of 1, a depth tolerance of 10% and a square deconvolution window with a size of 400 × 400 metres. Euler solutions have been plotted on the total gradient (analytic signal) map for a better illustration. The peaks of the total gradient are also used to locate and delineate magnetic sources boundaries. The advantage of the total gradient (analytic signal) is that the location and delineation of magnetic bodies is independent of the magnetization and the inducing magnetic field direction.
Euler solutions are mostly located in the northern and eastern parts of the blocks. Solutions are also observed in the southwestern corner of the block, where they mark the outline of a hidden magnetic structure. The solutions mostly indicate shallow structures (<100m), the nature if which is supposed to be associated with hidden mafic rocks. Results obtained with the Euler deconvolution confirm the qualitative analysis conducted with the reduced maps and can be efficiently used for the structural mapping of the area.

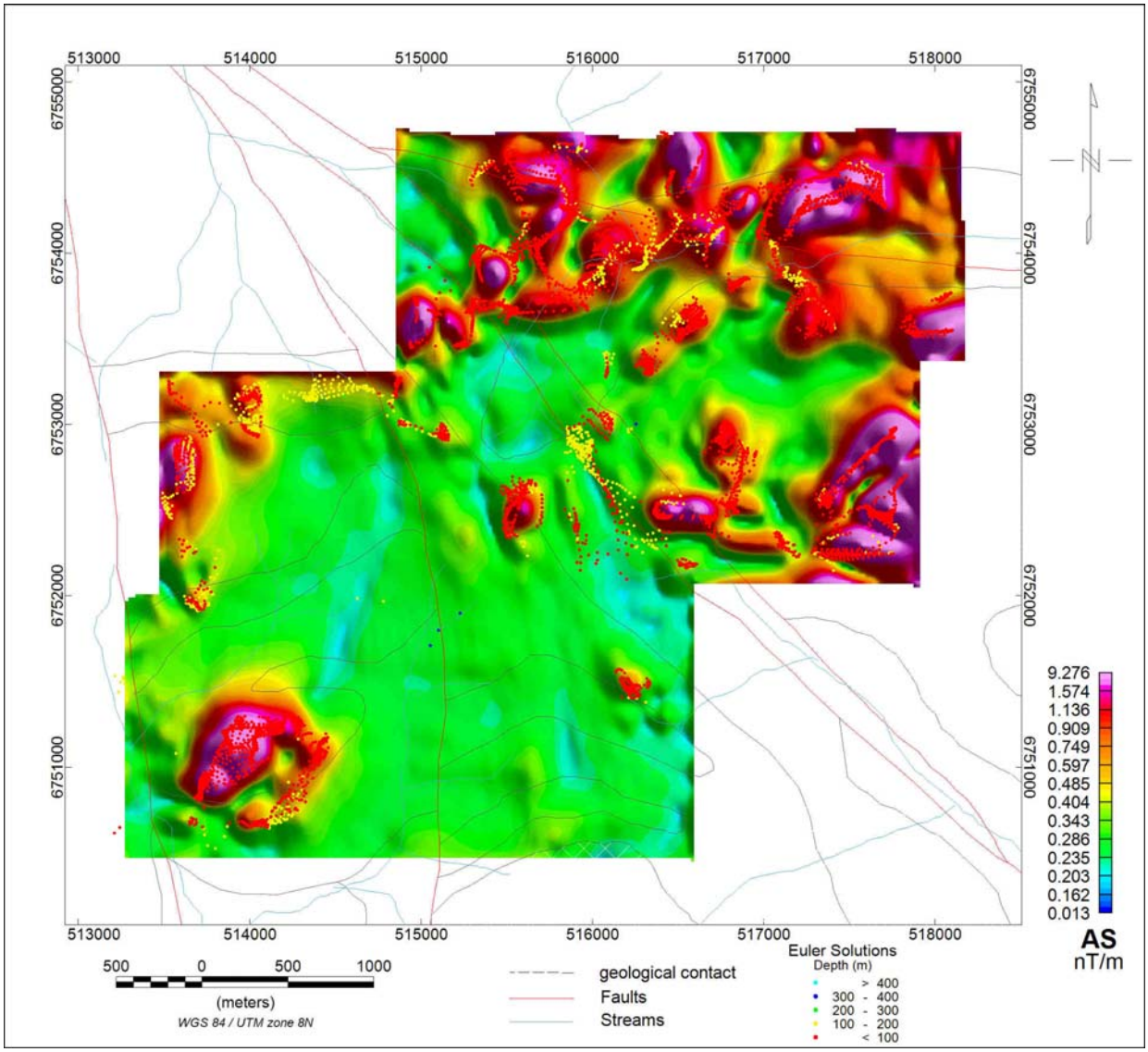

Fig. 9 Euler deconvolution solutions plotted on the total gradient image.

5. INTERPRETATION of the VTEM DATA

5.1 Introduction

Transient electromagnetic surveys have proven to be a very efficient tool in mineral exploration by detecting hidden deposits characterized by higher conductivities than the medium in which they are embedded. Because Time domain systems have a much greater depth penetration compared to the Frequency domain systems, these systems are considered as a tool of choice in the mining exploration. The Geotech Helicopter VTEM system, operating in the Time domain, uses concentric-loop geometry with the receiver mounted in the centre of a larger transmitter loop. Both loops are oriented in the vertical plane. This configuration has a number of advantages, as a maximum coupling, sharper anomalies by comparison to airborne fixed wing systems, and the shape of the anomalies in independent of the flight path orientation. Furthermore, the high moment transmitter combined with the lower terrain clearance yields stronger secondary field signals in most conductors when compared to other systems. The actual VTEM systems measure both the electromagnetic induction field B and its time derivative dB/dt. This system specificity has a lot of advantages, as the dB/dt better resolves the shallow conductive sources while the B-field exhibits a better resolution for deep conductors.

5.2 VTEM anomalies shape

For concentric-loop geometry systems when both loops are oriented in the Z-axis (VTEM system) thick dipping or horizontal conductors exhibit a characteristic single peak, while steeply dipping and thin conductors manifest a double peak. The minimum indicates the location of the top of the thin conductor, and the major peak indicates the side towards which the conductor is dipping. Synthetic models anomalies were generated for the plate type conductors are provided in the Appendix A to better understand the shape of the VTEM anomalies

5.3 Analysis of the EM results

Figures 12 and 13 show the stacked profiles in pseudo-logarithmic scale of the dB/dt and B-field decays, respectively. Both maps indicate the existence of one weak anomalous zone located in the southwestern portion of the block.
The zone consists of broad and weak anomalies trending roughly in the NE direction. They are observed over uTH unit sediments composed mostly of siltstone, conglomerate, marble and skarn. Their shape indicates either a horizontal layer (Fig. 10) or thick steeply dipping poor conductor (Fig. 11).
The interpretation of the EM profiles was performed using in-house built software for automatically picking the anomalies along the profiles and yielding estimates of the conductance and the decay constant (tau) of isolated anomalies. The picked EM anomalies were posted on mid-time and late time EM channels. Figures 14 and 15 illustrate the results of the picked anomalies superimposed on the dB/dt, and B-Field mid time channel (0.974 ms after the current shut off), respectively. Figures 16 and 17 show the same results on late-time channel (6.578 ms after the current shut off), dB/dt and B-Field data, respectively. As illustrated from the maps, only mid-time channel provides a weak response but no obvious anomaly is shown in the late time channel image.

Picked anomalies are concentrated in the southwestern portion of the property. However, the estimated conductance values are low (<2.5 S) and the calculated decay constants are negligible (<1ms), hence, excluding the existence of good conductors in this block. The anomalies are located in the uTH sedimentary unit and either related to weathered horizon or skarnified area.

It is worth mentioning that the anomalous zone is controlled by NS trending magnetic lineament indicating a possible metallic nature (disseminated sulphides and magnetite) as illustrated in Fig. 18.

The interpretation map (Fig. 19) shows the results of the magnetic and electromagnetic analysis superimposed on the total gradient image. The magnetic interpretation suggests the existence of several shallow magnetic bodies of mafic nature in the north-eastern part of the block. It also suggest the presence of a hidden mafic (probably intrusive) with circular shape in the south-western corner of the property. Several faults trending roughly in NS and NW directions have been identified. Weak EM anomalies were detected in the South-western portion of the map. They are probably associated with weathered horizon or poor conductive skarnified zone. This zone is controlled by NS trending fault.

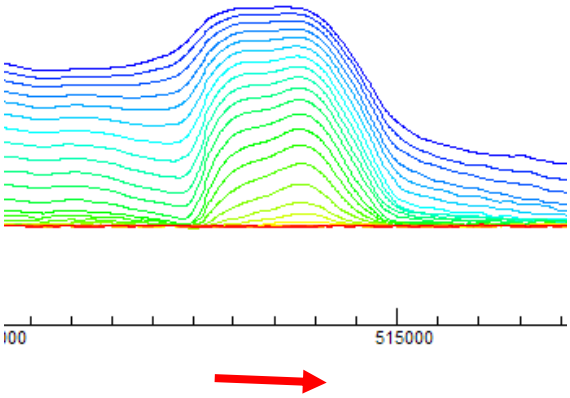

Fig. 10 EM decays over for the western portion of the line 13270 (Northern zone). The shape of the decays suggests shallowly dipping conductive bedrock (nearly horizontal) as indicated by the red arrow.

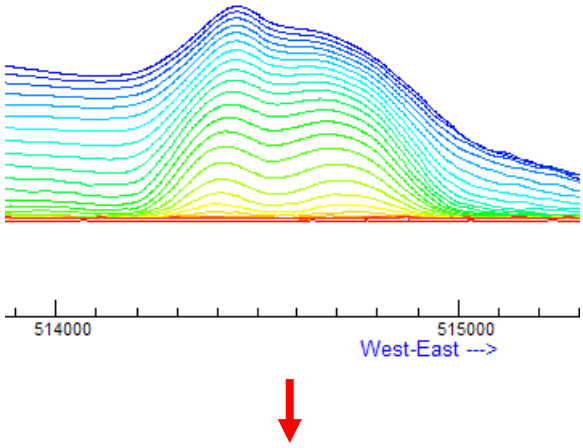

Fig. 11 EM decays over for the western portion of the line 13290 (Southern zone). The shape of the decays suggests steeply dipping thick conductive bedrock as indicated by the red arrow.

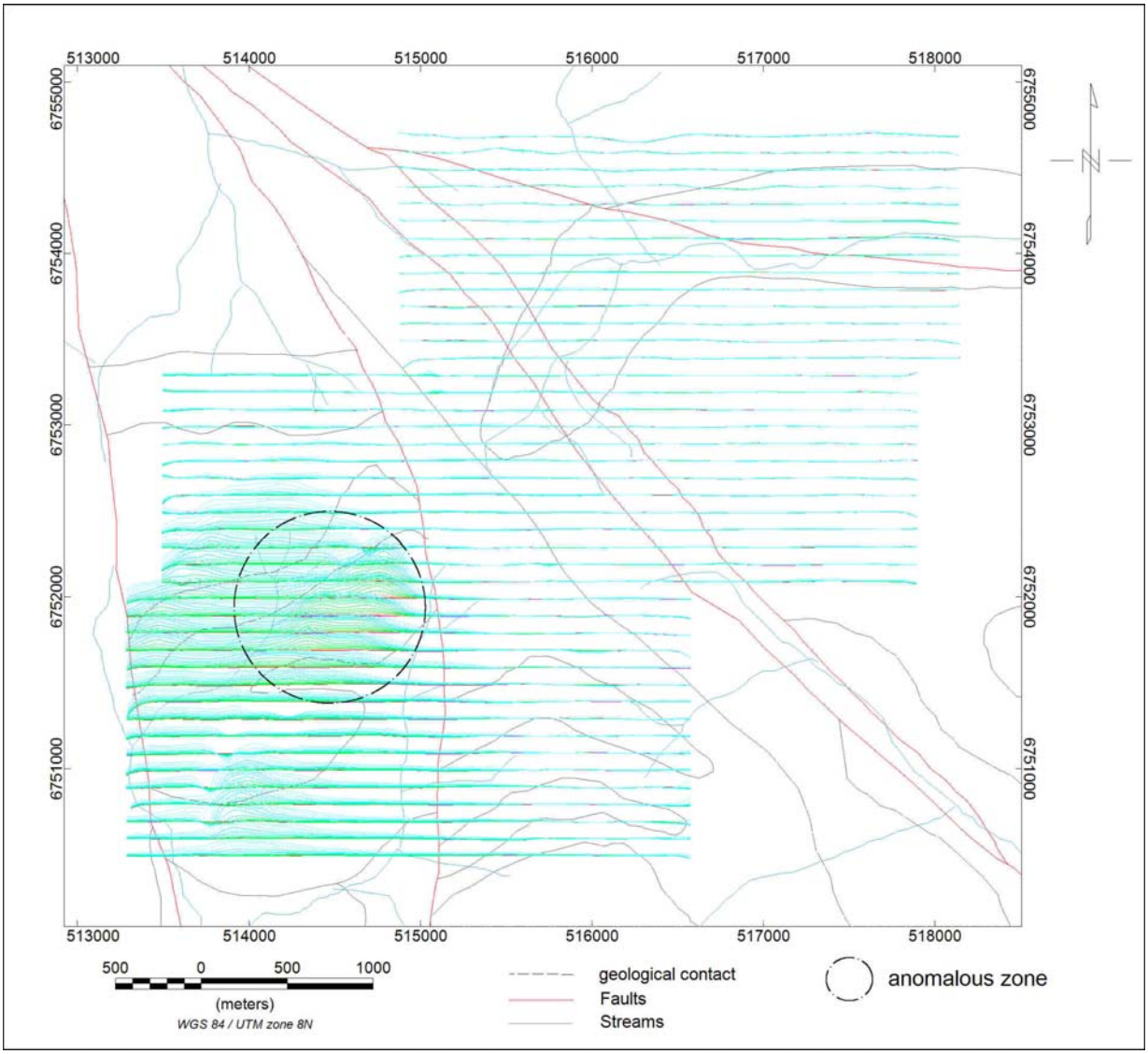

Fig. 12 EM dB/dt stacked profiles at log-linear scale. Early time decays are in green and late time in red. Anomalous zone is indicated in the southwestern part.

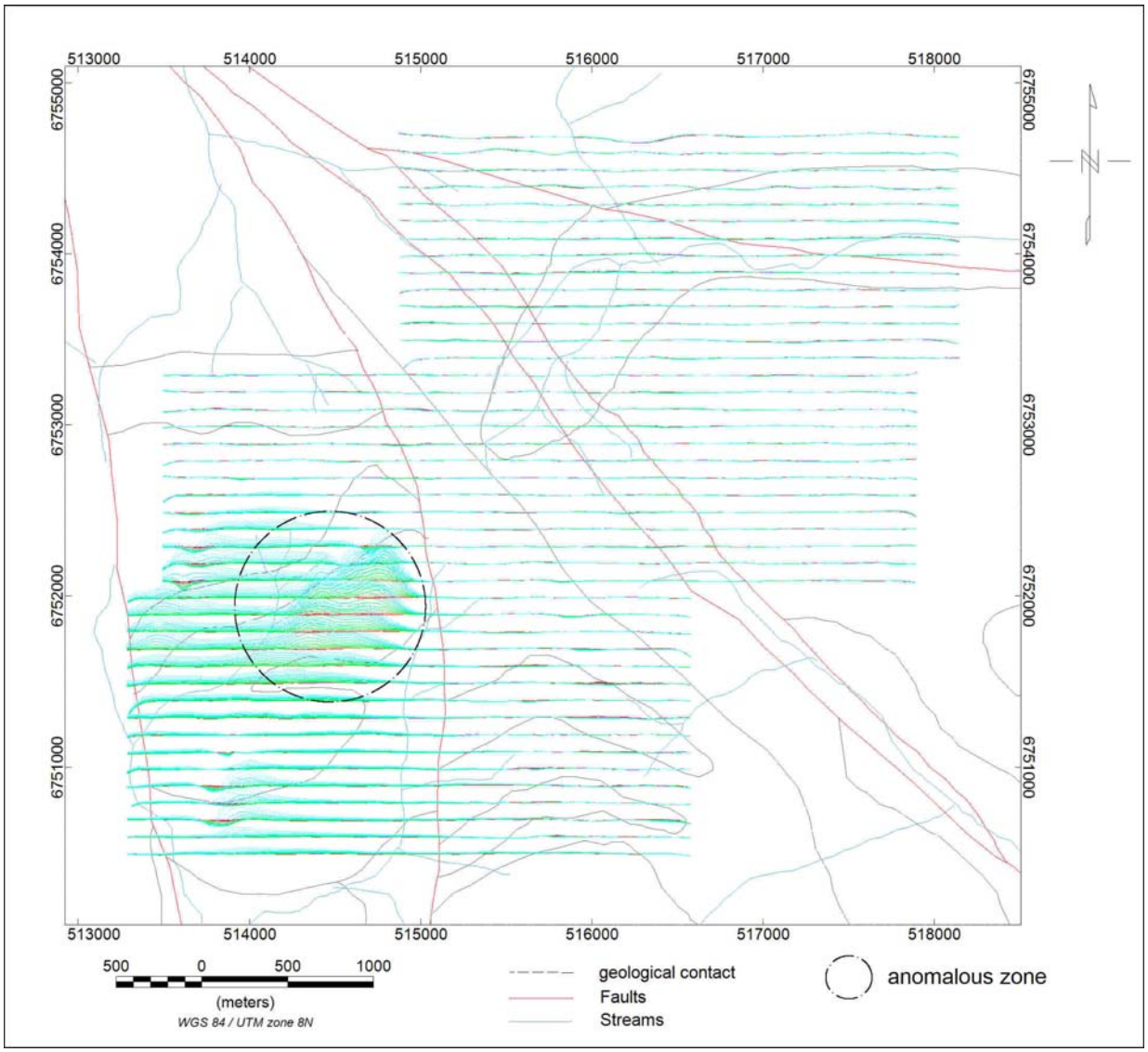

Fig. 13 EM B-Field stacked profiles at log-linear scale. Early time decays are in green and late time in red. Anomalous zone is indicated in the southwestern part.

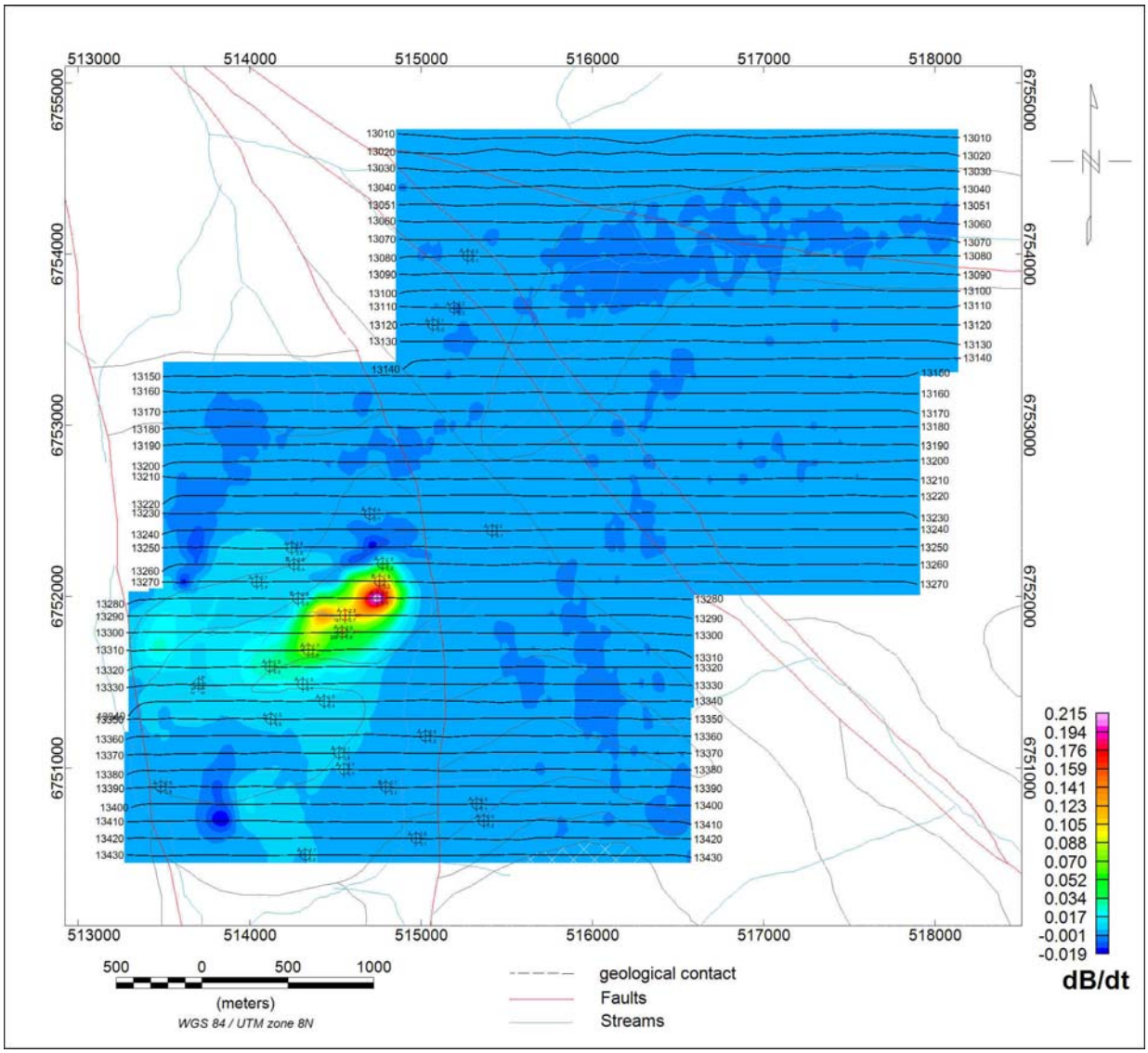

Fig. 14 EM picked anomalies plotted on the mid-time dB/dt channel image (0.974 ms after current shut off). Weak EM response is indicated in the southwestern part of the block.

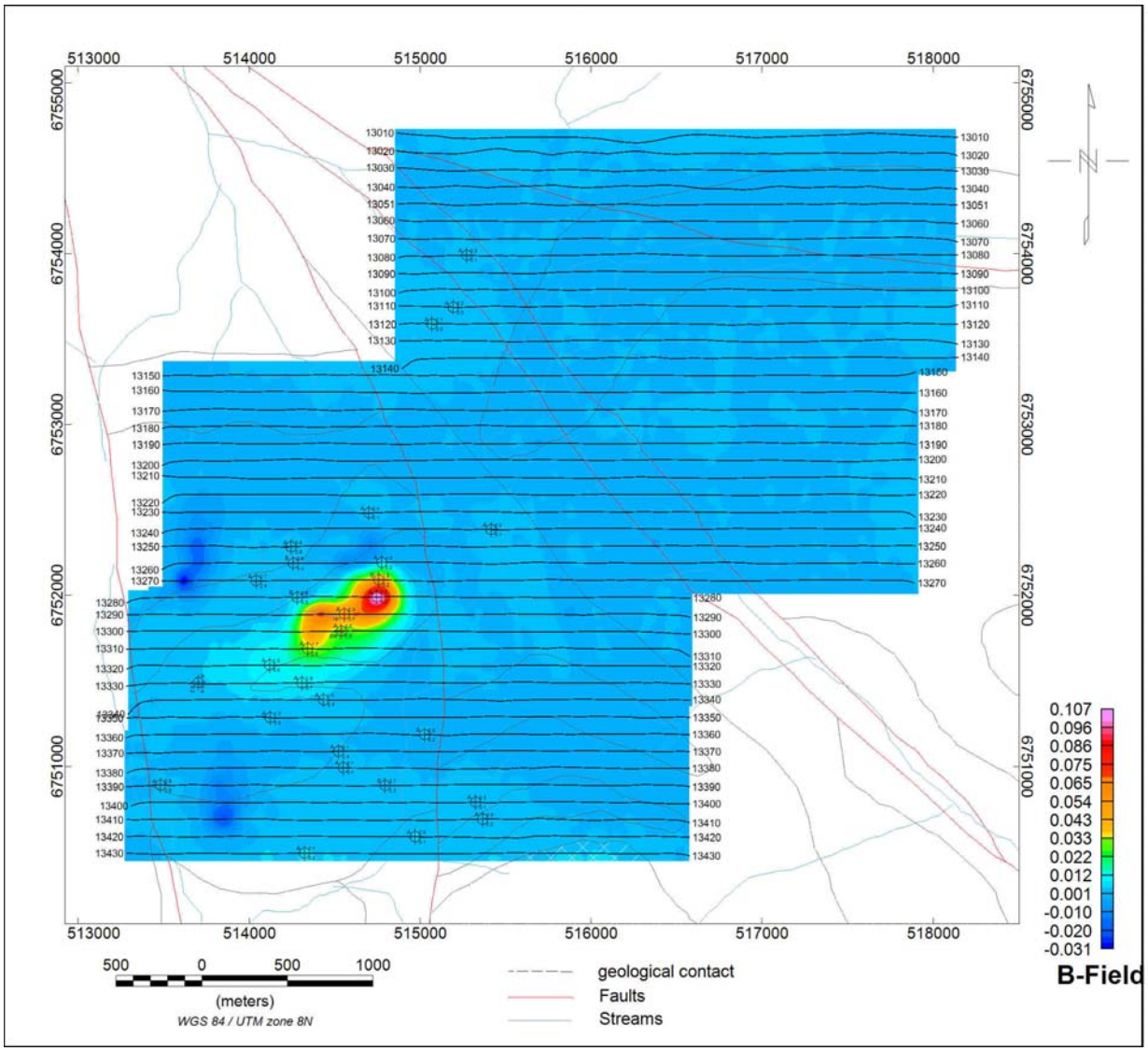

Fig. 15 EM picked anomalies plotted on the mid-time B-Field channel image (0.974 ms after current shut off). Weak EM response is indicated in the southwestern part of the block.

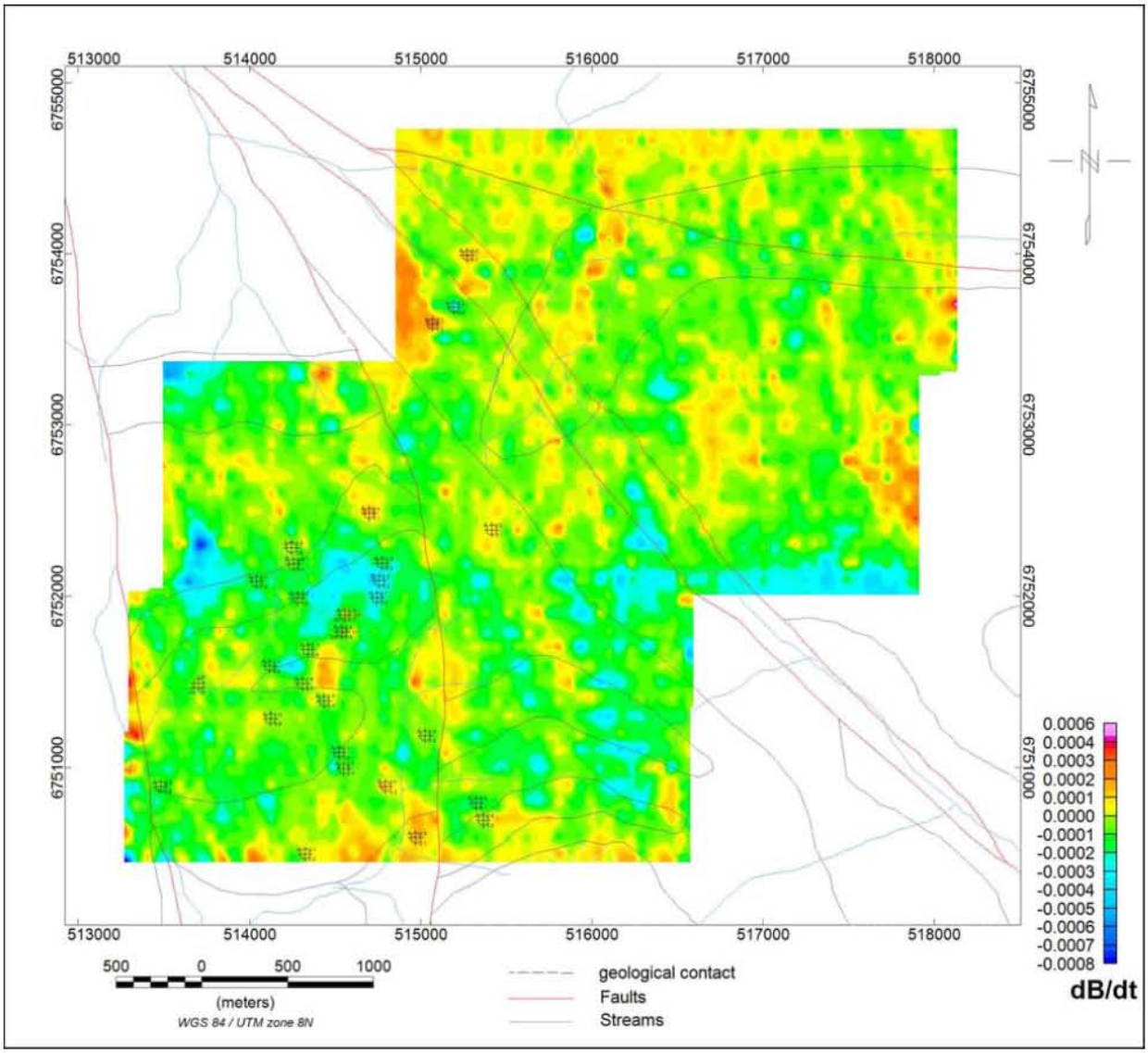

Fig. 16 EM picked anomalies plotted on the late-time dB/dt channel image (6.578 ms after current shut off). The map does not shown any obvious anomaly.

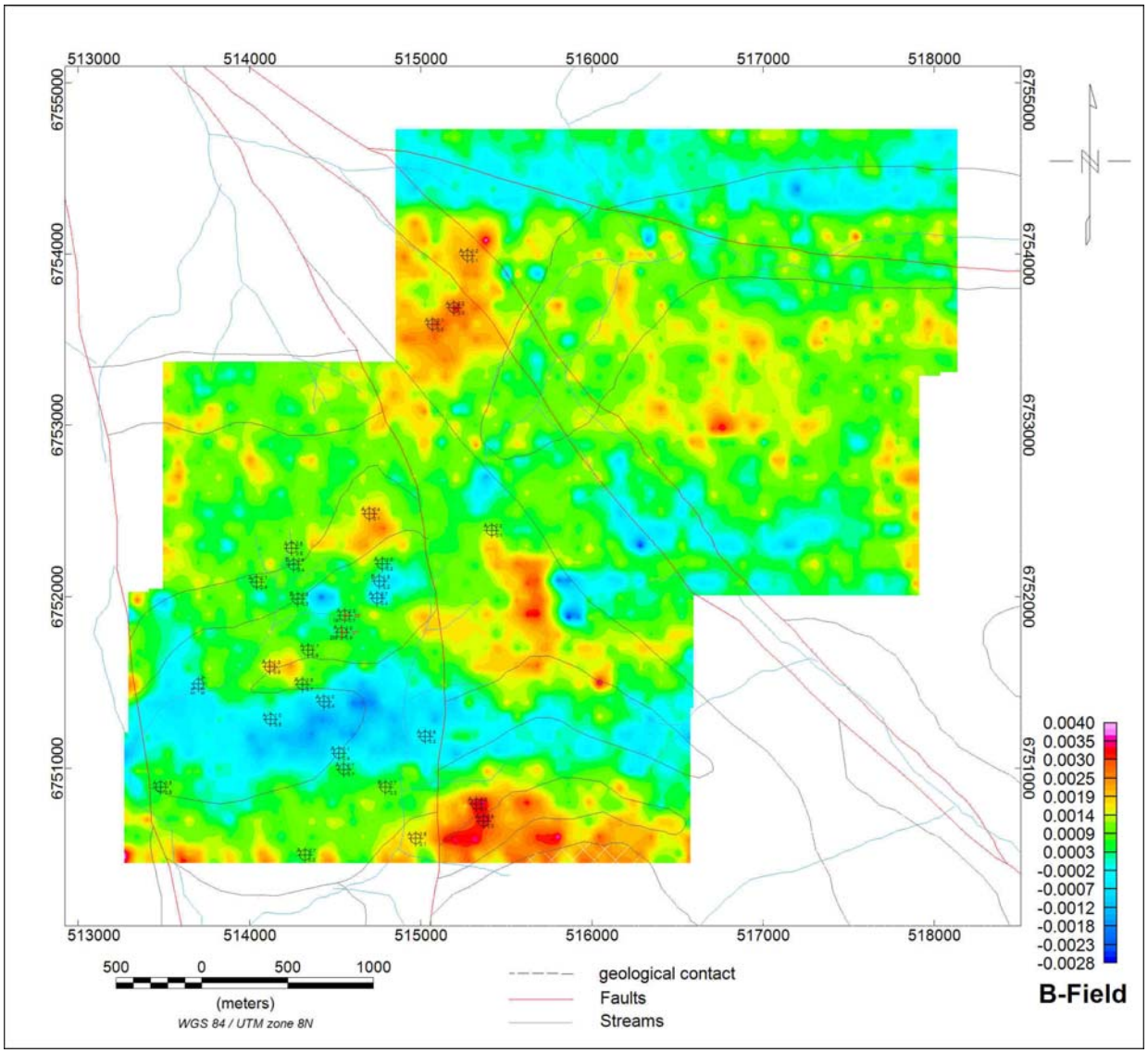

Fig. 17 EM picked anomalies plotted on the late-time B-Field channel image (6.578 ms after current shut off). The map does not shown any obvious anomaly.

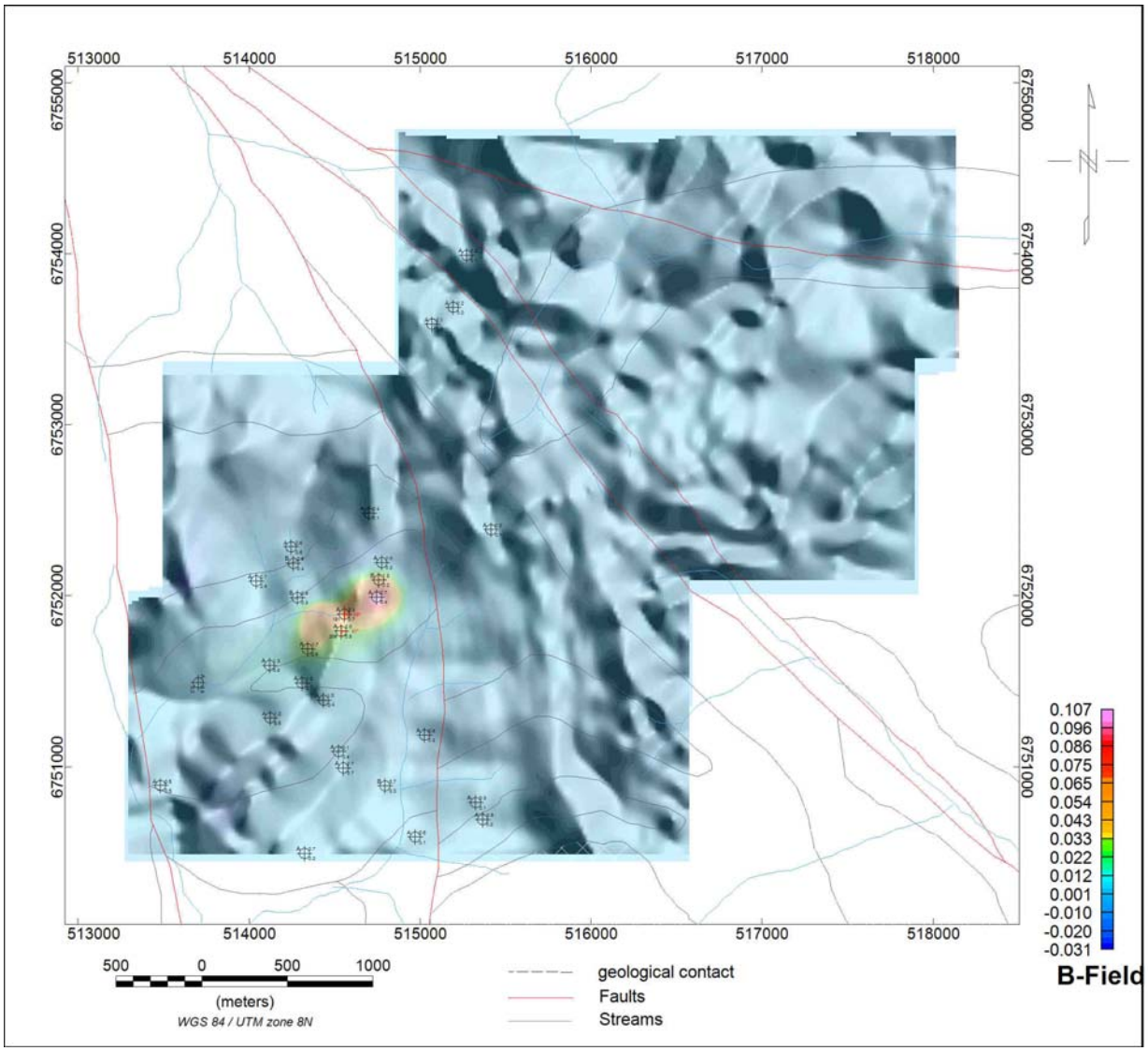

Fig. 18 Mid-time B-Field channel image superimposed on the shaded relief of the tilt derivative. The map clearly shows a good correlation of the anomaly with NS trending magnetic lineament.

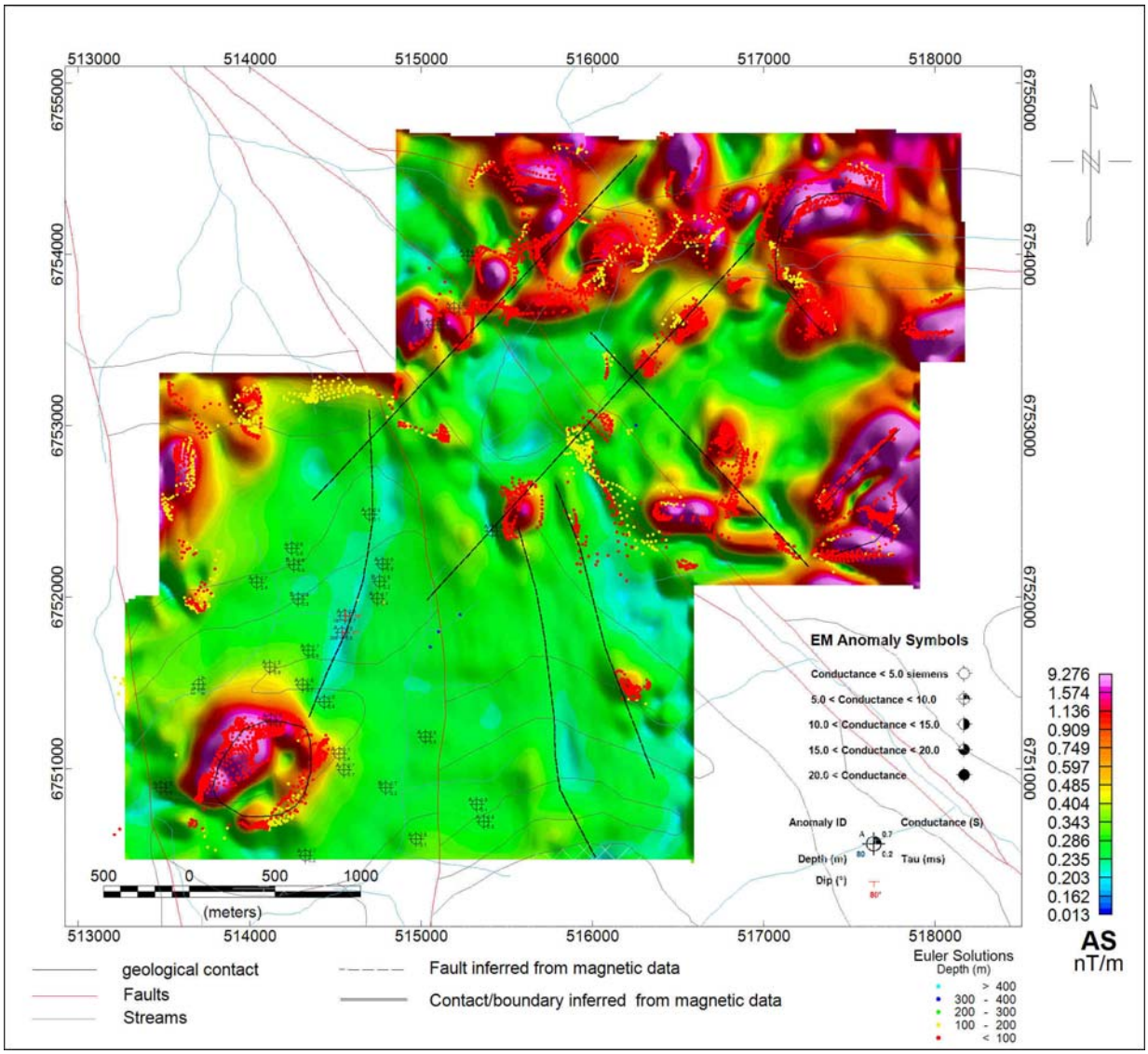

Fig. 19 Interpretation map showing the results of the magnetic and electromagnetic data analysis.

5.4 Selected Anomalies

As mentioned above most of the picked anomalies are characterized by low conductance values (< 5S) and negligible decay cstants (<1ms). However, some anomalies have been extracted from the described above anomalous zone for modeling by converting the EM decays into CDIs. The anomalies are located on the following lines: L13270, L13280, and L13290. The summarized characteristics of the selected anomalies are given in the following table.

Line	Anomaly ID	Anomaly Type description	Conductor geometry	X- location m	Y- location m	Conductance S	Dip	Dip Azimut	Tau msec
L13270	B	Anti-symmetric broad Single peak	Shallowly dipping plate	514757	6752093	1.8	Horiz.	NS	0.2
L13280	A	Anti-symmetric broad Single peak	Shallowly dipping plate	514745	6751993	2.7	Horiz.	NS	0.4
L13290	A	Symmetric Double peak	Thick steeply dipping plate	514555	6751892	2.3	Vert.	NS	0.7

Table 1. Summarized results of selected anomalies.

5.5 Conductivity Depth Sections

Conductivity depth imaging is considered as one of the important steps in the analysis and interpretation of electromagnetic data. CDI allows providing useful information of the conductivity distribution of the considered cross section. CDIs were performed for the selected lines using the EMflow software (Figs.20-22).

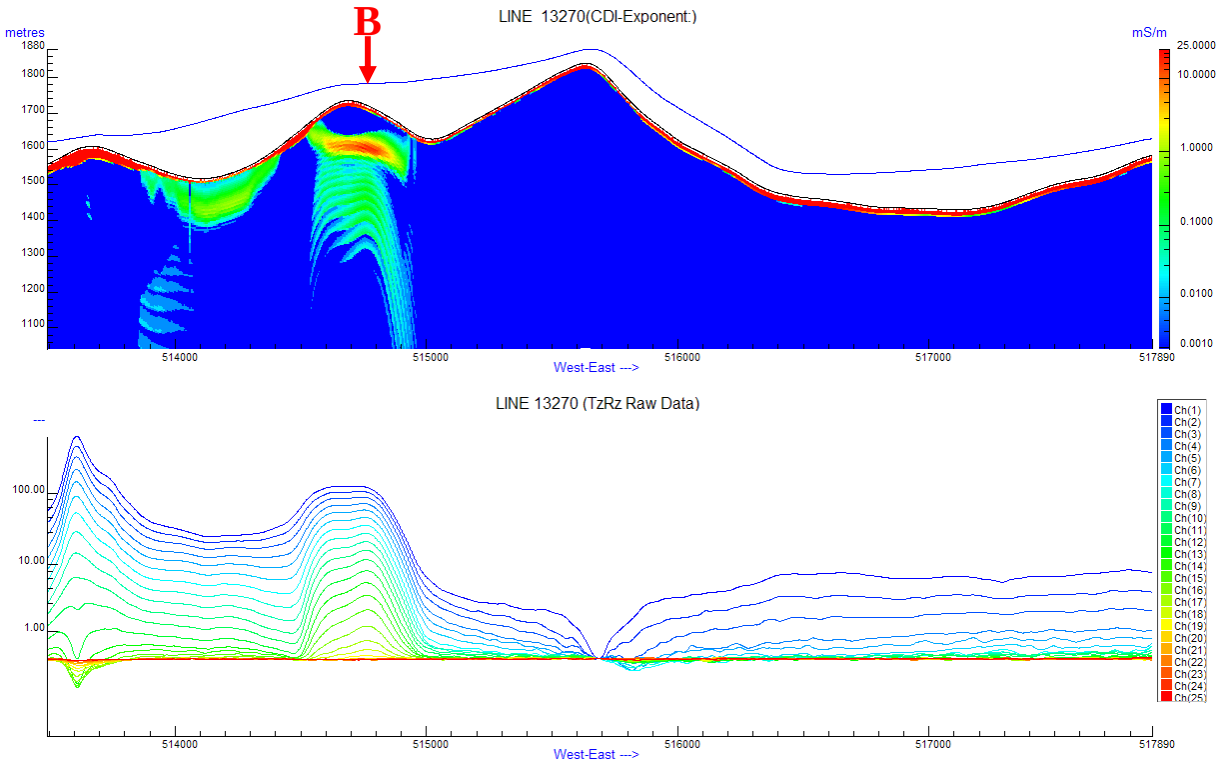

Fig. 20 shows the CDI section for the line L13270. The section indicates the existence of shallowly dipping poor conductive bedrock in the left side of the section. The approximate depth of the layer is <150m. The conductive area is supposed to be associated with weathered horizon or poorly conductive skarnified zone. Letter B indicates the location of the anomaly on the map.

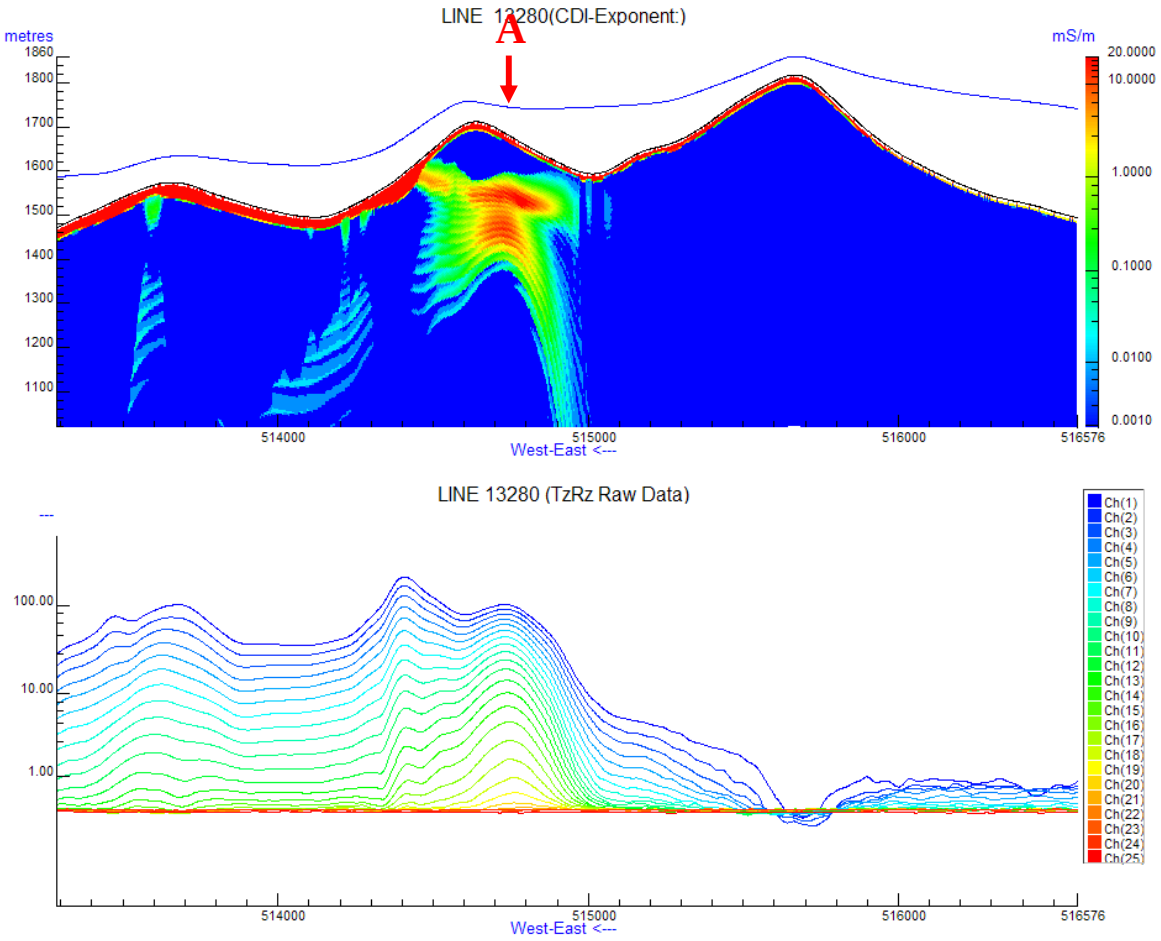

Fig. 21 shows the CDI section for the line L13280. The section indicates the existence of shallowly dipping poor conductive bedrock in the center of the section. The approximate depth of the layer is <150m. The conductive area is supposed to be associated with weathered horizon or poorly conductive skarnified zone. Letter A indicates the location of the anomaly on the map.

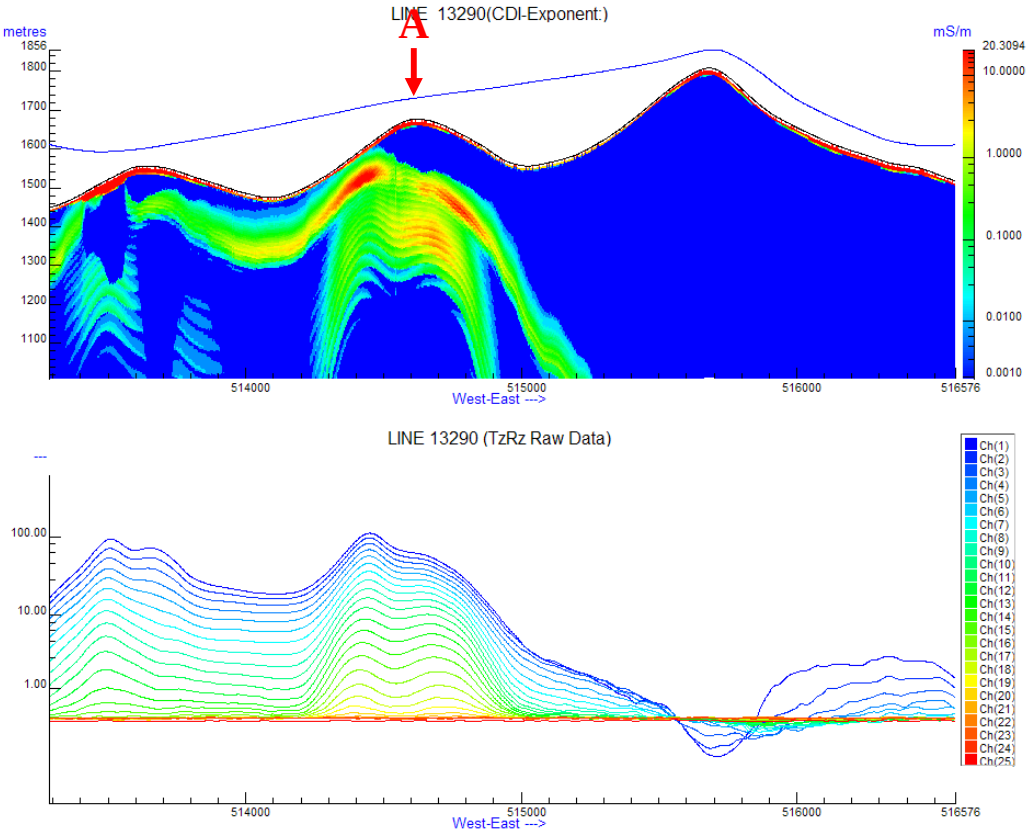

Fig. 22 shows the CDI section for the line L13290. The section indicates the existence of shallow (<200m) poor conductive bedrock.. Letter A indicates the location of the anomalies on the map.

6. CONCLUSIONS AND RECOMMANDATIONS

The magnetic interpretation suggests the existence of several shallow magnetic bodies of mafic nature in the north-eastern part of the block. It also suggest the presence of a hidden mafic (probably intrusive) with circular shape in the south-western corner of the property. Several faults trending roughly in NS and NW directions have been identified. The estimated depths from the Euler deconvolution are mostly less than 100m.
The VTEM survey revealed the existence of a weak anomalous zone located in the southwestern part of the property supposed to be associated with weathered horizon or poor conductive area. The anomalous zone is controlled by a NS trending fault. At this stage of interpretation it is difficult to determine the nature of the detected conductive bedrocks; however, an association with disseminated sulphides may be possible.

The recommendation is therefore to conduct some drilling tests on the selected anomalies to determine the nature of the conductive bedrock.

Respectfully submitted,

Dr. Nasreddine Bournas
Geotech Ltd.
February, 2008

7. REFERENCES

1. J. CHEN, A. RAICHE, AND J. MACNAE, 2000, Inversion of airborne EM data using thin-plate models, SEG 2000 expanded abstracts.

2. STOLZ, E.M.G. AND MACNAE, J.C., 1991 Evaluating EM waveforms by singular-value decomposition of exponential functions. Geophysics, 63, 64-74

3. A.B. REID, J.M. ALLSOP, H. GRANSER, A.J. MILLETT AND I.W. SOMERTON, 1990, Magnetic interpretation in three dimensions using Euler deconvolution, , G*eophysics, 55, 80-91.*

4. Yukon Geological Survey, www.geology.gov.yk.ca
5. www.atacresources.com

APPENDIX A

VTEM ANOMALY MODELING

I. THIN PLATE

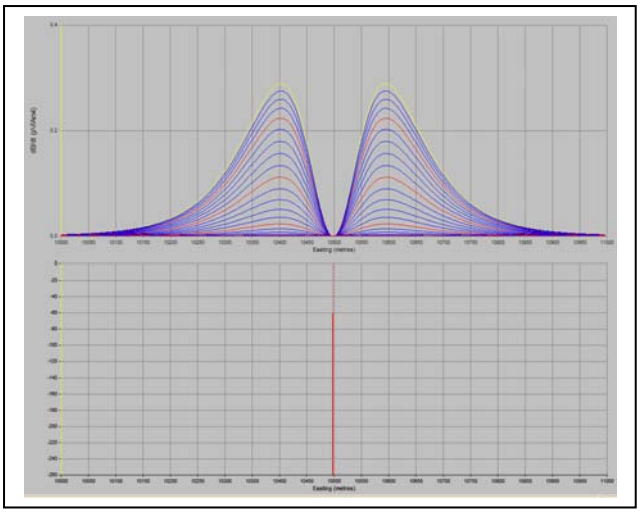

Figure A-1: dB/dt response of a shallow vertical thin plate. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

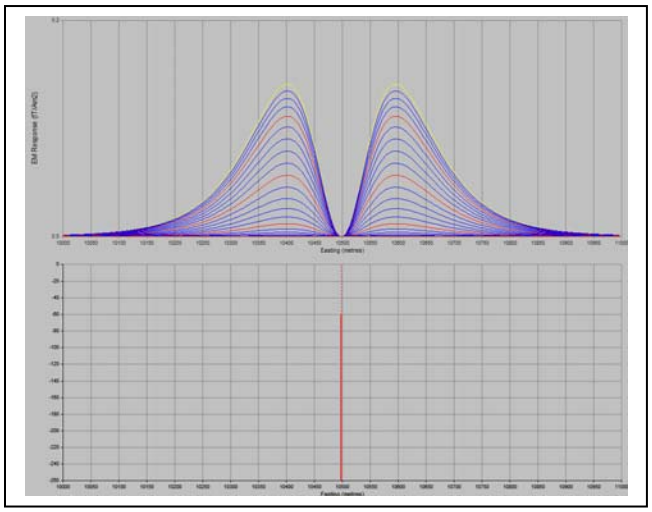

Figure A-2: B-field response of a shallow vertical thin plate. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment.

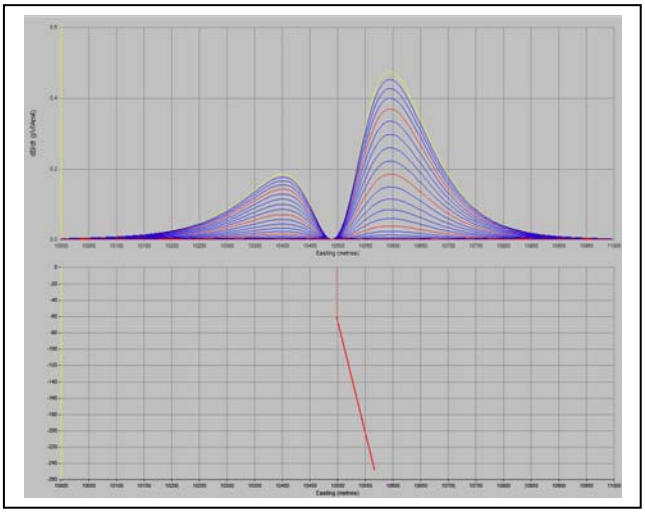

Figure A-3: dB/dt response of a shallow skewed thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

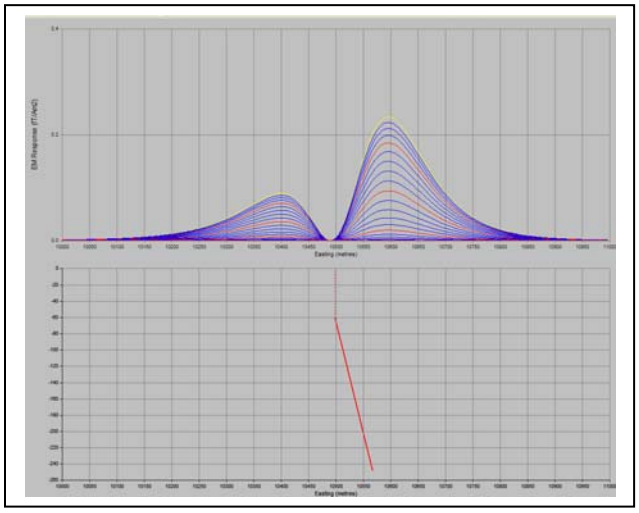

Figure A-4: B-field response of a shallow skewed thin plate. Depth=100 m, CT=20 S.The EM response is normalized by the dipole moment.

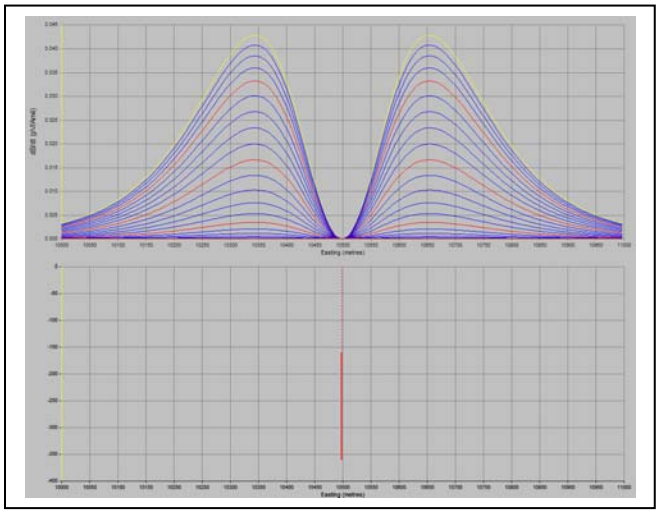

Figure A-5: dB/dt response of a deep vertical thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

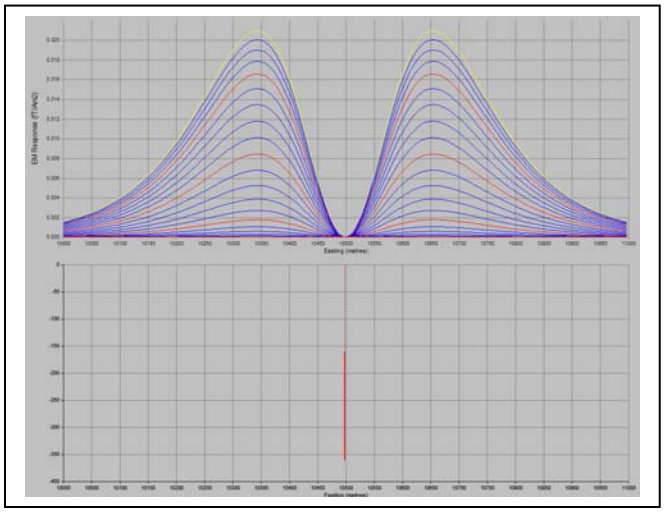

Figure A-6: B-Field response of a deep vertical thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment.

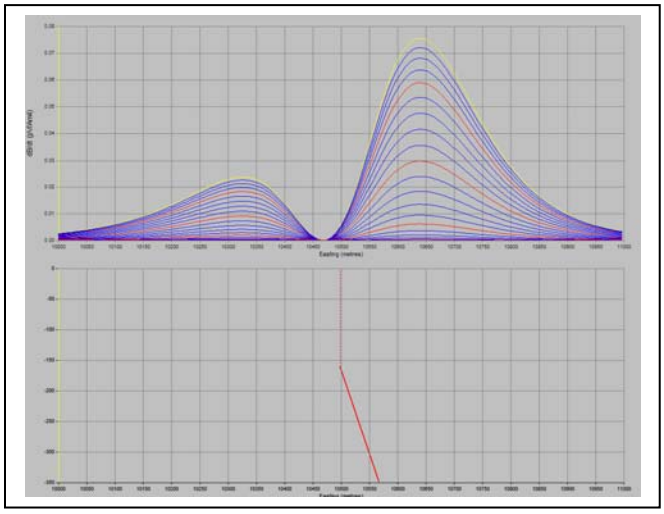

Figure A-7: dB/dt response of a deep skewed thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

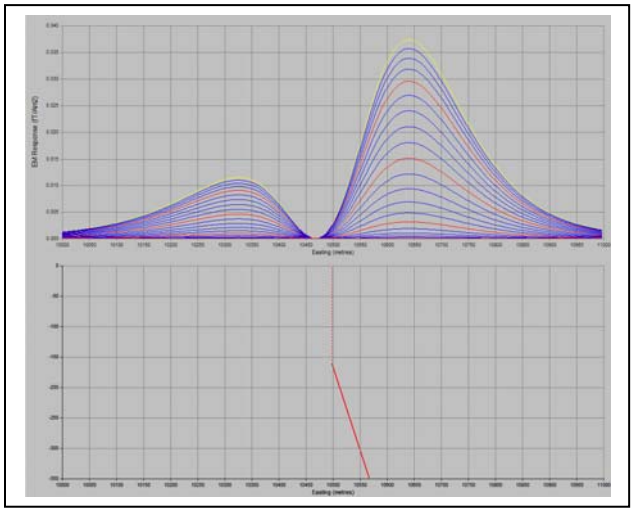

Figure A-8: B-field response of a deep skewed thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment.

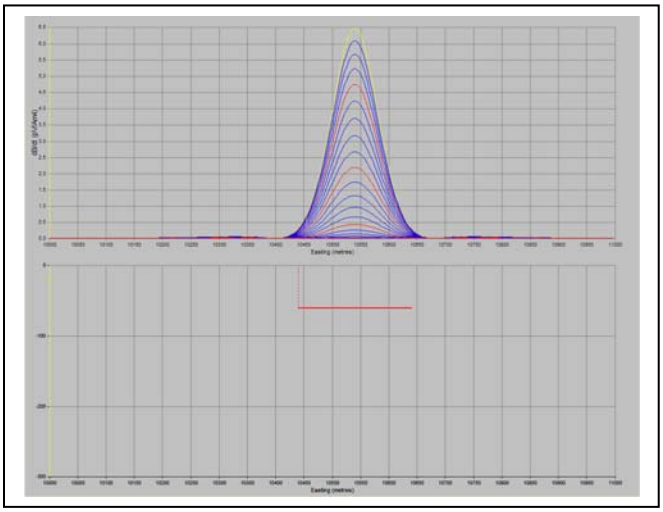

Figure A-9: dB/dt response of a shallow horizontal thin plate. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

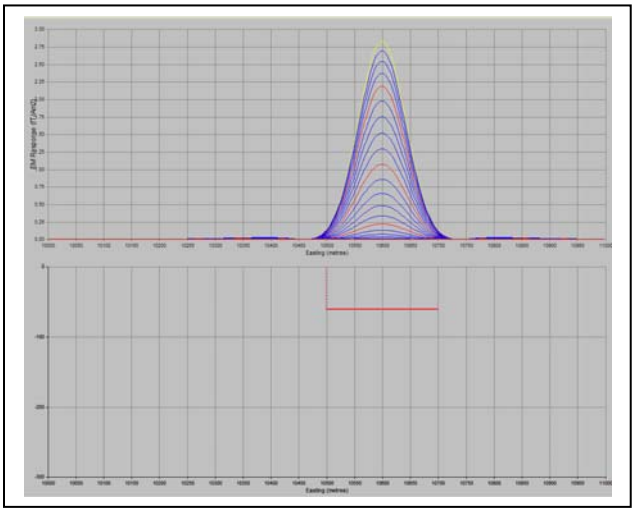

Figure A-10: B-Field response of a shallow horizontal thin plate. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment.

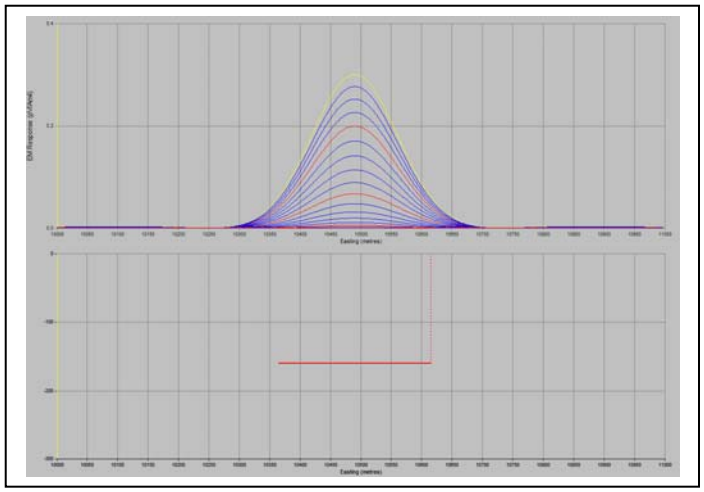

Figure A-11: dB/dt response of a deep horizontal thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

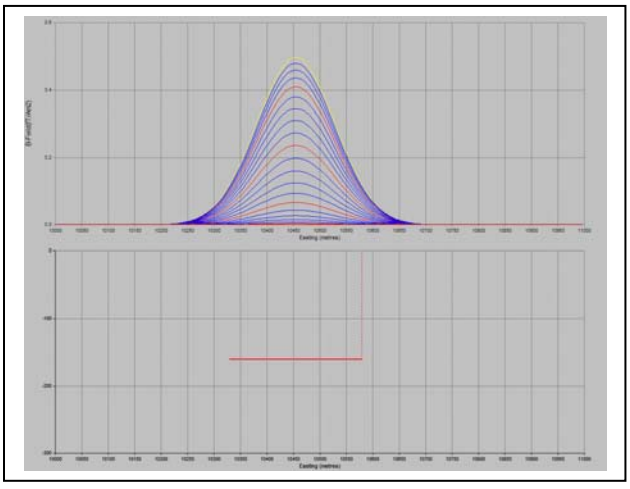

Figure A-12: B-Field response of a deep horizontal thin plate. Depth=200 m, CT=20 S. The EM response is normalized by the dipole moment.

II. THICK PLATE

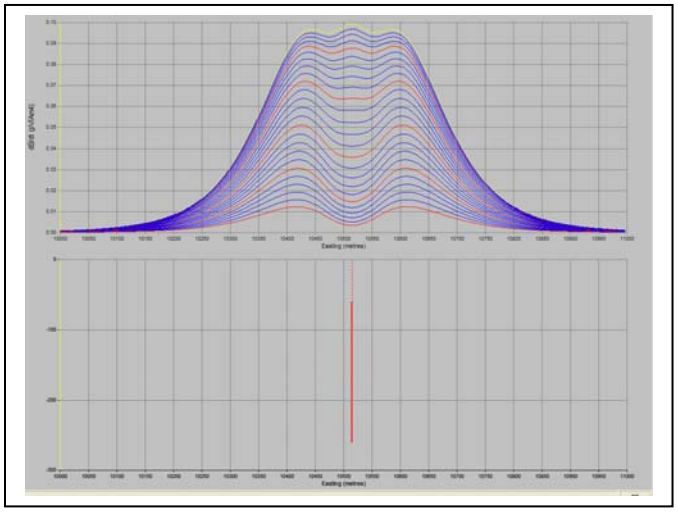

Figure A-13: dB/dt response of a shallow vertical thick plate. Depth=100 m, C=12 S/m, thickness=20 m. The EM response is normalized by the dipole moment and the Rx area.

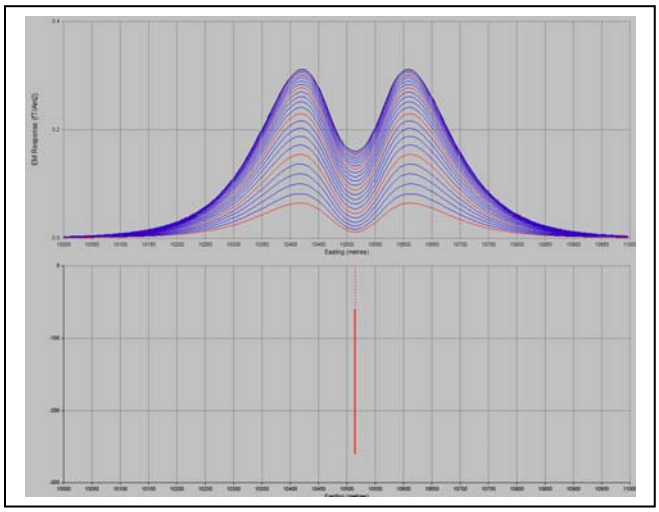

Figure A-14: B-Field response of a shallow vertical thick plate. Depth=100 m, C=12 S/m, thickness= 20 m. The EM response is normalized by the dipole moment.

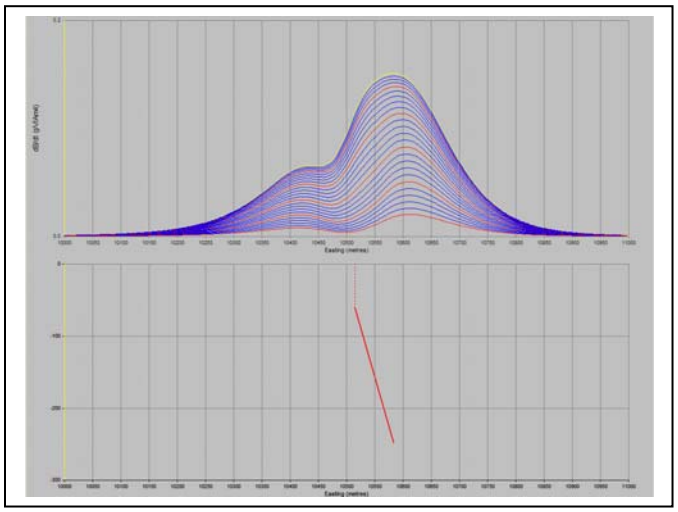

Figure A-15: dB/dt response of a shallow skewed thick plate. Depth=100 m, C=12 S/m, thickness=20 m. The EM response is normalized by the dipole moment and the Rx area.

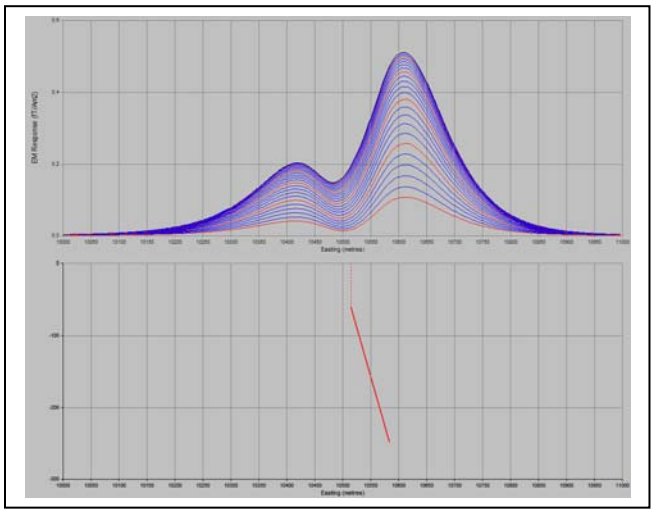

Figure A-16: B-Field response of a shallow skewed thick plate. Depth=100 m, C=12 S/m, thickness=20 m. The EM response is normalized by the dipole moment.

III. MULTIPLE THIN PLATES

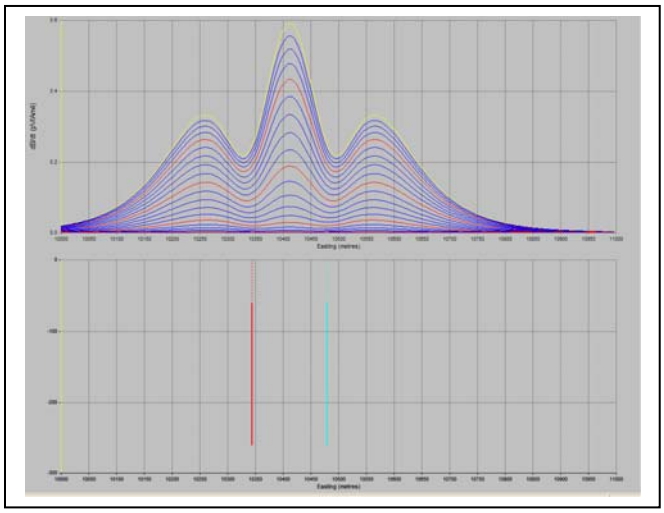

Figure A-17: dB/dt response of two vertical thin plates. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment and the Rx area.

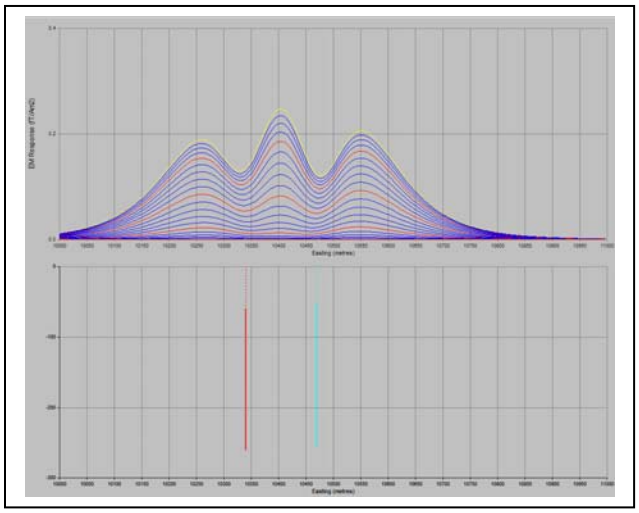

Figure A-18: B-Field response of two vertical thin plates. Depth=100 m, CT=20 S. The EM response is normalized by the dipole moment.

GEOTECH LTD.

Survey Specifications:
Dates Flown: September 03-September 07, 2007
Survey Base: Whitehorse, YT
Aircraft: Astar B3 helicopter, Registration C-GTFX
Nominal Flight Line Spacing: 100 metres
Nominal Flight Line Directions: N90°E/N270°W
Nominal Tie Line Spacing: 1000 metres
Nominal Tie Line Directions: N0°E/N180°W
Nominal helicopter terrain clearance 125 metres
EM Loop is 35 metres under helicopter
Magnetic sensor is 15 metres under helicopter

Instruments:
Geotech Time Domain Electromagnetic System (VTEM)
with concentric Rx/Tx geometry
Transmitter Loop Diameter 26 m, Base Frequency 30 Hz
Dipole Moment 424,400 NIA
Transmitter Wave Form: Trapezoid, Pulse Width 7.22 ms
Geometrics Optically-pumped,
High Sensitivity Cesium Magnetometer
Magnetometer Resolution 0.02 nT at 10 samples/sec

Anomaly Symbols

- Conductance < 5.0 siemens
- 5.0 < Conductance < 10.0
- 10.0 < Conductance < 15.0
- 15.0 < Conductance < 20.0
- 20.0 < Conductance

Anomaly ID — Conductance (S)
Depth (m) — Tau (ms)
Dip (°)

dB/dt Channel
pV/(A*m^4)

Legend:
Roads
Lakes, Rivers
Swamps
Topographic contours

Scale 1:10000
100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System

EM picked anomalies & late Time dB/dt channel (6.578 ms)

Flown and processed by Geotech Ltd.
245 Industrial Parkway North
Aurora, Ontario, Canada
www.geotech.ca

February 2008

Project 7067

GEOTECH LTD.

Survey Specifications:
Dates Flown: September 03-September 07, 2007
Survey Base: Whitehorse, YT
Aircraft: Astar B3 helicopter, Registration C-GTFX
Nominal Flight Line Spacing: 100 metres
Nominal Flight Line Directions: N90°E/N270°W
Nominal Tie Line Spacing: 1000 metres
Nominal Tie Line Directions: N0°E/N180°W
Nominal helicopter terrain clearance 125 metres
EM Loop is 35 metres under helicopter
Magnetic sensor is 15 metres under helicopter

Instruments:
Geotech Time Domain Electromagnetic System (VTEM)
with concentric Rx/Tx geometry
Transmitter Loop Diameter 26 m, Base Frequency 30 Hz
Dipole Moment 424,400 NIA
Transmitter Wave Form: Trapezoid, Pulse Width 7.22 ms
Geometrics Optically-pumped,
High Sensitivity Cesium Magnetometer
Magnetometer Resolution 0.02 nT at 10 samples/sec

Anomaly Symbols

Conductance < 5.0 siemens
5.0 < Conductance < 10.0
10.0 < Conductance < 15.0
15.0 < Conductance < 20.0
20.0 < Conductance

Anomaly ID — Conductance (S)
Depth (m) — Tau (ms)
Dip (°)

B-Field Channel
fT/(A*m^2)

Legend:
Roads
Lakes, Rivers
Swamps
Topographic contours

Scale 1:10000
100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
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Anomaly Symbols

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- 5.0 < Conductance < 10.0
- 10.0 < Conductance < 15.0
- 15.0 < Conductance < 20.0
- 20.0 < Conductance

Anomaly ID — Conductance (S)
Depth (m) — Tau (ms)
Dip (°)

9.769
1.619
1.360
1.184
1.028
0.922
0.828
0.745
0.668
0.596
0.529
0.465
0.392
0.333
0.277
0.221
0.167
0.113
0.060
0.007
-0.057
-0.110
-0.163
-0.217
-0.270
-0.327
-0.383
-0.442
-0.515
-0.579
-0.646
-0.718
-0.795
-0.878
-0.972
-1.078
-1.234
-1.410
-1.669
-4.199

Vertical Gradient
nT/m

Legend:
Roads
Lakes, Rivers
Swamps
Topographic contours

Scale 1:10000
100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System
Vertical gradient of TMI

Flown and processed by Geotech Ltd.
245 Industrial Parkway North
Aurora, Ontario, Canada
www.geotech.ca

February 2008

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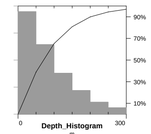
Euler Solutions

Depth (m)
- > 400
- 300 - 400
- 200 - 300
- 100 - 200
- < 100



TG nT/m
9.276
1.574
1.136
0.909
0.749
0.597
0.485
0.404
0.343
0.286
0.235
0.203
0.162
0.013

EM Anomaly Symbols

- Conductance < 5.0 siemens
- 5.0 < Conductance < 10.0
- 10.0 < Conductance < 15.0
- 15.0 < Conductance < 20.0
- 20.0 < Conductance

Anomaly ID — Conductance (S)
Depth (m) — Tau (ms)
Dip (°)

LEGEND

- geological contact
- Faults
- Streams
- Topographic contour
- Contact / boundary inferred from magnetic data
- Fault inferred from magnetic data

uTH silstone, conglomerate, limestone, marble, skarn

mJM3 pillowed basalts, dabase, pillows

mJM2 volcanoclastics and volcano-sediments

mTJM pillowed basalts with some pyrite-Qz-Calcite

Scale 1:10000
100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System
INTERPRETATION MAP

Flown and processed by Geotech Ltd.
245 Industrial Parkway North
Aurora, Ontario, Canada
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February 2008

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- 20.0 < Conductance

Anomaly ID — Conductance (S)
Depth (m) — Tau (ms)
Dip (°)

0.974 ms Channel
pV/(A*m^4)
0.0191
0.0102
0.0070
0.0051
0.0040
0.0030
0.0021
0.0015
0.0010
0.0007
0.0005
0.0004
0.0002
0.0001
0.0001
-0.0000
-0.0001
-0.0001
-0.0002
-0.0002
-0.0003
-0.0003
-0.0004
-0.0004
-0.0005
-0.0005
-0.0006
-0.0006
-0.0007
-0.0007
-0.0008
-0.0008
-0.0009
-0.0010
-0.0011
-0.0012
-0.0014
-0.0017

Legend:
Roads
Lakes, Rivers
Swamps
Topographic contours

Scale 1:10000
100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

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B-Field
fT/(A*m^2)

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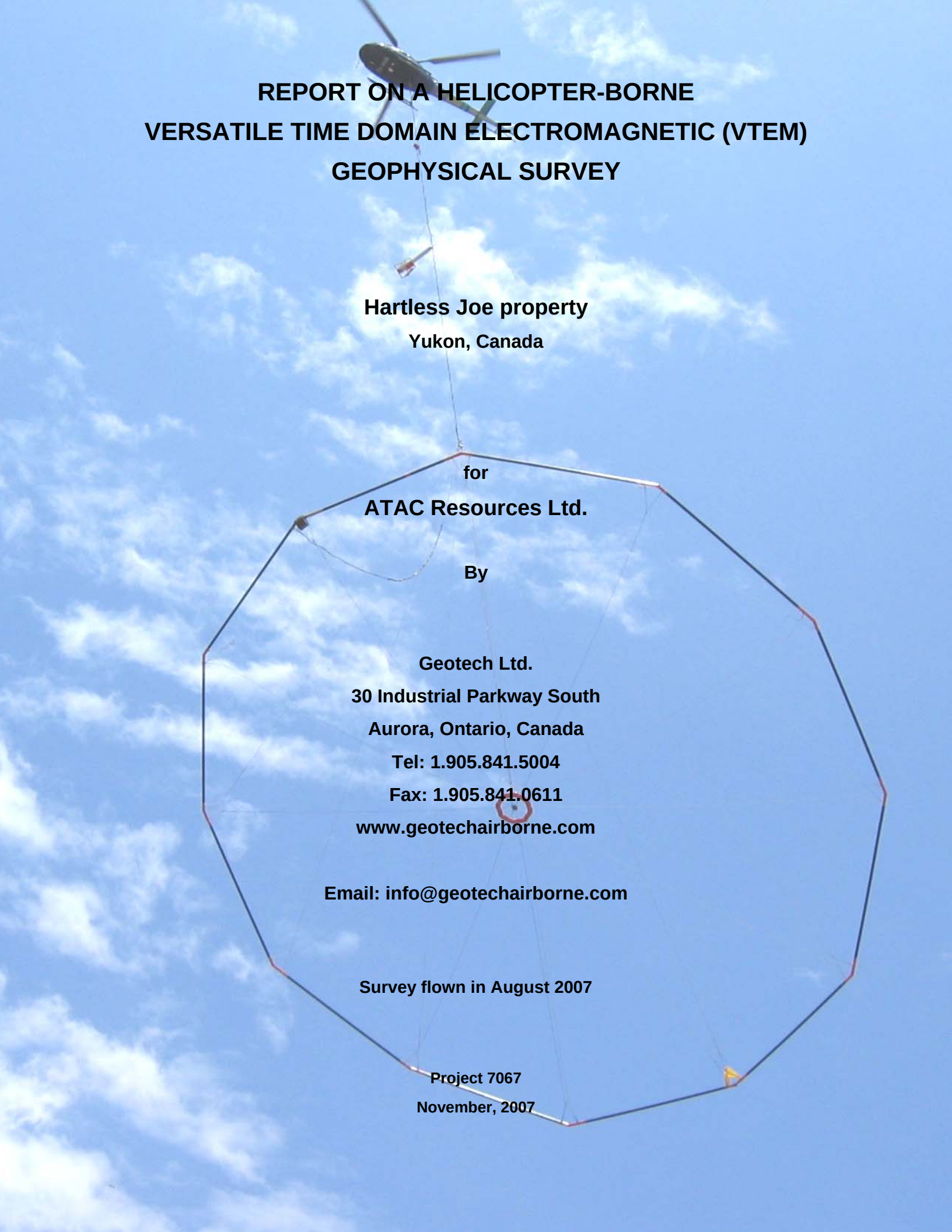
Project 7067



REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM) GEOPHYSICAL SURVEY

Hartless Joe property

Yukon, Canada

for

ATAC Resources Ltd.

By

Geotech Ltd.

30 Industrial Parkway South

Aurora, Ontario, Canada

Tel: 1.905.841.5004

Fax: 1.905.841.0611

www.geotechairborne.com

Email: info@geotechairborne.com

Survey flown in August 2007

Project 7067

November, 2007

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REPORT ON A HELICOPTER-BORNE
VERSATILE TIME DOMAIN ELECTROMAGNETIC SURVEY

Hartless Joe property, Yukon, Canada

Executive Summary

This report describes the Helicopter-borne geophysical survey carried out on behalf of ATAC Resources Ltd. by Geotech Ltd. over one block in Yukon, Canada.

Principal geophysical sensors included a versatile time domain electromagnetic (VTEM) system and a cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 159.90 line-km were flown.

In-field data processing involved quality control and compilation of data collected during the acquisition stage, using the in-field processing centre established in Whitehorse, Yukon. Preliminary and final data processing, including generation of final digital data products were done at the office of Geotech Ltd. in Aurora, Ontario.

The processed survey results are presented as electromagnetic stacked profiles and total magnetic intensity grid.

Digital data includes all electromagnetic and magnetic products plus positional, altitude and raw data.

1. INTRODUCTION

1.1 General Considerations

These services are the result of the Agreement made between Geotech Ltd. and Archer Cathro & Associates (1981) Limited to perform a helicopter-borne geophysical survey over one block located in Yukon, Canada.

159.90 line-km of geophysical data were acquired during the survey.

Bill Wengzynowski acted on behalf of ATAC Resources Ltd. during data acquisition and data processing phases of this project.

The survey block is as shown in Appendix A.

The crew was based in Whitehorse, Yukon for the acquisition phase of the survey, as shown in Section 2 of this report.

The helicopter was based at the Whitehorse, airport for the duration of the survey. Survey flying was completed on September 7th, 2007. Preliminary data processing was carried out daily during the acquisition phase of the project. Final data presentation and data archiving was completed in the Aurora office of Geotech Ltd. in November, 2007.

1.2. Survey and System Specifications

The survey block was flown at nominal traverse line spacing of 100 metres, at N90°E / N270°W direction. Tie lines were flown perpendicular to traverse lines.

Where possible, the helicopter maintained a mean terrain clearance of 125 metres, which translated into an average height of 90 metres above ground for the bird-mounted VTEM system and 110 metres for the magnetic sensor.

The survey was flown using an Astar B3 helicopter, registration C-GTFX. The helicopter was operated by TRK helicopters. Details of the survey specifications may be found in Section 2 of this report.

1.3. Data Processing and Final Products

Data compilation and processing were carried out by the application of Geosoft OASIS Montaj and programs proprietary to Geotech Ltd.

A database, grids and maps of final products were presented to ATAC Resources Ltd.

The survey report describes the procedures for data acquisition, processing, final image presentation and the specifications for the digital data set.

1.4. Topographic Relief and cultural features

The survey block is located in Yukon, approximately 28 kilometers north-east of the town of Whitehorse.

Topographically, the survey area exhibits a mountainous terrain, with elevation range from 1520 metres to 1850 metres above sea level.

2. DATA ACQUISITION

2.1. Survey Area

The survey block (see location map, Appendix A) and general flight specifications are as follows:

Survey block	Line spacing (m)	Area (Km2)	Line-km	Flight direction	Line number
HARTLESS JOE	100	14.07	142.3	N90°E / N270°W	L13010 - L13430
	1000		15.3	N0°E / N180°W	T13910 - T13940

Table 1 - Survey block

Survey block boundaries co-ordinates are provided in Appendix B.

2.2. Survey Operations

Survey operations were based in Whitehorse, Yukon for the acquisition phase of the survey.

The following table shows the timing of the flying.

Date	Flight #	Flown KM	Block	Crew Location	Comments
3-Sept-07	81	144.8	HARTLESS JOE	Whitehorse, Yukon	Production
4-Sept-07			HARTLESS JOE	Whitehorse, Yukon	No production – due to weather
5-Sept-07			HARTLESS JOE	Whitehorse, Yukon	No production – due to weather
6-Sept-07			HARTLESS JOE	Whitehorse, Yukon	No production – due to weather
7-Sept-07	82, 83	15.1	HARTLESS JOE	Whitehorse, Yukon	Production, block complete

Table 2 - Survey schedule

2.3. Flight Specifications

The nominal EM sensor terrain clearance was 90 m (EM bird height above ground, i.e. helicopter is maintained 125 m above ground) due to rough terrain and helicopter crew safety. Nominal survey speed was 80 km/hour. The data recording rates of the data acquisition was 0.1 second for electromagnetics and magnetometer, 0.2 second for altimeter and GPS. This translates to a geophysical reading about every 2 metres along flight track. Navigation was assisted by a GPS receiver and data acquisition system, which reports GPS co-ordinates as latitude/longitude and directs the pilot over a pre-programmed survey grid.

The operator was responsible for monitoring of the system integrity. He also maintained a detailed flight log during the survey, tracking the times of the flight as well as any unusual geophysical or topographic feature.

On return of the aircrew to the base the survey data was transferred from a compact flash card (PCMCIA) to the data processing computer.

2.4. Aircraft and Equipment

2.4.1. Survey Aircraft

An Astar B3 helicopter, registration C-GTFX - owned and operated by TRK Helicopters Ltd. - was used for the survey. Installation of the geophysical and ancillary equipment was carried out by Geotech Ltd.

2.4.2. Electromagnetic System

The electromagnetic system was a Geotech Time Domain EM (VTEM) system. The configuration is as indicated in Figure 1 below.

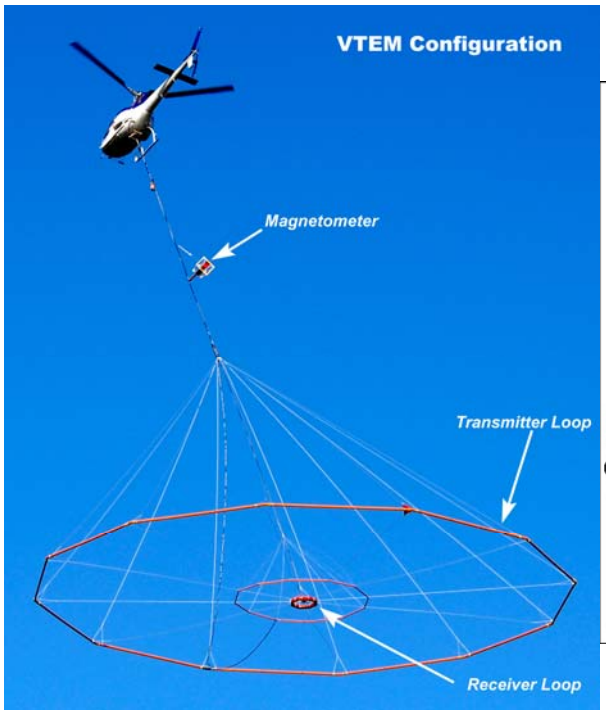


Figure 1 – VTEM configuration

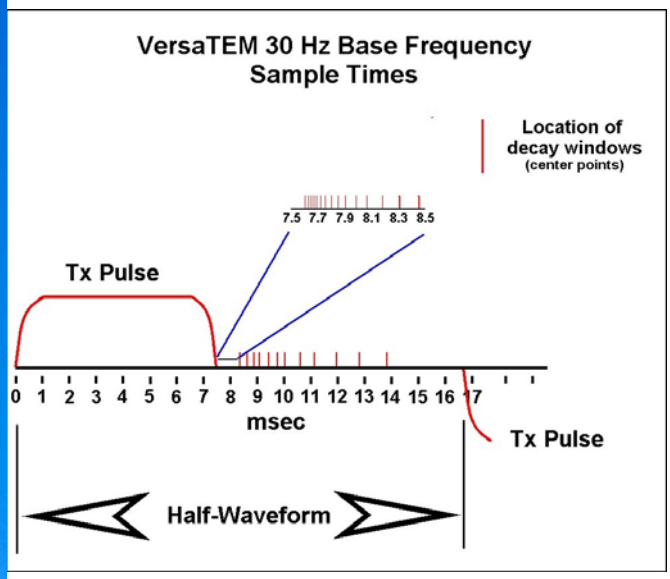


Figure 2 – Sample times

Receiver and transmitter coils are concentric and Z-direction oriented.
The receiver decay recording scheme is shown diagrammatically in Figure 2.

Twenty-four measurement gates were used in the range from 120 μs to 6578 μs, as shown in Table 3.

VTEM Decay Sampling scheme				
Array Index	(Microseconds)			
	Time Gate	Start	End	Width
10	120	110	131	21
11	141	131	154	24
12	167	154	183	29
13	198	183	216	34
14	234	216	258	42
15	281	258	310	53
16	339	310	373	63
17	406	373	445	73
18	484	445	529	84
19	573	529	628	99
20	682	628	750	123
21	818	750	896	146
22	974	896	1063	167
23	1151	1063	1261	198
24	1370	1261	1506	245
25	1641	1506	1797	292
26	1953	1797	2130	333
27	2307	2130	2526	396
28	2745	2526	3016	490
29	3286	3016	3599	583
30	3911	3599	4266	667
31	4620	4266	5058	792
32	5495	5058	6037	979
33	6578	6037	7203	1167

Table 3 - VTEM decay sampling scheme

Transmitter coil diameter was 26 metres, the number of turns was 4.
Transmitter pulse repetition rate was 30 Hz.
Peak current was 192 Amp.
Pulse width was 7.2 ms
Duty cycle was 43%.
Peak dipole moment was 424,400 NIA.

Receiver coil diameter was 1.2 metre, the number of turns was 100.
Receiver effective area was 113.1 m^2
Wave form – trapezoid.
Recording sampling rate was 10 samples per second.

The EM bird was towed 42 m below the helicopter.

2.4.3. Airborne magnetometer

The magnetic sensor utilized for the survey was a Geometrics optically pumped cesium vapour magnetic field sensor, mounted in a separated bird, towed 15 metres below the helicopter, as shown on figure 1. The sensitivity of the magnetic sensor is 0.02 nanoTesla (nT) at a sampling interval of 0.1 seconds. The magnetometer sends the measured magnetic field strength as nanoTeslas to the data acquisition system via the RS-232 port.

2.4.4. Ancillary Systems

2.4.4.1. Radar Altimeter

A Terra TRA 3000/TRI 40 radar altimeter was used to record terrain clearance. The antenna was mounted beneath the bubble of the helicopter cockpit.

2.4.4.2. GPS Navigation System

The navigation system used was a Geotech PC based navigation system utilizing a NovAtel's WAAS enable OEM4-G2-3151W GPS receiver, Geotech navigate software, a full screen display with controls in front of the pilot to direct the flight and an NovAtel GPS antenna mounted on the helicopter tail.
The co-ordinates of the block were set-up prior to the survey and the information was fed into the airborne navigation system.

2.4.4.3. Digital Acquisition System

A Geotech data acquisition system recorded the digital survey data on an internal compact flash card. Data is displayed on an LCD screen as traces to allow the operator to monitor the integrity of the system. The data type and sampling interval as provided in table 4.

DATA TYPE	SAMPLING
TDEM	0.1 sec
Magnetometer	0.1 sec
GPS Position	0.2 sec
Radar Altimeter	0.2 sec

Table 4 - Sampling Rates

2.4.5. Base Station

A combine magnetometer/GPS base station was utilized on this project. A Geometrics Cesium vapour magnetometer was used as a magnetic sensor with a sensitivity of 0.001 nT. The base station was recording the magnetic field together with the GPS time at 1 Hz on a base station computer.

The base station magnetometer sensor was installed 100 metres from the airport in Whitehorse, away from electric transmission lines and moving ferrous objects such as motor vehicles.

The magnetometer base station's data was backed-up to the data processing computer at the end of each survey day.

3. PERSONNEL

The following Geotech Ltd. personnel were involved in the project:

Field

Project Manager:	Harish Kumar
Operator:	Paul Taylor
Crew chief / QC Geophysicist:	Keith Lavalley

The survey pilot and the mechanic engineer were employed directly by the helicopter operator – TRK Helicopters Ltd.

Pilot:	Roy Stevenson
	Randy Marks
Engineer:	Chris Ward

Office

Data Processing / Reporting:	George Lev
Data Technician:	Maria Jagodkin

Data acquisition and processing phases were carried out under the supervision of Andrei Bagrianski, Surveys Manager. Overall management of the project was undertaken by Edward Morrison, President, Geotech Ltd.

4. DATA PROCESSING AND PRESENTATION

4.1. Flight Path

The flight path, recorded by the acquisition program as WGS 84 latitude/longitude, was converted into the UTM coordinate system in Oasis Montaj.

The flight path was drawn using linear interpolation between x, y positions from the navigation system. Positions are updated every second and expressed as UTM eastings (x) and UTM northings (y).

4.2. Electromagnetic Data

A three stage digital filtering process was used to reject major sferic events and to reduce system noise. Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events. The filter used was a 16 point non-linear filter.

The signal to noise ratio was further improved by the application of a low pass linear digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 1 second or 20 metres. This filter is a symmetrical 1 sec linear filter.

The results are presented as stacked profiles of EM voltages for the time gates, in linear - logarithmic scale for both B-field and dB/dt response.

Generalized modeling results of the VTEM system, written by Geophysicist Roger Barlow, are shown in Appendix C.

Graphical representation of the VTEM output voltage of the receiver coil and the transmitter current is shown in Appendix D.

4.3. Magnetic Data

The processing of the magnetic data involved the correction for diurnal variations by using the digitally recorded ground base station magnetic values. The base station magnetometer data was edited and merged into the Geosoft GDB database on a daily basis. The aeromagnetic data was corrected for diurnal variations by subtracting the observed magnetic base station deviations.

A micro-levelling procedure was applied to remove persistent low-amplitude components of flight-line noise remaining in the data. Where Tie lines were available, Tie line levelling was carried out by adjusting intersection points along the traverse lines.

The corrected magnetic data was interpolated between survey lines using a random point gridding method to yield x-y grid values for a standard grid cell size of approximately 0.1 cm at the mapping scale. The Minimum Curvature algorithm was used to interpolate values onto a rectangular regular spaced grid.

Due to a very rugged topography, the helicopter could not maintain a constant terrain clearance. Thus, significant altitude differences occurred in adjacent lines and resulted in variations of the geophysical data. Efforts were made to level the geophysical signal as much as possible, but in several cases levelling would have been meaningless as it would create an artificial signal not relevant to real situation.

5. DELIVERABLES

5.1. Survey Report

The survey report describes the data acquisition, processing, and final presentation of the survey results.

The survey report is provided in two paper copies and digitally in PDF format.

5.2. Maps

Final maps were produced at a scale of 1:10,000. The coordinate/projection system used was the WGS84, UTM zone 8N. All maps show the flight path trace and topographic data. Latitude and longitude are also noted on maps.

The following maps are presented on paper,

- dB/dt profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale
- B-field profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale
- Total Magnetic intensity contours and colour image

5.3. Digital Data

Two copies of DVDs were prepared.

There are two (2) main directories,

Data contains a database, grids and maps, as described below.

Report contains a copy of the report and appendices in PDF format.

a kmz file containing flightpath of the HARTLESS JOE property.
A free version of Google Earth software can be downloaded from,
http://earth.google.com/download-earth.html

- Database in Geosoft GDB format, containing the following channels:

Lines:	Line number
X:	X positional data (metres – WGS84, utm zone 8 north)
Y:	Y positional data (metres – WGS84, utm zone 8 north)
Z:	GPS antenna elevation (metres - ASL)
Radar:	Helicopter terrain clearance from radar altimeter (metres - AGL)
Radarb:	EM Loop terrain clearance (metres – AGL)
DEM:	Digital elevation model (metres)
Gtime1:	GPS time (seconds of the day)
Mag1:	Raw Total Magnetic field data (nT)
Basemag:	Magnetic diurnal variation data (nT)
Mag2:	Total Magnetic field diurnal variation corrected data (nT)
Mag3:	Leveled Total Magnetic field data (nT)
SF[10]:	dB/dt 120 microsecond time channel (pV/A/m^4)
SF[11]:	dB/dt 141 microsecond time channel (pV/A/m^4)
SF[12]:	dB/dt 167 microsecond time channel (pV/A/m^4)
SF[13]:	dB/dt 198 microsecond time channel (pV/A/m^4)
SF[14]:	dB/dt 234 microsecond time channel (pV/A/m^4)
SF[15]:	dB/dt 281 microsecond time channel (pV/A/m^4)
SF[16]:	dB/dt 339 microsecond time channel (pV/A/m^4)
SF[17]:	dB/dt 406 microsecond time channel (pV/A/m^4)
SF[18]:	dB/dt 484 microsecond time channel (pV/A/m^4)
SF[19]:	dB/dt 573 microsecond time channel (pV/A/m^4)
SF[20]:	dB/dt 682 microsecond time channel (pV/A/m^4)
SF[21]:	dB/dt 818 microsecond time channel (pV/A/m^4)
SF[22]:	dB/dt 974 microsecond time channel (pV/A/m^4)
SF[23]:	dB/dt 1151 microsecond time channel (pV/A/m^4)
SF[24]:	dB/dt 1370 microsecond time channel (pV/A/m^4)
SF[25]:	dB/dt 1641 microsecond time channel (pV/A/m^4)
SF[26]:	dB/dt 1953 microsecond time channel (pV/A/m^4)
SF[27]:	dB/dt 2307 microsecond time channel (pV/A/m^4)
SF[28]:	dB/dt 159.90 5 microsecond time channel (pV/A/m^4)
SF[29]:	dB/dt 3286 microsecond time channel (pV/A/m^4)
SF[30]:	dB/dt 3911 microsecond time channel (pV/A/m^4)
SF[31]:	dB/dt 4620 microsecond time channel (pV/A/m^4)
SF[32]:	dB/dt 5495 microsecond time channel (pV/A/m^4)
SF[33]:	dB/dt 6578 microsecond time channel (pV/A/m^4)
BF[10]:	B-field 120 microsecond time channel (pV*ms)/(A*m^4)
BF[11]:	B-field 141 microsecond time channel (pV*ms)/(A*m^4)
BF[12]:	B-field 167 microsecond time channel (pV*ms)/(A*m^4)
BF[13]:	B-field 198 microsecond time channel(pV*ms)/(A*m^4)
BF[14]:	B-field 234 microsecond time channel (pV*ms)/(A*m^4)

BF[15]: B-field 281 microsecond time channel (pV*ms)/(A*m^4)
BF[16]: B-field 339 microsecond time channel (pV*ms)/(A*m^4)
BF[17]: B-field 406 microsecond time channel (pV*ms)/(A*m^4)
BF[18]: B-field 484 microsecond time channel (pV*ms)/(A*m^4)
BF[19]: B-field 573 microsecond time channel (pV*ms)/(A*m^4)
BF[20]: B-field 682 microsecond time channel (pV*ms)/(A*m^4)
BF[21]: B-field 818 microsecond time channel (pV*ms)/(A*m^4)
BF[22]: B-field 974 microsecond time channel (pV*ms)/(A*m^4)
BF[23]: B-field 1151 microsecond time channel (pV*ms)/(A*m^4)
BF[24]: B-field 1370 microsecond time channel (pV*ms)/(A*m^4)
BF[25]: B-field 1641 microsecond time channel (pV*ms)/(A*m^4)
BF[26]: B-field 1953 microsecond time channel (pV*ms)/(A*m^4)
BF[27]: B-field 2307 microsecond time channel (pV*ms)/(A*m^4)
BF[28]: B-field 2745 microsecond time channel (pV*ms)/(A*m^4)
BF[29]: B-field 3286 microsecond time channel (pV*ms)/(A*m^4)
BF[30]: B-field 3911 microsecond time channel (pV*ms)/(A*m^4)
BF[31]: B-field 4620 microsecond time channel (pV*ms)/(A*m^4)
BF[32]: B-field 5495 microsecond time channel (pV*ms)/(A*m^4)
BF[33]: B-field 6578 microsecond time channel (pV*ms)/(A*m^4)
PLM: Power line monitor

Electromagnetic B-field and dB/dt data is found in array channel format between indexes 10 – 33, as described above.

- Database 7067Hartless_wform.gdb in Geosoft GDB format, containing the following channels:

  Time: Sampling rate interval, 10.416 microseconds
  Volt: output voltage of the receiver coil (volt)

- Grids in Geosoft GRD format, as follow,

  Hartless_magfin: Total magnetic intensity (nT)
  Hartless_DEM: Digital elevation model (m)

  A Geosoft .GRD file has a .GI metadata file associated with it, containing grid projection information.
  Grid cell size of 10 meters was used.

- Maps at 1:10,000 scale in Geosoft MAP format, as follow,

  Hartless_Magfin: Total magnetic intensity contours and colour image
  Hartless_dBdt: VTEM dB/dt profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale
  Hartless_EMLP: VTEM B-field profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale

- A *readme.txt* file describing the content of digital data, as described above.

6. CONCLUSIONS

A helicopter-borne versatile time domain electromagnetic (VTEM) geophysical survey has been completed over the Hartless Joe property, located in Yukon, Canada.

The total area coverage is 14.07 km^2. Total survey line coverage is 159.90 line kilometres. The principal sensors included a Time Domain EM system and a magnetometer. Results have been presented as stacked profiles and contour colour images at a scale of 1:10,000.

Final data processing at the office of Geotech Ltd. in Aurora, Ontario was carried out under the supervision of Andrei Bagrianski, Surveys Manager.

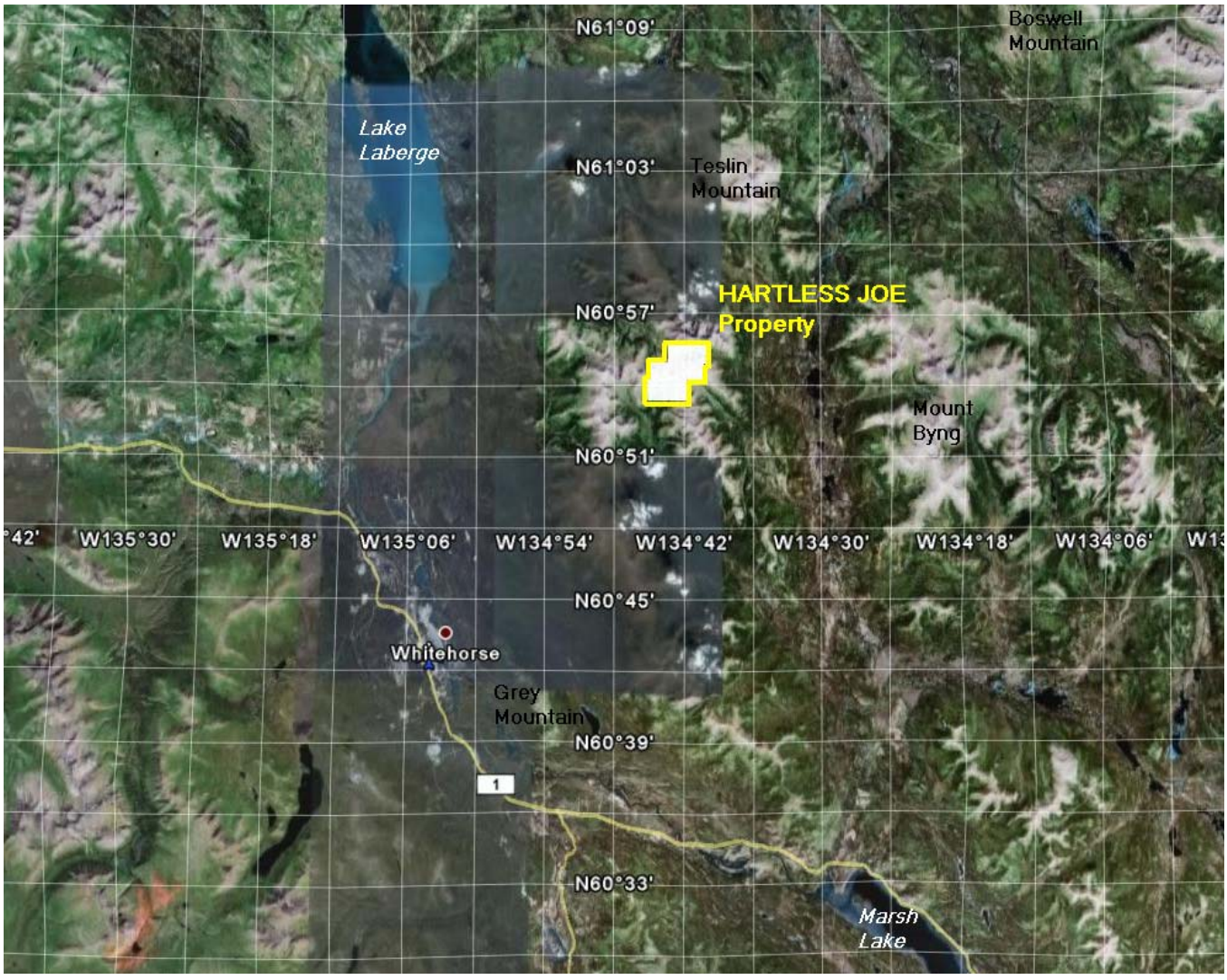
A number of EM anomaly groupings were identified. Ground follow-up of those anomalies should be carried out if favourably supported by other geoscientific data.

Respectfully submitted,

George Lev
Geotech Ltd.
November, 2007

APPENDIX A

SURVEY BLOCK LOCATION MAP



APPENDIX B

SURVEY BLOCK COORDINATES
(WGS 84, UTM zone 9 north)

HARTLESS JOE Property

Easting	Northing
x	y
517772	6754691
517772	6752090
516222	6752090
516222	6750490
513643	6750490
513643	6753361
515244	6753361
515244	6754691

APPENDIX C

MODELING VTEM DATA

MODELING VTEM DATA

Introduction

The VTEM system is based on a concentric or central loop design, whereby, the receiver is positioned at the centre of a 26.1 meters diameter transmitter loop that produces a dipole moment up to 625,000 NIA at peak current. The wave form is a bi-polar, modified square wave with a turn-on and turn-off at each end. With a base frequency of 30 Hz, the duration of each pulse is approximately 7.5 milliseconds followed by an off time where no primary field is present.

During turn-on and turn-off, a time varying field is produced (dB/dt) and an electro-motive force (emf) is created as a finite impulse response. A current ring around the transmitter loop moves outward and downward as time progresses. When conductive rocks and mineralization are encountered, a secondary field is created by mutual induction and measured by the receiver at the centre of the transmitter loop.

Measurements are made during the off-time, when only the secondary field (representing the conductive targets encountered in the ground) is present.

Late in 2006, Geotech Ltd. incorporated a B-Field measurement in the VTEM system. The B-Field measurements have the advantage of containing more spectral energy at low spectral frequencies than the dB/dt measurements; hence, greater amplitudes and accuracies when encountering targets with higher conductances (> 500 Siemens). The converse is true at higher spectral frequencies where dB/dt measurements are best applied. The B-field is most widely used in nickel exploration where a small percentage of targets are extremely conductive (> 2500 Siemens) and less resolvable or invisible (below the noise threshold) using dB/dt measurements.

Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

Variation of Plate Depth

Geometries represented by plates of different strike length, depth extent, dip, plunge and depth below surface can be varied with characteristic parameters like conductance of the target, conductance of the host and conductivity/thickness and thickness of the overburden layer.

Diagrammatic models for a vertical plate are shown in figures A and G at two different depths, all other parameters remaining constant. With this transmitter-receiver geometry, the classic **M** shaped response is generated. Figure A shows a plate where the top is near surface. Here, amplitudes of the duel peaks are higher and symmetrical with the zero centre positioned directly above the plate. Most important is the separation distance of the peaks. This distance is small when the plate is near surface and widens with a linear relationship as the plate (depth to top) increases. Figure G shows a much deeper plate where the separation distance of the peaks is much wider and the amplitudes of the channels have decreased.

Variation of Plate Dip

As the plate dips and departs from the vertical position, the peaks become asymmetrical. Figure B shows a near surface plate dipping 80º. Note that the direction of dip is toward the high shoulder of the response and the top of the plate remains under the centre minimum.

As the dip increases, the aspect ratio (Min/Max) decreases and this aspect ratio can be used as an empirical guide to dip angles from near 90º to about 30º. The method is not sensitive enough where dips are less than about 30º. Figure E shows a plate dipping 45º and, at this angle, the minimum shoulder starts to vanish. In Figure D, a flat lying plate is shown, relatively near surface. Note that the twin peak anomaly has been replaced by a symmetrical shape with large, bell shaped, channel amplitudes which decay relative to the conductance of the plate.

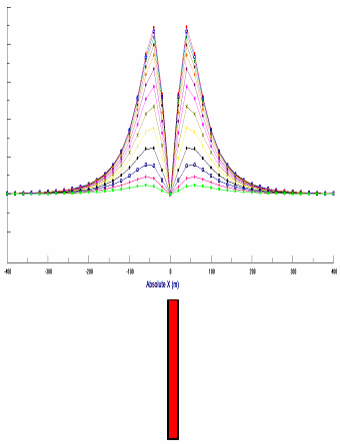
Figure H shows a special case where two plates are positioned to represent a synclinal structure. Note that the main characteristic to remember is the centre amplitudes are higher (approximately double) compared to the high shoulder of a single plate. This model is very representative of tightly folded formations where the conductors where once flat lying.

Variation of Prism Depth

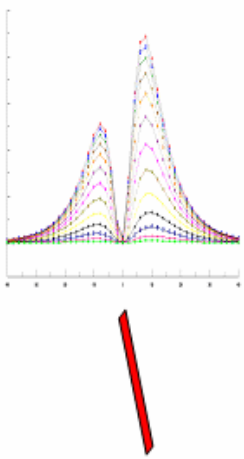
Finally, with prism models, another algorithm is required to represent current on the plate. A plate model is considered to be infinitely thin with respect to thickness and incapable of representing the current in the thickness dimension. A prism model is constructed to deal with this problem, thereby, representing the thickness of the body more accurately.

Figures C, F and I show the same prism at increasing depths. Aside from an expected decrease in amplitude, the side lobes of the anomaly show a widening with deeper prism depths of the bell shaped early time channels.

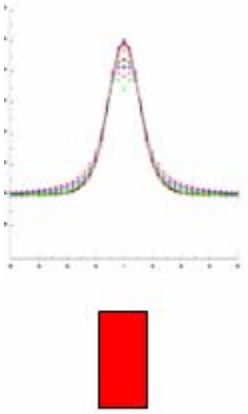
A



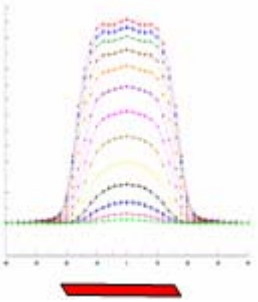
B



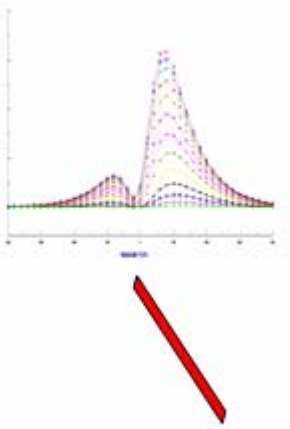
C



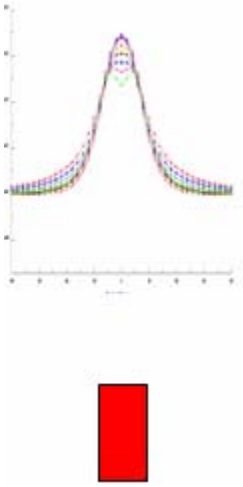
D



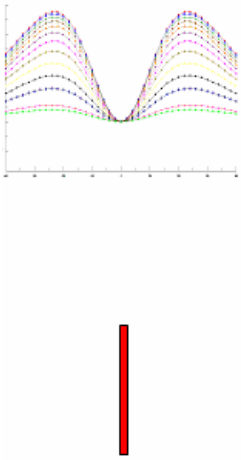
E



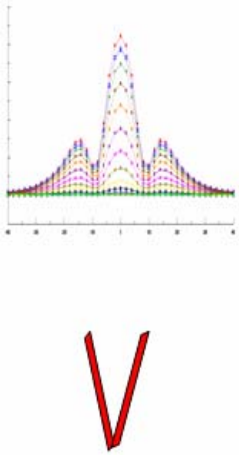
F



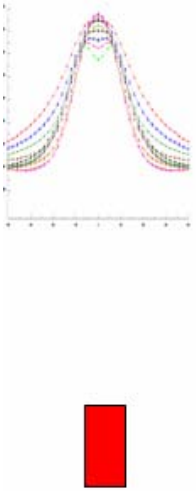
G



H



I



General Modeling Concepts

A set of models has been produced for the Geotech VTEM® system with explanation notes (see models A to I above). The reader is encouraged to review these models, so as to get a general understanding of the responses as they apply to survey results. While these models do not begin to cover all possibilities, they give a general perspective on the simple and most commonly encountered anomalies.

When producing these models, a few key points were observed and are worth noting as follows:

- For near vertical and vertical plate models, the top of the conductor is always located directly under the centre low point between the two shoulders in the classic **M** shaped response.

- As the plate is positioned at an increasing depth to the top, the shoulders of the **M** shaped response, have a greater separation distance.

- When faced with choosing between a flat lying plate and a prism model to represent the target (broad response) some ambiguity is present and caution should be exercised.

- With the concentric loop system and Z-component receiver coil, virtually all types of conductors and most geometries are most always well coupled and a response is generated (see model H). Only concentric loop systems can map this type of target.

The modelling program used to generate the responses was prepared by PetRos Eikon Inc. and is one of a very few that can model a wide range of targets in a conductive half space.

General Interpretation Principals

Magnetics

The total magnetic intensity responses reflect major changes in the magnetite and/or other magnetic minerals content in the underlying rocks and unconsolidated overburden. Precambrian rocks have often been subjected to intense heat and pressure during structural and metamorphic events in their history. Original signatures imprinted on these rocks at the time of formation have, it most cases, been modified, resulting in low magnetic susceptibility values.

The amplitude of magnetic anomalies, relative to the regional background, helps to assist in identifying specific magnetic and non-magnetic rock units (and conductors) related to, for example, mafic flows, mafic to ultramafic intrusives, felsic intrusives, felsic volcanics and/or sediments etc. Obviously, several geological sources can produce the same magnetic response. These ambiguities can be reduced considerably if basic geological information on the area is available to the geophysical interpreter.

In addition to simple amplitude variations, the shape of the response expressed in the wave length and the symmetry or asymmetry, is used to estimate the depth, geometric parameters and magnetization of the anomaly. For example, long narrow magnetic linears usually reflect mafic flows or intrusive dyke features. Large areas with complex magnetic patterns may be produced by intrusive bodies with significant magnetization, flat lying magnetic sills or sedimentary iron formation. Local isolated circular magnetic patterns often represent plug-like igneous intrusives such as kimberlites, pegmatites or volcanic vent areas.

Because the total magnetic intensity (TMI) responses may represent two or more closely spaced bodies within a response, the second derivative of the TMI response may be helpful for distinguishing these complexities. The second derivative is most useful in mapping near surface linears and other subtle magnetic structures that are partially masked by nearby higher amplitude magnetic features. The broad zones of higher magnetic amplitude, however, are severely attenuated in the vertical derivative results. These higher amplitude zones reflect rock units having strong magnetic susceptibility signatures. For this reason, both the TMI and the second derivative maps should be evaluated together.

Theoretically, the second derivative, zero contour or colour delineates the contacts or limits of large sources with near vertical dip and shallow depth to the top. The vertical gradient map also aids in determining contact zones between rocks with a susceptibility contrast, however, different, more complicated rules of thumb apply.

Concentric Loop EM Systems

Concentric systems with horizontal transmitter and receiver antennae produce much larger responses for flat lying conductors as contrasted with vertical plate-like conductors. The amount of current developing on the flat upper surface of targets having a substantial area in this dimension, are the direct result of the effective coupling angle, between the primary magnetic field and the flat surface area. One therefore, must not compare the amplitude/conductance of responses generated from flat lying bodies with those derived from near vertical plates; their ratios will be quite different for similar conductances.

Determining dip angle is very accurate for plates with dip angles greater than 30º. For angles less than 30º to 0º, the sensitivity is low and dips can not be distinguished accurately in the presence of normal survey noise levels.

A plate like body that has near vertical position will display a two shoulder, classic **M** shaped response with a distinctive separation distance between peaks for a given depth to top.

It is sometimes difficult to distinguish between responses associated with the edge effects of flat lying conductors and poorly conductive bedrock conductors. Poorly conductive bedrock conductors having low dip angles will also exhibit responses that may be interpreted as surfacial overburden conductors. In some situations, the conductive response has line to line continuity and some magnetic correlation providing possible evidence that the response is related to an actual bedrock source.

The EM interpretation process used, places considerable emphasis on determining an understanding of the general conductive patterns in the area of interest. Each area has different characteristics and these can effectively guide the detailed process used.

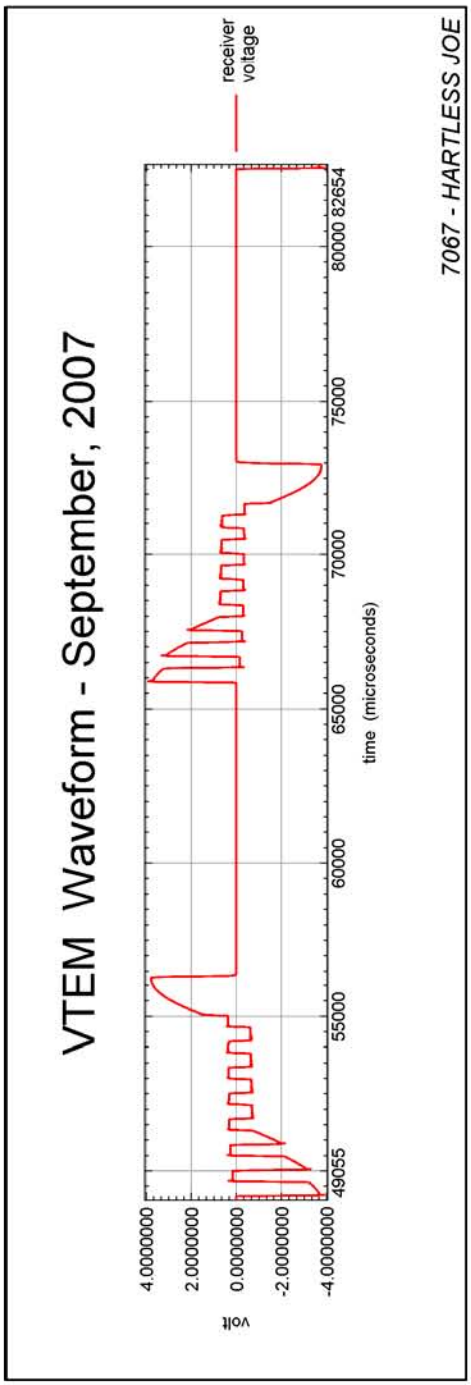
The first stage is to determine which time gates are most descriptive of the overall conductance patterns. Maps of the time gates that represent the range of responses can be very informative.

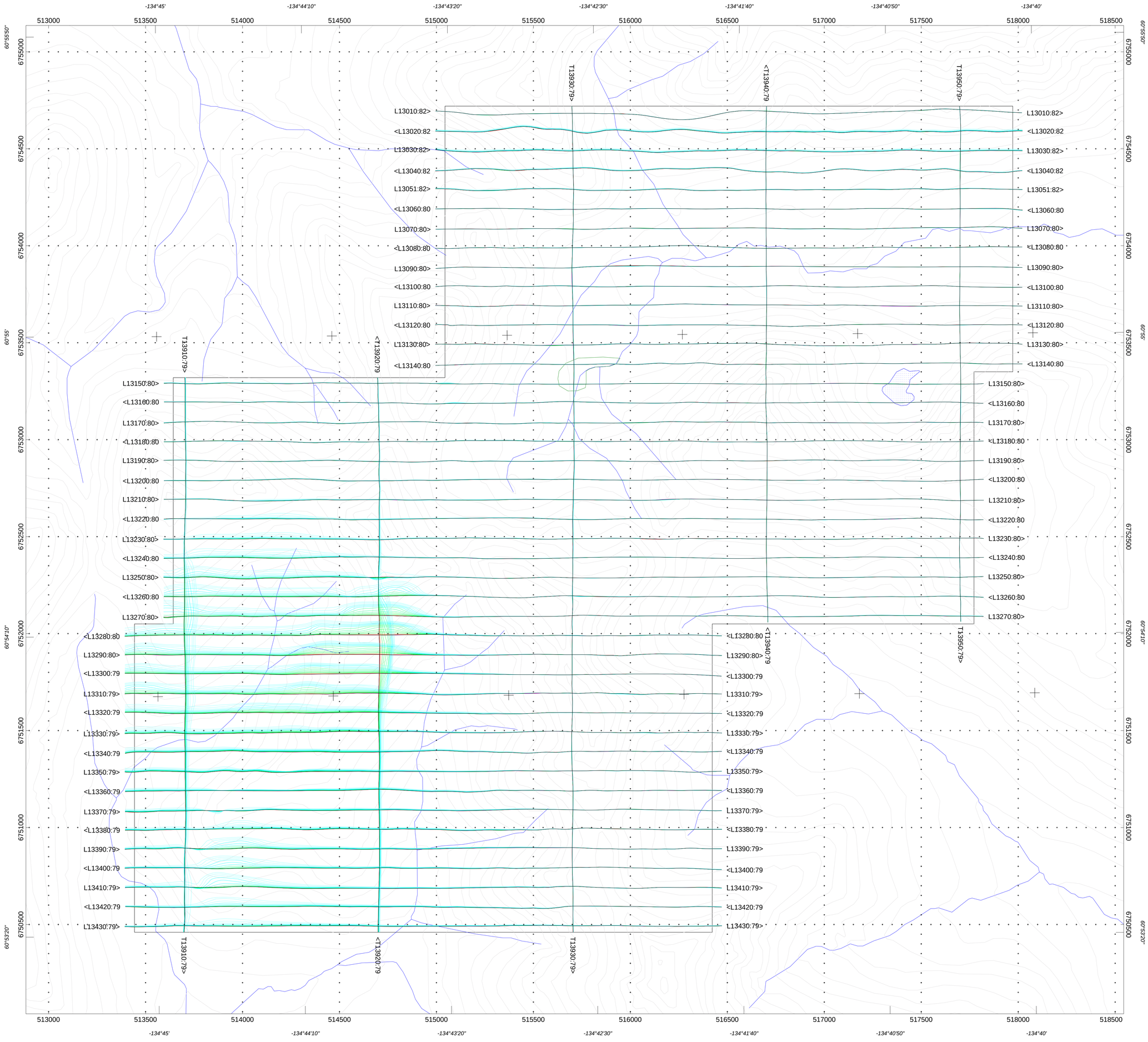
Next, stacking the relevant channels as profiles on the flight path together with the second vertical derivative of the TMI is very helpful in revealing correlations between the EM and Magnetics.

Next, key lines can be profiled as single lines to emphasize specific characteristics of a conductor or the relationship of one conductor to another on the same line. Resistivity Depth sections can be constructed to show the relationship of conductive overburden or conductive bedrock with the conductive anomaly.

APPENDIX D

VTEM WAVEFORM





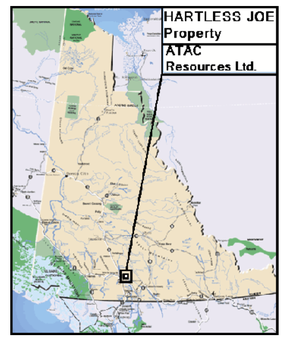
GEOTECH LTD.

Survey Specifications:

Dates Flown: September 03-September 07, 2007
Survey Base: Whitehorse, YT
Aircraft: Astar B3 helicopter, Registration C-GTFX
Nominal Flight Line Spacing: 100 metres
Nominal Flight Line Directions: N90°E/N270°W
Nominal Tie Line Spacing: 1000 metres
Nominal Tie Line Directions: N0°E/N180°W
Nominal helicopter terrain clearance 125 metres
EM Loop is 35 metres under helicopter
Magnetic sensor is 15 metres under helicopter

Instruments:

Geotech Time Domain Electromagnetic System (VTEM) with concentric Rx/Tx geometry
Transmitter Loop Diameter 26 m, Base Frequency 30 Hz
Dipole Moment 424,400 NIA
Transmitter Wave Form: Trapezoid, Pulse Width 7.22 ms
Geometrics Optically-pumped,
High Sensitivity Cesium Magnetometer
Magnetometer Resolution 0.02 nT at 10 samples/sec



Profiles scale 1 mm = 0.05 pV/A/m^4
(Linear between +/-0.2 pV/A/m^4
logarithmic above 0.2 pV/A/m^4)

- 0.234 ms
- 0.281 ms
- 0.339 ms
- 0.406 ms
- 0.484 ms
- 0.573 ms
- 0.682 ms
- 0.818 ms
- 0.974 ms
- 1.151 ms
- 1.370 ms
- 1.641 ms
- 1.953 ms
- 2.307 ms
- 2.745 ms
- 3.286 ms
- 3.911 ms
- 4.620 ms
- 5.495 ms
- 6.578 ms
- 7.828 ms

Legend:

- Roads
- Lakes, Rivers
- Swamps
- Topographic contours

Scale 1:10000

100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

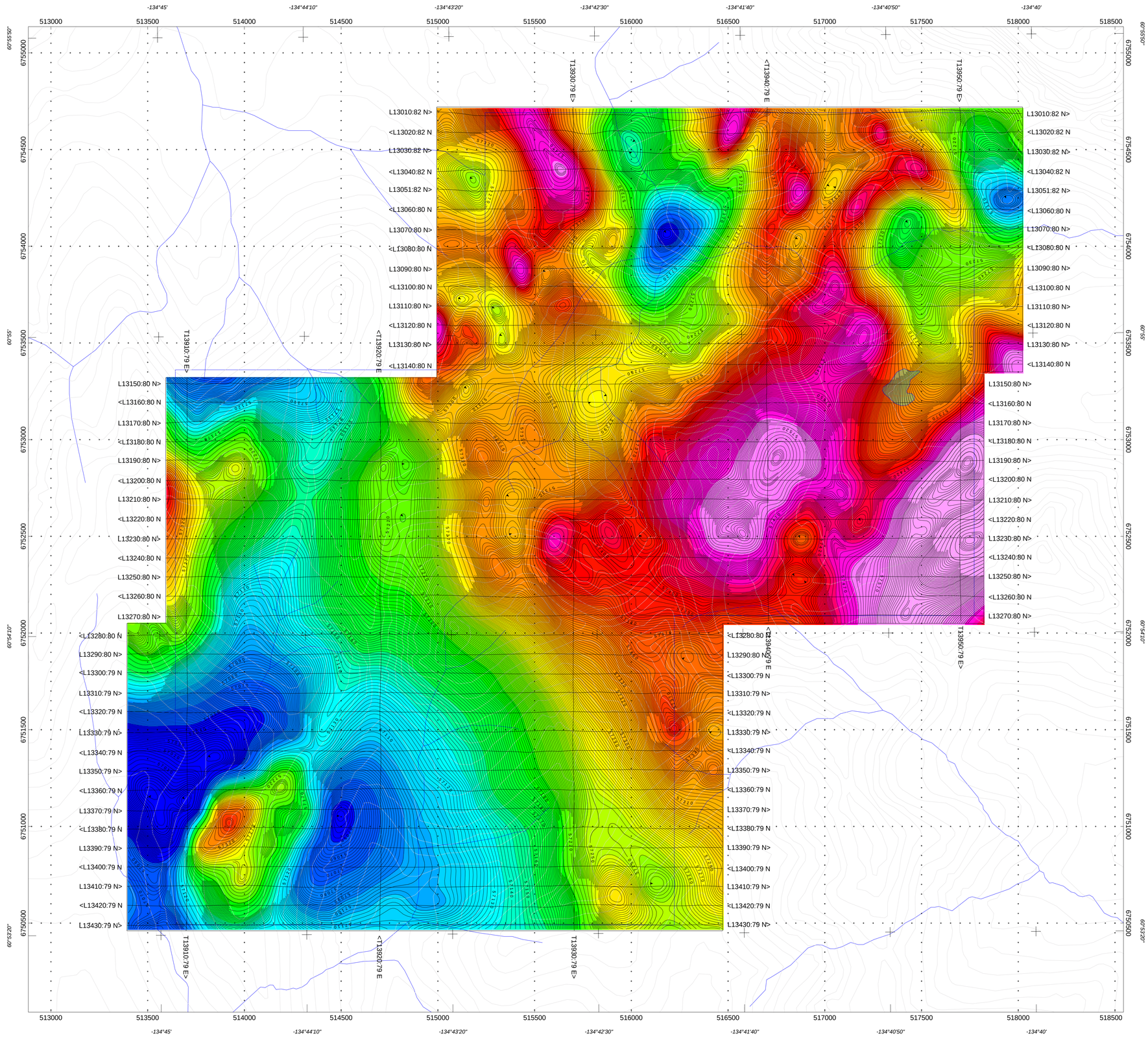
ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System
dB/dt Profiles
Time Gates 0.234 - 7.828 ms

Flown and processed by Geotech Ltd.
30 Industrial Parkway South,
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

November 2007

Project 7067



GEOTECH LTD.

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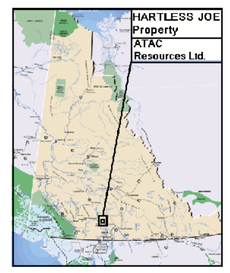
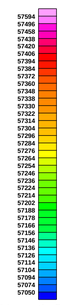




Magnetic field
(nT)

Contour intervals:

2 nT
10 nT
50 nT

Legend:

Roads
Lakes, Rivers

Swamps
Topographic contours

Scale 1:10000

100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

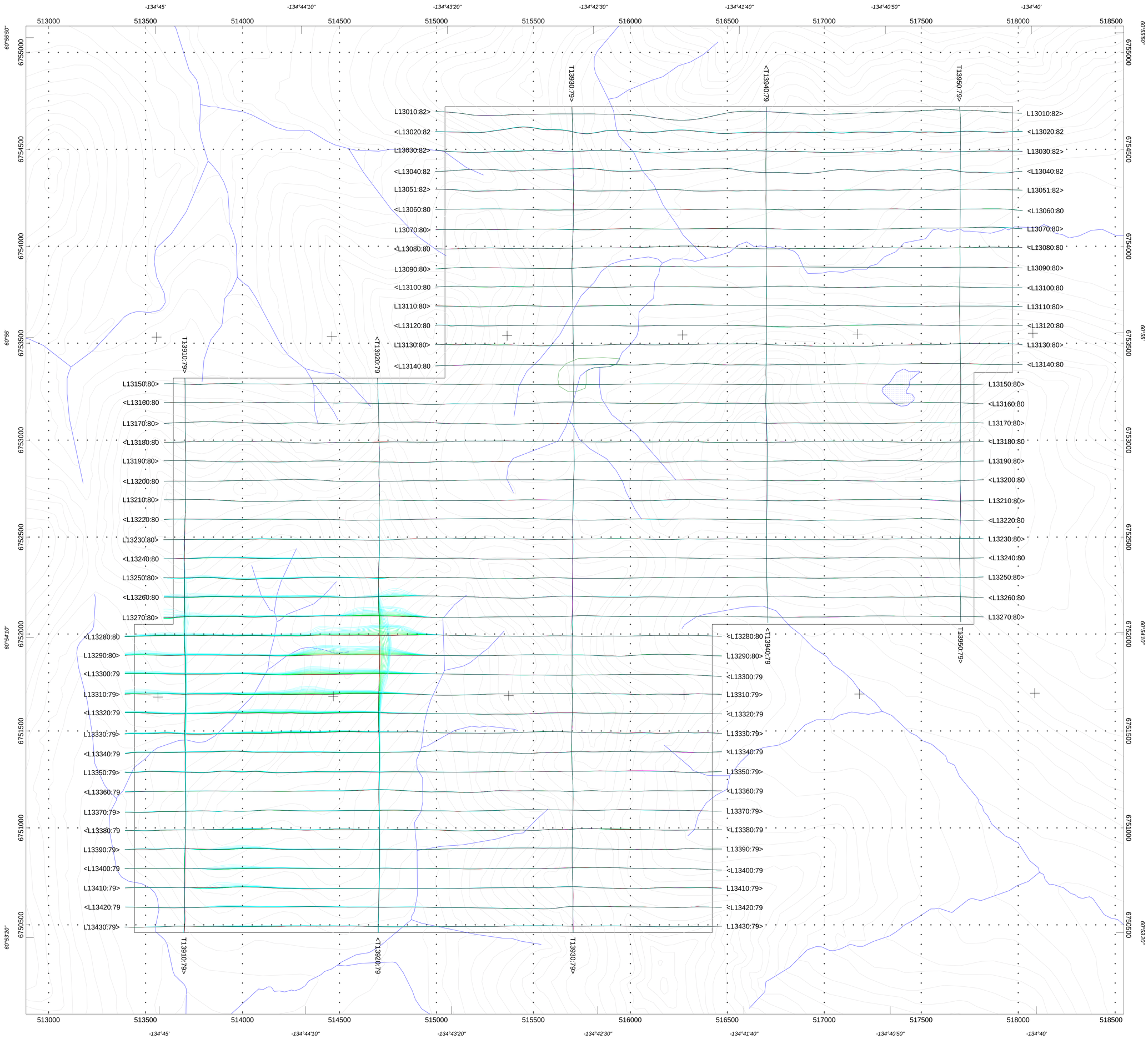
ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System
Total Magnetic Field Map

Flown and processed by Geotech Ltd.
30 Industrial Parkway South
Aurora, Ontario, Canada
www.geotechairborne.com

November 2007

Project 7067



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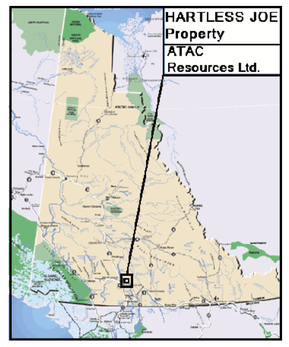


Profiles scale 1 mm = 0.05 (pV*ms)/A/m^4
(Linear between +/-0.2 (pV*ms)/A/m^4
logarithmic above 0.2 (pV*ms)/A/m^4)

- 0.234 ms (B-field)
- 0.281 ms (B-field)
- 0.339 ms (B-field)
- 0.406 ms (B-field)
- 0.484 ms (B-field)
- 0.573 ms (B-field)
- 0.682 ms (B-field)
- 0.818 ms (B-field)
- 0.974 ms (B-field)
- 1.151 ms (B-field)
- 1.370 ms (B-field)
- 1.641 ms (B-field)
- 1.953 ms (B-field)
- 2.307 ms (B-field)
- 2.745 ms (B-field)
- 3.286 ms (B-field)
- 3.911 ms (B-field)
- 4.620 ms (B-field)
- 5.495 ms (B-field)
- 6.578 ms (B-field)
- 7.828 ms (B-field)

Legend:

- **Roads**
- **Lakes, Rivers**
- **Swamps**
- **Topographic contours**

Scale 1:10000

100 0 100 200 300 400 500
(meters)
WGS 84 / UTM zone 8N

ATAC Resources Ltd.
Block HARTLESS JOE
Yukon, Canada

Geotech VTEM System
B-Field Profiles
Time Gates 0.234 - 7.828 ms

Flown and processed by Geotech Ltd.
30 Industrial Parkway South,
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

November 2007

Project 7067

APPENDIX V

GEOPHYSICAL REPORT BY AURORA GEOSCIENCE LTD., INCLUDING CD WITH DIGITAL IP DATA

ARCHER, CATHRO & ASSOCIATES 1981 LTD.

INDUCED POLARIZATION SURVEY AT THE HARTLESS JOE PROPERTY, SOUTHWESTERN YUKON TERRITORY

Andre Lebel
Dave Hildes. P.Geo., Ph.D.

1.0 INTRODUCTION

Aurora Geosciences Ltd. was retained by Archer Cathro & Associates Ltd. to perform an induced polarization and resistivity (IP) survey at the Hartless Joe Property north of Whitehorse, Yukon Territory. Two lines were surveyed as a test of whether IP would be a suitable technique to aid in identifying epithermal style gold mineralization on the property. This report describes the survey, data processing and results, and contains an interpretation of the data.

2.0 GRID

The location of the two survey lines are shown in the attached file "Hartless Joe grid Map.pdf". The lines were put in by Archer Cathro personnel prior to the arrival of the IP crew. The lines were registered to geographic coordinates (NAD83, UTM Zone 8N by taking repeated measurements with non-differential GPS receivers at stations spaced approximately 50 m along the lines, however the quality of the GPS data is poor This data is appended to the report in a digital file.

3.0 PERSONNEL AND EQUIPMENT

The survey was conducted by the following personnel:

Crew chief:	Ian Kickbush.
Helper:	Matt Olsen
Helper:	Manual Racine
Helper:	JP Tremblay

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

IP Transmitter: GDD TX-II 3.5 KW digital IP transmitter s/n 267
Honda 5KVA gas generator

IP Receiver: IRIS ElrecPro digital 10-channel IP receiver s/n 2315-276249851-166

Other IP equipment:
- 20 - 10 channel 50 m receiver cables
- 24 - stainless steel electrodes
- 6 km 18 gauge wire
- 2 - breast reels
- 2 - speedy winders
- 5 - VHF radios
- 1 - Spares kit and repair tools

Data processing: Dell P 2.16 GHz laptop

Geosoft IP package

4.0 SURVEY SPECIFICATIONS

The survey was conducted according to the following specifications:

Array:	Dipole-dipole
Dipole spacing:	50 m
Separations read:	n=1 to 10
Tx mode / signal:	Standard time domain signal (2 s +on, 2 s off, 2 s -on, 2 s off)
Receiver sampling:	Semi-logarithmic sampling of the decay curve in 20 windows, stacked minimum 15 times.
Parameters read:	M_t - total chargeability (ms) R_o - apparent resistivity M_1 to M_{10} - 10 channel samples of decay curve V_p - Primary voltage Sp - spontaneous potential E - error in chargeability (ms)
Noise:	Standard deviation of the chargeability was kept to 5 ms or less wherever possible. If this was not possible, readings were repeated several times to determine their repeatability.
Other:	Points were measured with non-differential GPS

5.0 SURVEY NOTES

The survey log in Appendix A describes survey operations including production. The crew mobilized to the property daily by helicopter from Whitehorse. The survey covered 1.3 line-km on 2 lines and was completed in 2 days.

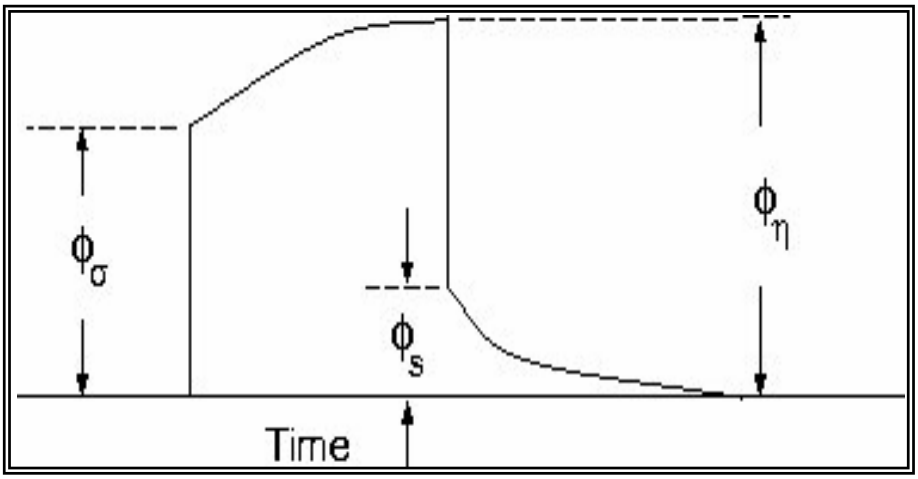
6.0 IP INTERPRETATION METHOD

The data were inverted using the DCIP2D package developed by the University of British Columbia Geophysical Inversion Facility. The inversion algorithm is described in detail by Oldenburg and Li (1994). A brief description of key features of the algorithm follows.

The IP effect can be described in macroscopic terms. If a time domain signal is put into the ground, as soon as the current is turned on, the voltage immediately

rises to a level (ϕ_σ) and thereafter continues to rise to a higher level (ϕ_η). At current shutoff, the voltage immediately falls to a level (ϕ_s) and then slowly decays to zero along a curve similar to that between ϕ_σ and ϕ_η . Apparent chargeability is defined as the Aextra@voltage observed:

$$\eta_a = \frac{\phi_\eta - \phi_\sigma}{\phi_\eta} = \frac{\phi_s}{\phi_\eta}$$



The observed DC potentials ϕ_σ are defined by the vector form of Ohms Law:

$$\nabla \cdot (\sigma \nabla \phi_s) = -I\delta(r - r_s)$$

where **r-r$_s$** is the vector to the measurement point, **I** is the current and **σ** is the conductivity structure of the earth - the unknown quantity in the geophysical problem. The chargeability can be modeled by replacing the conductivity by an equivalent apparent conductivity controlled by the chargeability:

$$\sigma_\eta = \sigma(1 - \eta)$$

Modeling the IP effect then involves running two conductivity models - one with **σ** and one with σ_η .

The unknown quantity is the distribution of conductivities in the earth. The software models the earth conductivity structure as a series of rectangular cells of varying size and aspect ratio. The grid is finest (most detailed) near the measurement points and much coarser at locations beside or at depth beneath the measurement points. The padding cells are necessary to avoid edge effects in the model. The size and dimensions of the models in no way compensates for the basic limitations on depth of penetration and resolution inherent in the IP/resistivity survey. Thus the effective depth of penetration (0.5 to 1.0 times the maximum dipole separation) is the limit to which the

models should be relied upon to accurately reflect true earth conductivities and chargeabilities.

The program calculates the potential across the finite element network using a starting model. Appropriate boundary conditions are applied when calculating the potentials across the network. These include the condition that all current flow is normal to the cell boundaries and voltages are continuous across the boundaries. The sensitivity of the model to changing the parameters in any cell is calculated as is the misfit between the model results and the actual observed potentials / chargeabilities. The model is then adjusted using the calculated sensitivities of the response to changes in the conductivity of individual cells.

There is no unique solution or model which fits any set of IP / resistivity data. A best-fit model is one which (1) fits the data within the error of the survey and (2) invokes the minimum required degree of complexity to fit the data. For a set of **N** measurements, a global misfit can be defined as:

$$\Psi_d = \sum_{i=1}^{N} \left(W_i\left(r_i - r_i^{obs}\right)\right)^2$$

where W_i is the weighting factor for the i^{th} measurement (r^{obs}) and r_i is the model response for this measurement. The weighting factor is usually the inverse of the error so that a measurement with high error has a low weighting and vice versa. In a system with random noise, the target misfit is **N**. The algorithm reduces Ψ_d by repeatedly adjusting the conductivities to improve the fit until the global misfit equals the target misfit. At this point, the model fits the data to within the error of the survey.

The second requirement of a successful solution is that the complexity of the final model be minimized. IP measurements are inherent averages, deriving resistivity and chargeabilities from large volumes of the subsurface. It is possible to over-fit data, deriving solutions which over-minimize misfit but which invoke models with detail beyond the resolving power of the measuring arrays. The problem is ill-posed and inherently ambiguous in that an infinite number of models may satisfy the global misfit equals target misfit criterion. If both a simple and complex solution can adequately replicate the field data within the bounds of measurement error, the simple solution is to be preferred.

Starting with a reference model m_0 and weighting functions for x and z (w_x, w_z), define the complexity of the model as Ψ_m where:

$$\psi_m(m, m_0) = \alpha_s \int\int w_s(x,z)(m - m_0)^2 dx\,dz +$$
$$\int\int \left\{ \alpha_x w_x(x,z) \left(\frac{\partial(m - m_0)}{\partial x} \right)^2 + \alpha_z w_z(x,z) \left(\frac{\partial(m - m_0)}{\partial z} \right)^2 \right\} dx\,dz$$

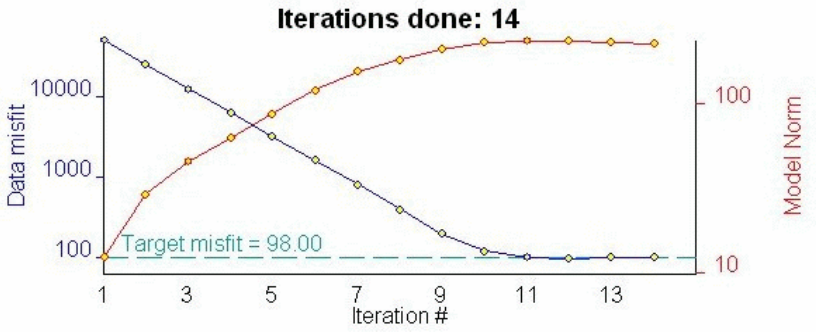
where α_x , α_z and α_s define the relative weight of the model in x, z and fineness. Increasing any of these weighting coefficients increases the importance of that dimension in the final solution. For example, to weight the final solutions towards vertical structures, α_z would be weighted several times more than α_x. To force the model to generate fewer small scale structures, α_s is increased.

The final criteria for a successful solution can then be expressed as:

1. Minimize Ψ_m

2. Subject to the constraint that Ψ_d = N (or very close to it).

To evaluate a solution, the reader should examine not only the final values but the path the program followed to reach these values. An example of typical convergence curves is shown below:

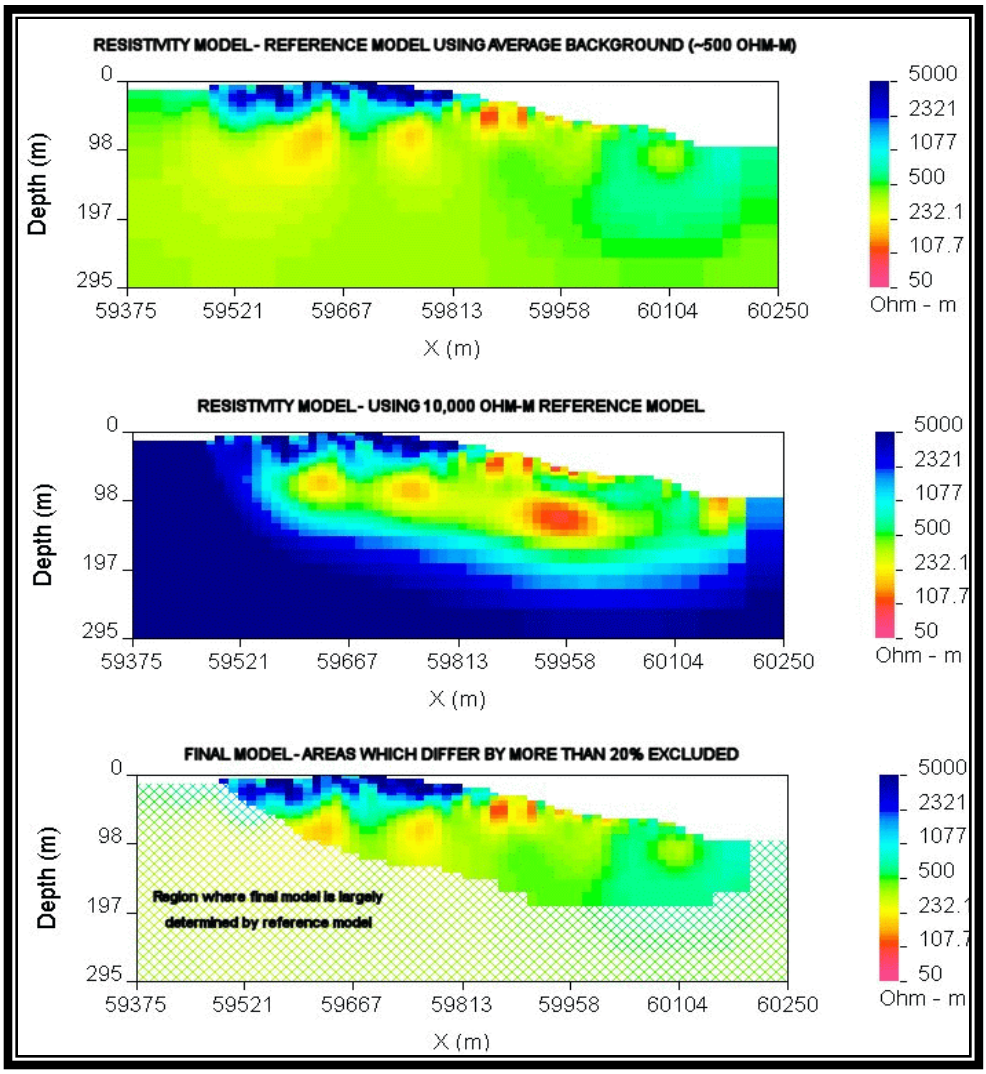


The black line traces the value of Ψ_d with each iteration and in a good inversion, this will converge to the target misfit (N). The orange curve traces the convergence behavior of Ψ_m . This curve normally starts at a very small value because the reference model is usually set to the initial model and the initial and reference models are very simple. As the inversion proceeds, the solution model becomes increasingly complex as it is adjusted to meet the target misfit. After reaching target misfit, minor adjustments are made to reduce the complexity of the model and the Ψ_m curve stabilizes at some high value.

The field observations often have significant poorly quantified errors and the complexity of the background conductivity response may be such that it is impossible to reduce Ψ_d

to N. Instead, Ψ_d can be scaled proportionately by a Achi-factor@ ranging up or down from 1.0 (no scaling). Setting a large chi-factor loosens the control that goodness-of-fit exerts on the solution and generally directs the program to use very simple models which tend to smooth out the conductivities and fails to accurately model the fine details in resistivity or chargeability known to exist in the ground. Setting a chi-factor which is too low may prevent convergence to an acceptable solution. Generally, chi is left at 1.0. A final feature of note in the inversion is the use of initial and reference conductivity and chargeability models in the inversion process. As noted above, the relation for Ψ_m requires a reference model (m_0) against which solutions are compared. This can be an actual 2D model constructed from known geology or a estimate of half space conductivity or chargeability. In addition, the modeling process will start from an initial model which has the same general form. In general, an average half space conductivity and chargeability based on the field values is the best model to start from and this is the default model for both inversions if none other is specified. This will ensure that Ψ_m converges to a value which is not too large. The initial and reference models can be used to estimate the depth of investigation. If two inversions are performed with very different reference models, there will be regions in the final models which will be the same in both inversion and peripheral regions where the final models will resemble the reference models. An example is shown below:

7.0 DATA PROCESSING & PRODUCTS



Depth of investigation determined from inversion results using different initial and reference models.

The following procedures were used to prepare and invert the induced polarization and resistivity data:

1. Data review. All data were dumped daily and imported into the Geosoft Oasis Montaj IP package. All readings were examined; outliers and data with relatively large errors were thrown out, the rest were averaged to produce a single reading for each station and n-separation. Where there were repeat readings, a weighted average was used to bias readings with higher stacks and lower standard deviations. The averages were calculated as follows:

$$AverageV = \left(\sum_i S_i V_i / Err_i\right) / \left(\sum_i S_i / Err_i\right)$$

$$AverageErr = \left(\sum_i S_i\right) / \left(\sum_i S_i / Err_i\right)$$

where *S* represents the number of stacks, *V* is the value to be averaged and *Err* is the standard deviation of the reading. The standard deviation of voltage measurements were taken to be equal to 1 as this value is not reported by the instrument. If the data were too noisy and were not repeatable, no final data were included in the final data set. Typically data quality was good throughout the survey.

2. Data formatting. The apparent chargeability, resistivity (in normalized voltage over current) and topographic data were formatted for entry into the 2D UBC inversion program.

3. Resistivity modelling. For each line, errors in the apparent conductance were assigned to the data. There is no means of directly quantifying these errors because neither the transmitter nor receiver records the error in the current or voltage. Errors were assumed to be 0.001 + 5% S/m. Following error assignment, the data were inverted with a deep mesh due to high topographic relief. Default initial and reference models based on an average of the apparent resistivity were used. After the default run, the data were inverted a second time using initial and reference models of 20000 Ohm-m, a much higher value than the average in the survey area. The purpose of this second run is to generate a model with a background resistivity greatly different than the average values used in the default run. After the second run, the two models were compared and the lower region in the default model which differed by a factor more than 10% were replaced by a hatching pattern on the default run. In these hatched regions, the final model is not sensitive to the field data and there is no reliable subsurface information. The Chi factor was adjusted to 1.0 on L5450 and 1.5 on L4930 to ensure convergence and an appropriate level of structure to the model.

4. Chargeability modelling. For each datum, the observed standard deviation of chargeability was used as a measure of error for apparent chargeability. To avoid zero errors, a minimum of 0.2 mV/V was added to each error measurement. The IP data were first inverted using default values (initial and

reference model of a 0 mV/V half-space), with the same mesh as the resistivity modelling, using the default recovered resistivity model. After the first run, the data were inverted a second time using initial and reference models of 100 mV/V (a much higher value than the average in the survey area). The two models were then compared and regions in the default model which varied more than 10% were replaced by a hatched pattern in the final models. In these hatched regions, the final model is not sensitive to the field data and there is no reliable subsurface information. The Chi factor was adjusted to 0.7 on both lines to ensure convergence and an appropriate level of structure to the model.

5*. Image extraction.* After the modelling was complete, final images were generated with the inversion software and converted to JPEGs.

6*. Composite sections.* Pseudosections of the apparent resistivity, apparent chargeability, error in chargeability and true sections of recovered models of resistivity and chargeability were prepared from the final edited data and modelling results using the Geosoft Oasis Montaj IP package. Logarithmic colour scales for the resistivity sections and linear colour scales for the chargeability and error were used. To highlight details, colours are scaled to each line individually.

7. Digital archive. The final IP data, digital copies of the composite sections, stacked sections, inversion images and plan view maps were written to CD-ROM (attached to this report).

Final digital data are appended to this report in ASCII and Geosoft gdb format. Also included are GPS position measurements taken along the survey lines. These show the averaged location of the survey point in UTM coordinates, NAD 1983 datum, Zone 8N projection. This data is contained in an ASCII text file (GPS Points.txt). Composite sections are appended to this report at a scale of 1:5000. The inversion results are appended to this report. These images show the observed data, the model generated response for comparison, the 2D resistivity distribution in the final model and the 2D chargeability distribution in the final model. Convergence curves are also shown to assist the reading in assessing the quality of the inversion. In these models, convergence to the target misfit was achieved.

9.0 RESULTS & DISCUSSION

A detailed description of the results for each line follows:

Line 4930E

There is a 100 kOhm-m resistivity high at station 300N and the section is most conductive at the northern end having a resistivity of 2000 Ohm-m by station 650N. A

chargeability high of 19 mV/V, not well correlated to the resistivity, extends from 260N open to the north. The chargeability anomaly dips to the north parallel to surface slope.

Line 5450E

To the south of the peak of the ridge at station 275N is a generally more resistive unit (> 10 000 Ohm-m) with chargeabilities of < 15 mV/V. To the north of the ridge is more conductive (2000 – 10000 Ohm-m) with recovered chargeabilities up to 28 mV/V. In particular, coincident high chargeability and low resistivity are modelled to come to surface at 300-325N, 360-375N and 600-640N.

Discussion

The Hartless Joe property is underlain by the Mid Triassic Joe Mountain Formation. Earlier geochemical sampling and prospecting found gold- and sliver-rich, quartz-sulfide veins, shears and breccias, some of which exhibit low sulphidation epithermal affinities.

L4930 partially covers the Grumpy showing on the southern end of the line. There is a slight increase of chargeability at the southern extreme of the line (up to 13 mV/V) but generally the chargeability there is very low. The large relatively low chargeability anomaly is suggestive of the predominantly pyrite stratigraphic mineralization that has been observed at the Grumpy showing. An IP survey with a longer dipole spacing would image the chargeability feature to a greater depth, perhaps closing it off.

There appears to be a lithological boundary on L5450 at the ridge, being chargeable and relatively more conductive immediately north of the ridge. In particular, the three chargeable/conductive features which are modelled to come to surface at 300-325N, 360-375N and 600-640N should be examined carefully at surface and/or trenched. If these results are positive, then the deeper chargeability anomaly centered at 425N which is open at depth may be drill-tested.

If the chargeability on L4930 is reflecting stratigraphic mineralization or a positive result is achieved from further investigation of the chargeability anomalies on L5450, further IP surveying would be recommended. However, the ground is very steep and rocky and some areas may not be possible to survey.

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Andre Lebel

Dave Hildes Ph. D, P. Geo.

APPENDIX A

AURORA GEOSCIENCES LTD.
JOB ACA-7552-YT
HARTLESS JOE IP SURVEY

Period: September 8th - September 9th , 2007

Personnel:

Ian Kickbush	Crew Chief
Matt Olsen	Helper
Manual Racine	Helper
JP Tromblay	Helper

Sept 8, 2007 Survey
Arrived at Capital Helicopters at 8:30am. Using a Jet-Ranger II we made to flights to the property. First flight to transport the crew and the second flight to transport the gear. Dense fog, so the helicopter was flying low against ground. Steep terrain and slippery rocks made for slow transport of IP cables up side of hill. set up cables From 10-3, Surveyed line From 3-7, and Helicopter arrived at 5:30pm, from 7-8 weather cleared so were able to transport gear to next line, and arrived in Whitehorse at 8:15pm.

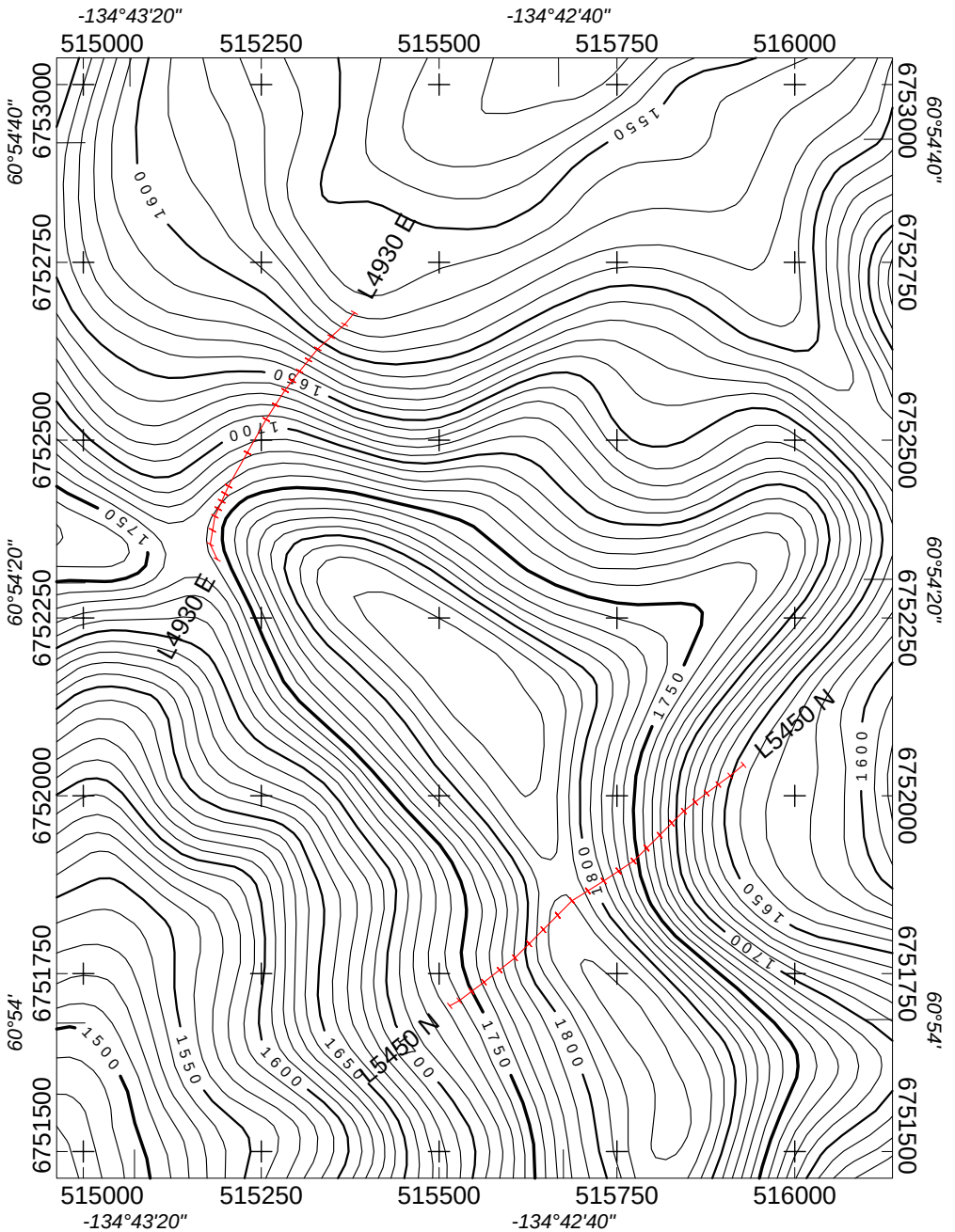
Production: 600m

Sept 9, 2007 Survey
Arrived at Capital Helicopters at 8:00am. Using a Jet-Ranger II we made to flights to the property. All 4 of us were let off at transmiter site where we had put the sling load from the day before. Finished the survey at 3:45am (slope wasn't as steep or as technical) and called expiditor to arrange Capital for a earlier pick-up. Helicopter arrived at 5:30pm, and there was 2 trips, the first trip with sling and gear, and the second trip with crew who arrived back in Whitehorse at 7:15pm.

Production: 700m

Survey Days: 2 days

Total IP Production: 1.3 Km



ELEVATION CONTOURS (m)

10

50

200

Scale 1:10000

100 0 100 200 300 400

(meters)

NAD83 / UTM zone 8N

ARCHER, CATHRO & ASSOCIATES 1981 LTD.

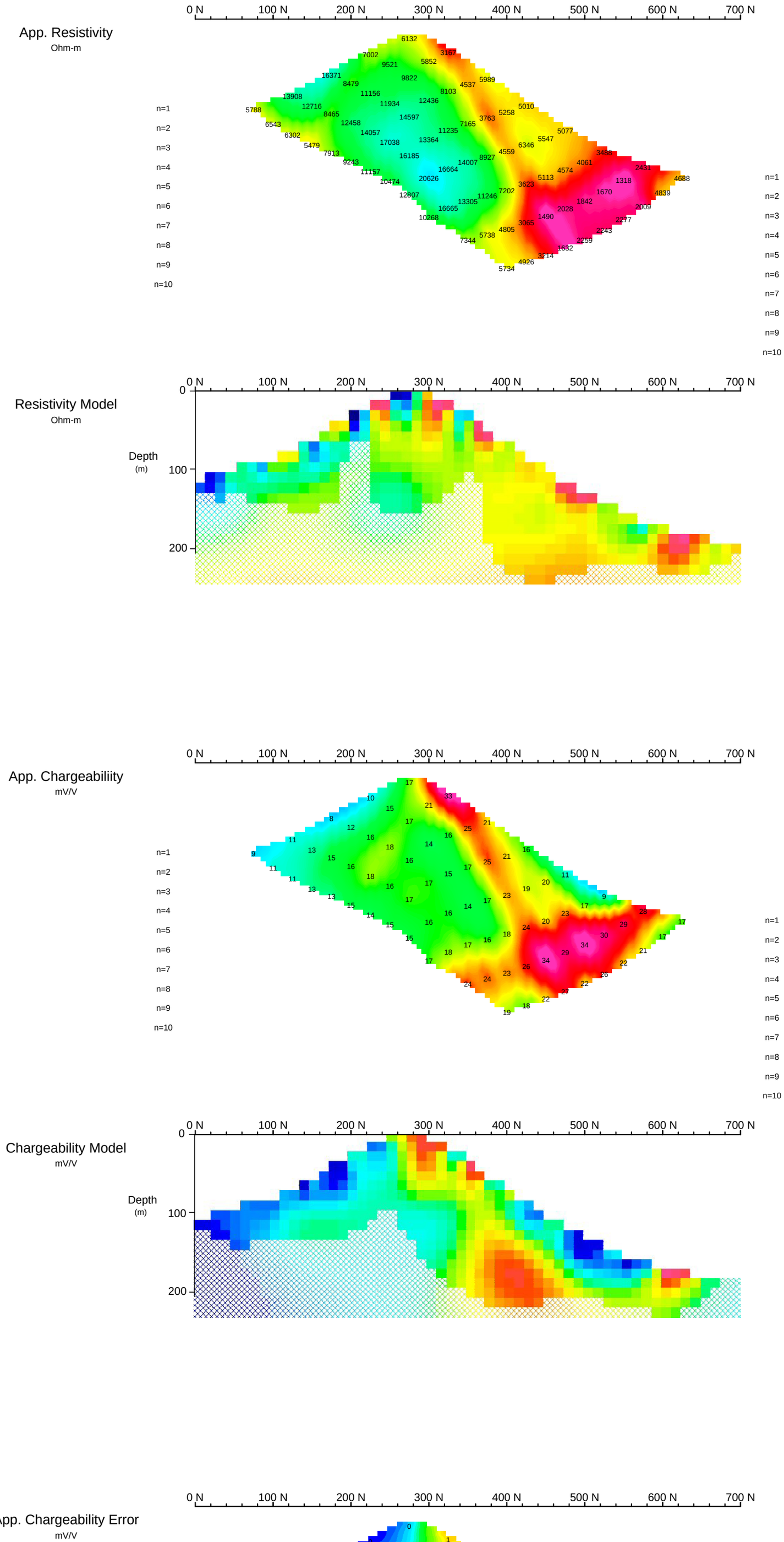
HARTLESS JOE IP SURVEY
GRID MAP

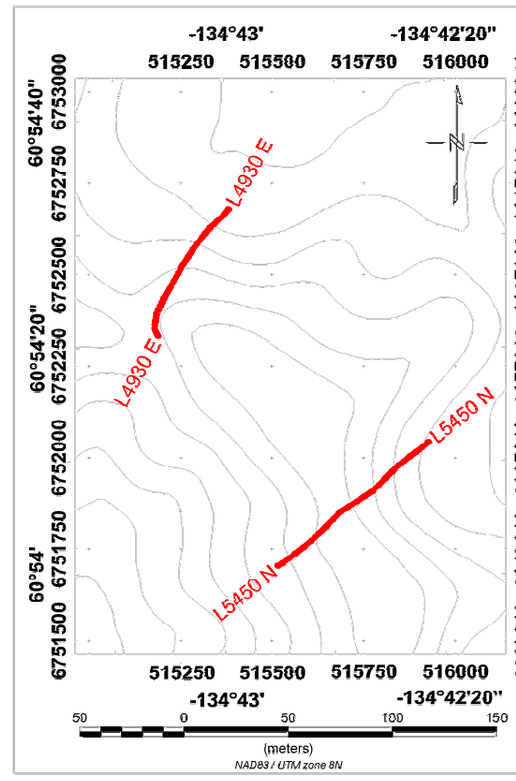
LOC: Yukon
NTS Sheet: 115D/15
Proj: UTM Z8N
JOB: ACA-7552-YT

Date Surveyed: Sept 8 & 9, 2007
Minning District: Whitehorse
Datum: NAD 83, MSL
Date: Oct 24, 2007

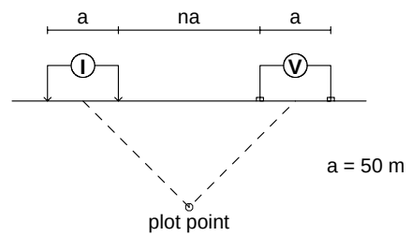
AURORA GEOSCIENCES LTD.

Compostite IP Section
L5450 E





Dipole-Dipole Array



Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File:Hartless Joe IP.xyz

Dates Surveyed : Sept 8-9, 2007

Scale 1:5000

50 0 50 100 150 200 250 300

(meters)

ARCHER, CATHRO & ASSOCIATES 1981 LTD.

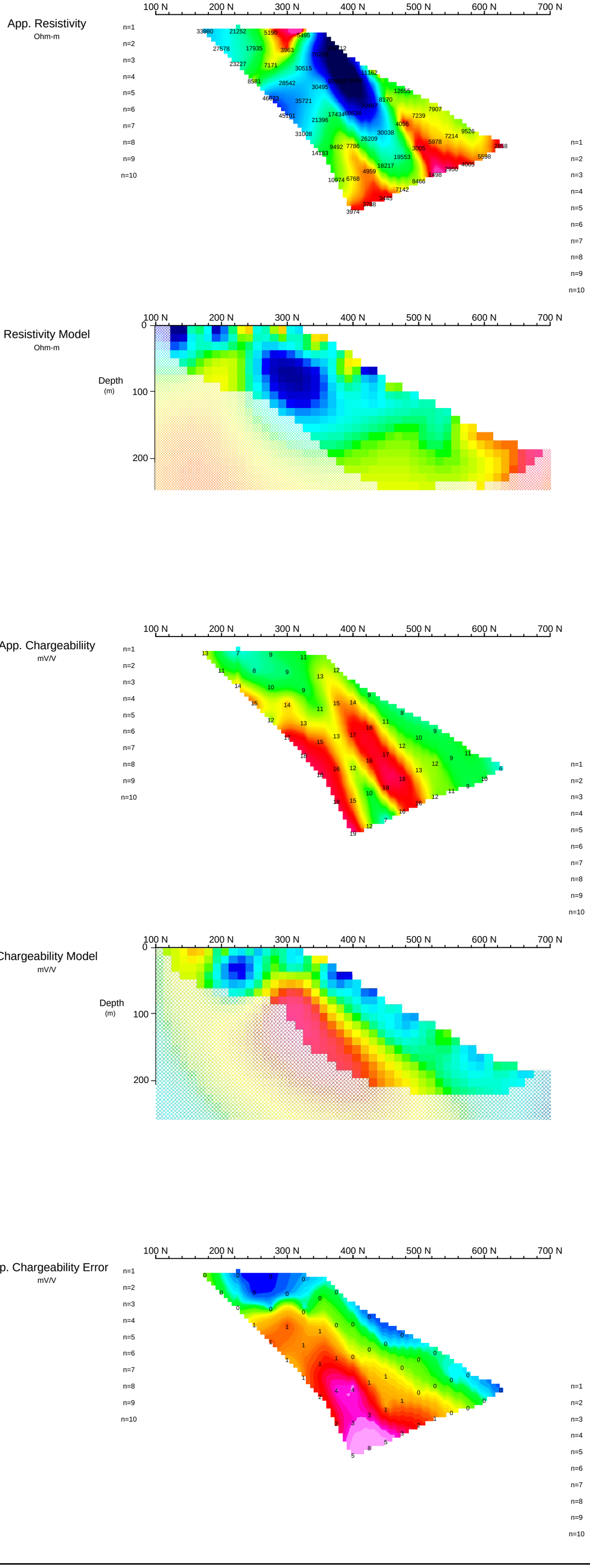
INDUCED POLARIZATION SURVEY
Hartless Joe Property L5450 E

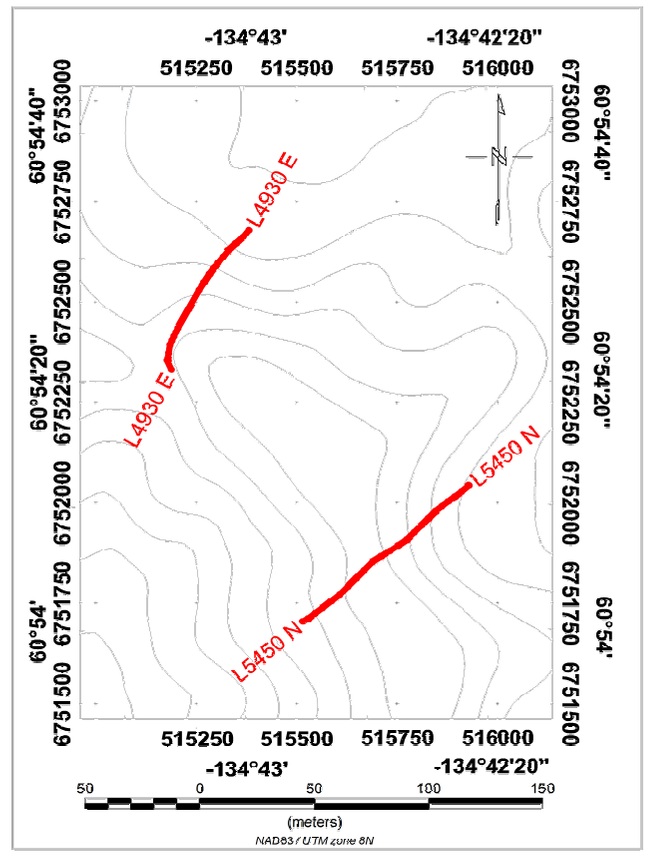
LOC: Yukon
NTS Sheet:115D/15
Proj: UTM Zone 8N
JOB: ACA-7552-YT

Date Surveyed: Sept 8 to Sept 9, 2007
Minning District: Whitehorse
Datum: NAD 83, MSL
DATE: Oct 30, 2007

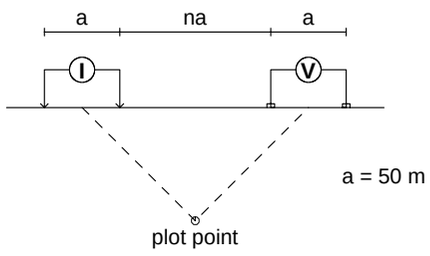
AURORA GEOSCIENCES LTD.

Compostite IP Section
L4930 E





Dipole-Dipole Array



Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File:Hartless Joe IP.xyz

Dates Surveyed : Sept 8-9, 2007

Scale 1:5000

50 0 50 100 150 200 250 300

(meters)

ARCHER, CATHRO & ASSOCIATES 1981 LTD.

INDUCED POLARIZATION SURVEY
Hartless Joe Property L4930 E

LOC: Yukon
NTS Sheet:105D/15
Proj: UTM Zone 8N
JOB: ACA-7552-YT

Date Surveyed: Sept 8 to Sept 9, 2007
Minning District: Whitehorse
Datum: NAD 83, MSL
DATE: Oct 24, 2007

AURORA GEOSCIENCES LTD.

QW28152

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 – 510 West Hastings Street
Vancouver, B.C. V6B 1L8
Telephone: 604-688-2568 Fax: 604-688-2578

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on Hart 1-28, Joe 1-10 and Les 1-10 mineral claims on Claim Sheet 105D.15 is accurate.

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 4th day of December, 2007.

Notary Public, Yukon Territory

QW28152

Statement of Expenditures
Hart 1-28, Joe 1-10 and Les 1-10 Mineral Claims
November 27, 2007

Contract VTEM Survey

Geotech Ltd.	$34,466.22

Geotech Ltd.

30 Industrial Parkway South, Aurora ON L4G 3W2

BILL TO:
Archer, Cathro & Associates (1981) Limited 1016-510 West Hastings Street Vancouver, BC Canada V6B 1L8

DATE:	INVOICE:
10/12/2007	991107

HART - $ 32515.30 + GST 1950.92

= $ 34 466.22

TERMS:	Project
Due on receipt	7067

Description		Amount
Helicopter-borne time domain electromagnetic geophysical survey with VTEM system Interm Billing - 90% of the estimated total charge plus any additional charges, including but not limited to additional line km, standby days, plus GST is payable completion of flying.		665,651.00
nimet (Yukon and northern BC.)		
Estimated 5690 line km @ $70.00	$398,300.00	
29 blocks @ $2,000.00 per block	$58,000.00	
65 days @ $6,000.00 per day	$390,000.00	
Helicopter time charges for 227.3 hours @ $1,800.00 per hour	$409,140.00	
Helicopter mob/demob	$10,000.00	
Crew and equipment mob/demob	$7,000.00	
Minimum survey charge	$1,272,440.00	
90% of $1,278,440.00	$1,145,196.00	
Less Previoius Billing		
Invoice 991034	($289,040.00)	
Invoice 991078	($190,505.00)	
Total Billable Amount	$665,651.00	

Business Number: 110859469

Subtotal Can$665,651.00

GST Can$39,939.06

TOTAL Can$705,590.06

Please Remit By Bank Transfer To:
TD CANADA TRUST
[illegible]55 YONGE ST., UNIT 1
WMARKET, ONTARIO L3X 1V6
TRANSIT # 3102
ACCOUNT #5217874

8756

Tel: 905-841-5004 Fax: 905-841-0611 email: info@geotechairborne.com