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ASSESSMENT REPORT

describing

DIAMOND DRILLING

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.
and
FERUS RESOURCES LTD.

by

Doug Eaton, B.Sc. Geology
December 2008

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INTRODUCTION

The Hartless Joe property covers epithermal gold-silver mineralization, mostly hosted in quartz-healed veins and breccia structures. The property is located in southern Yukon and comprises 48 contiguous mineral claims. It is owned by ATAC Resources Ltd. and is under option to Ferus Resources Ltd.

This report describes a diamond drill program that was conducted between June 25 and July 10, 2008 with funding by Ferus. The program consisted of three holes totalling 612.2 m. The author participated in and supervised the program. His 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´N and longitude 134°50´W 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 on Figure 2.

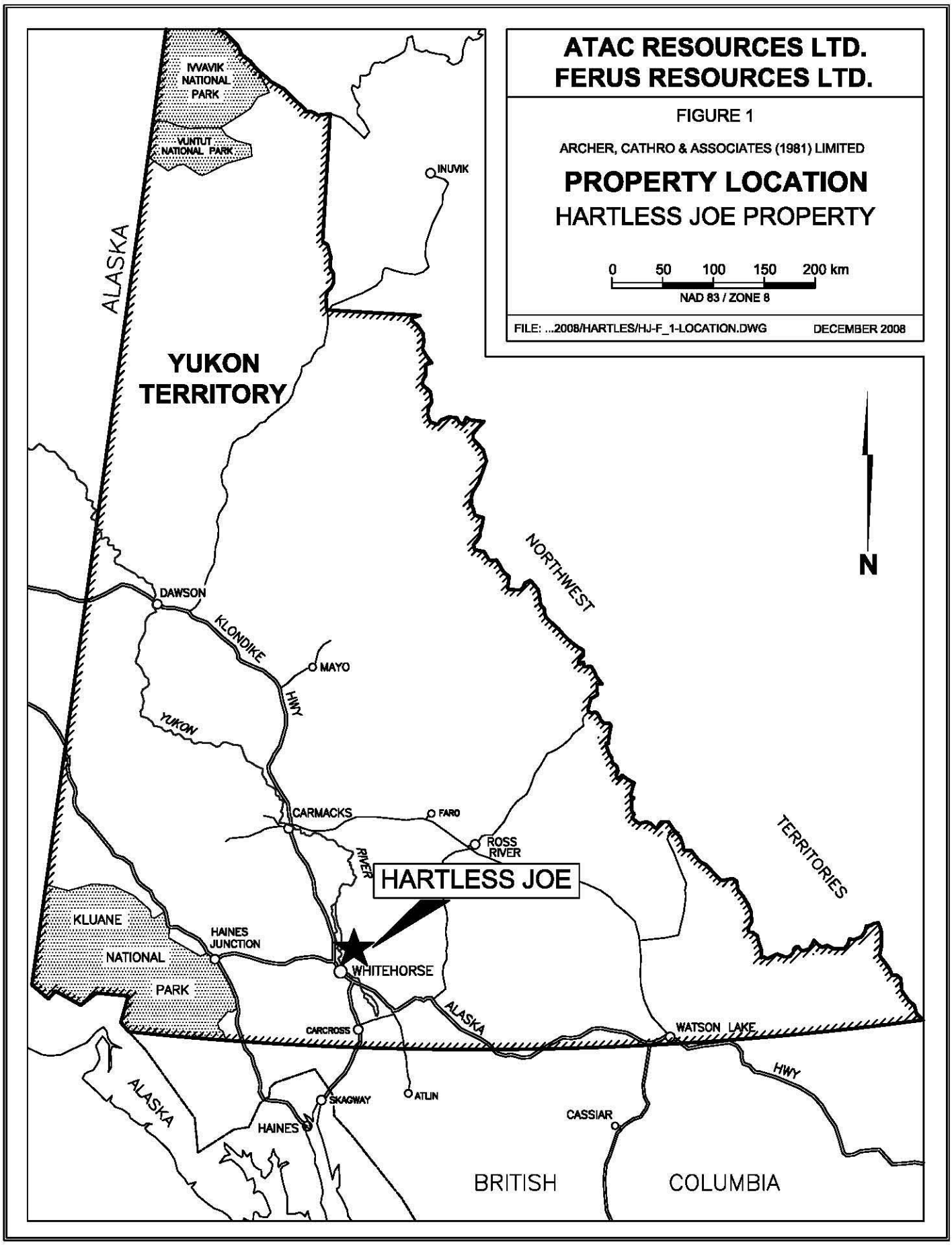
Claim Name	Grant Number	Expiry Date*
Hart 1	YC26563	March 1, 2019
2-4	YC30012-YC30014	March 1, 2019
5-28	YC37057-YC37080	March 1, 2018
Les 1-10	YC37081-YC37090	March 1, 2018
Joe 1-10	YC37091-YC37100	March 1, 2018

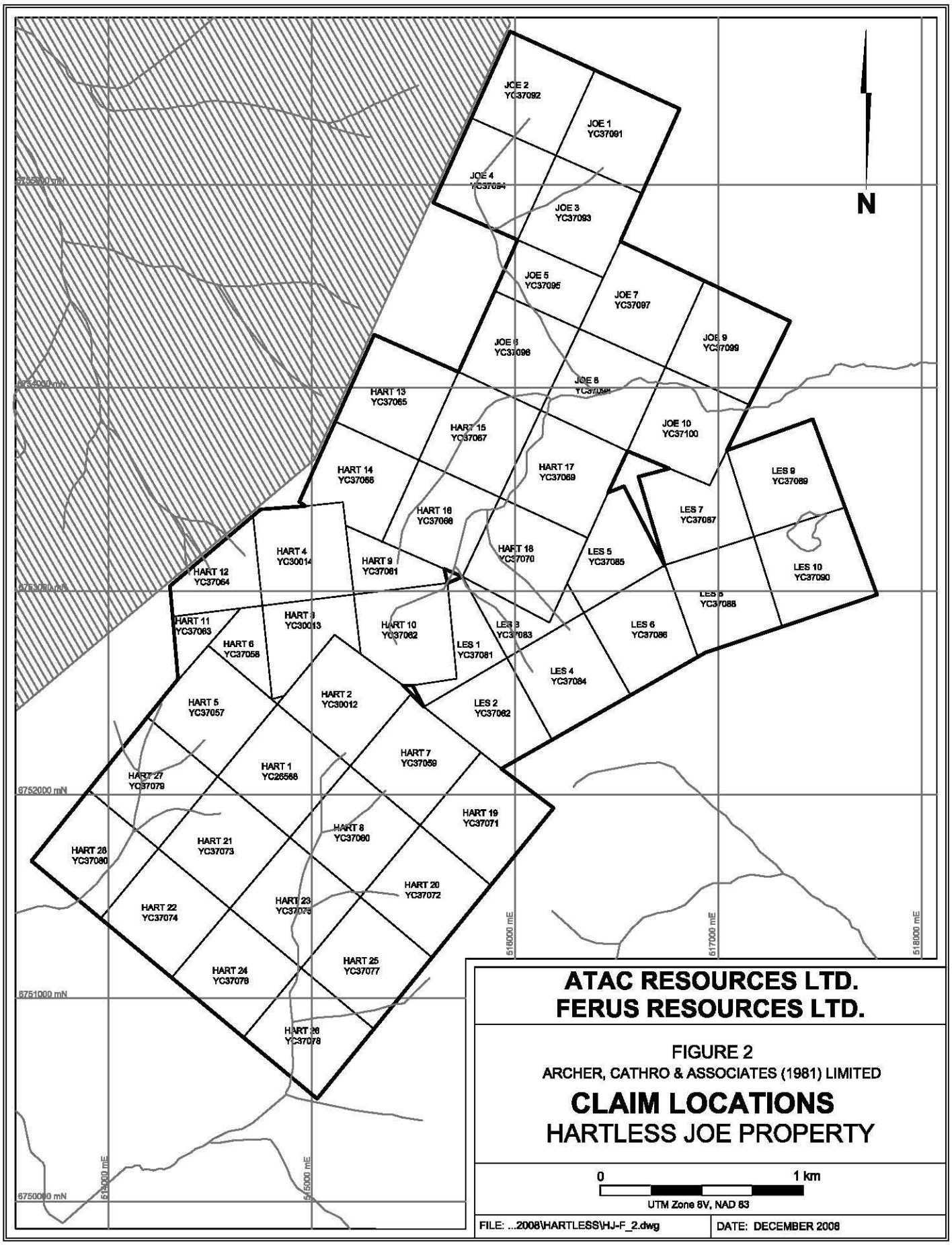
* Expiry dates include 2008 work that has been filed for assessment credit but not yet accepted.

The property is not directly road accessible. The closest road access is the Michie Creek road about 20 km to the south. The 2008 program was done with helicopters based at the Whitehorse Airport. Daily crew and drill support were performed by a Bell 206B operated by Capital Helicopters (1995) Inc. Drill moves including mobilization and demobilization were made by that machine or a Bell 205 operated by Trans North Helicopters. Mobilization and demobilization were done from the Parsons Airstrip, located in the northern part of Whitehorse. All other flights originated from the more centrally located Whitehorse Airport.

HISTORY AND PREVIOUS WORK

The first staking in the vicinity of the Hartless Joe property were the Ben 1-22 claims, which were located by J. Smith at various times between July 1967 and June 1969. The Ace Showing


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



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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS
HARTLESS JOE PROPERTY

FILE: ...2008\HARTLESS\HJ-F_2.dwg

DATE: DECEMBER 2008

was discovered during a 1967 work project. It consists of low sulphide quartz vein float located in a north-facing cirque. Float from 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. Although the geophysical surveys suggested the presence of two gold bearing fissure veins and other possibly significant structures (Deklerk, 2003a), the claims were allowed to expire without receiving additional work.

In 1985, the Geological Survey of Canada conducted reconnaissance-scale stream sediment and water geochemical sampling across NTS map sheet 105D. Samples collected in the vicinity of the Hartless Joe property yielded intermittent, strongly anomalous values for gold and some of its pathfinder elements. Peak values include 1810 ppb gold, 0.4 ppm silver, 120 ppm copper and 244 ppb mercury (Heon, 2003).

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).

In summer 1997, C. Hart of the Yukon Geological Survey discovered the Joe Creek and Grumpy Showings, approximately 1500 m west and southwest of the Ace Showing, respectively. The Joe Creek Showing is a 0.5 to 1m wide vein developed on a splay of the Joe Creek Fault. It consists of banded and massive white quartz with sparsely disseminated pyrite and arsenopyrite. 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 the Hart 1 claim to cover the Grumpy Showing in February 2004 and sold the claim to ATAC in August 2004. Later that year ATAC staked additional claims and conducted one day of helicopter supported soil sampling and prospecting.

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, 2006).

In spring 2006, ATAC optioned the property to New Shoshoni Ventures Ltd, which flew airborne geophysical surveys but did not report results. New Shoshoni terminated the option in spring 2007.

ATAC resumed exploration in summer 2007 with a three phase program consisting of 1) more prospecting and soil geochemistry, 2) helicopter-borne variable-time domain electromagnetic (VTEM) and magnetic surveys and reconnaissance-scale induced polarization (IP) surveys (Eaton, 2008).

Ferus optioned the property in March 2008.

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

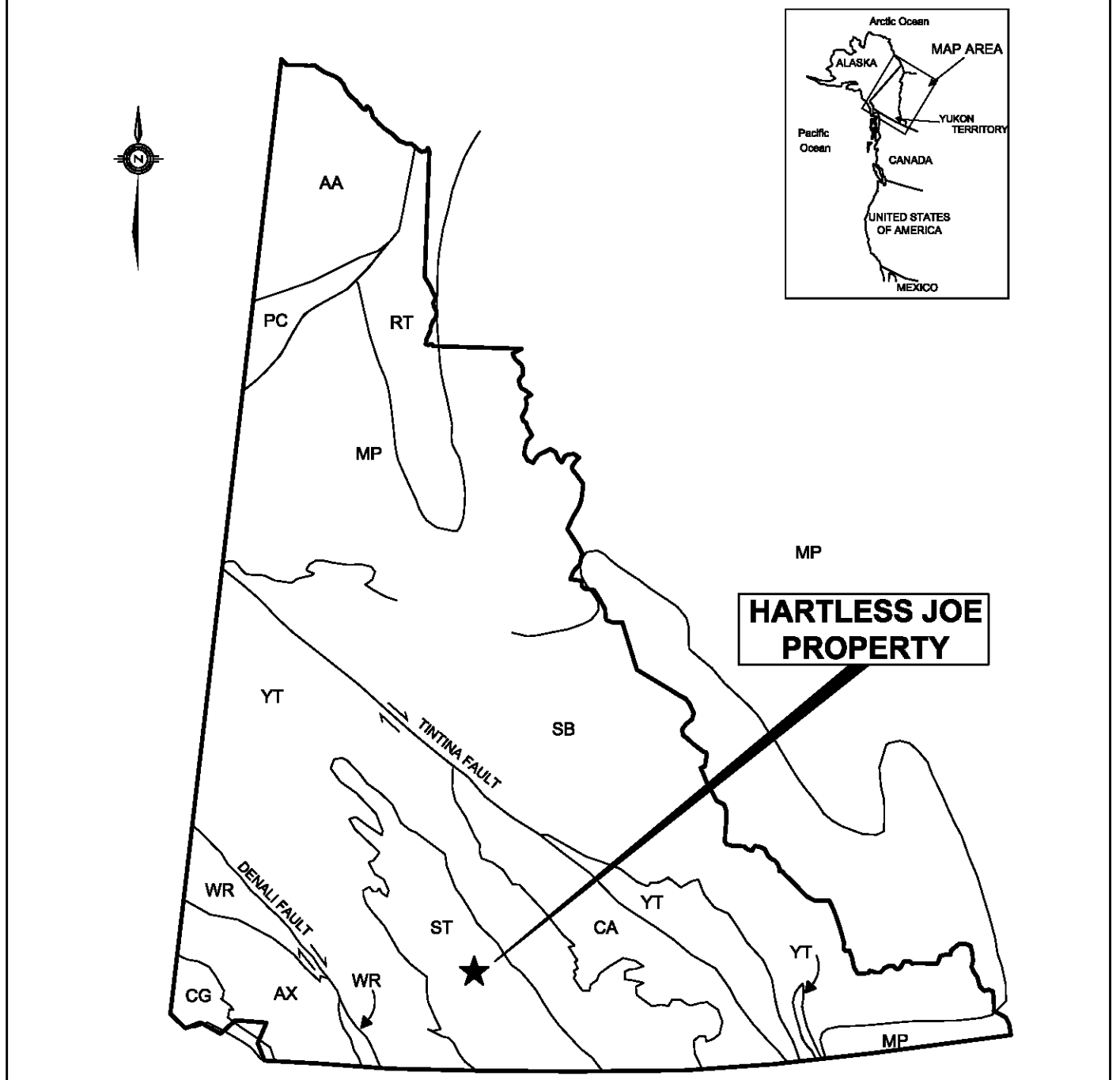
The map sheet containing the property was mapped at 1:50,000 scale by Yukon Geological Survey (Hart and Hunt, 2003).

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).

Mid-Cretaceous intrusions of the Teslin, Whitehorse and Mount McIntyre plutonic suites, and crosscutting dykes and other phases of the Mid-Cretaceous Byng Creek volcanic complex are mapped in the vicinity of the property. An extensive 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 (Figure 4). Aksala Formation



ANCESTRAL NORTH AMERICA

- MP — Mackenzie Platform
- SB — Selwyn Basin
- RT — Richardson Trough

TERRANES
Displaced Continental Margin

- AA — Arctic Alaska
- CA — Cassiar
- PC — Porcupine

Pericratonic Terranes

- YT — Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

- ST — Stikinia / Cache Creek
- AX — Alexander
- WR — Wrangellia
- CG — Chugach

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FIGURE 3

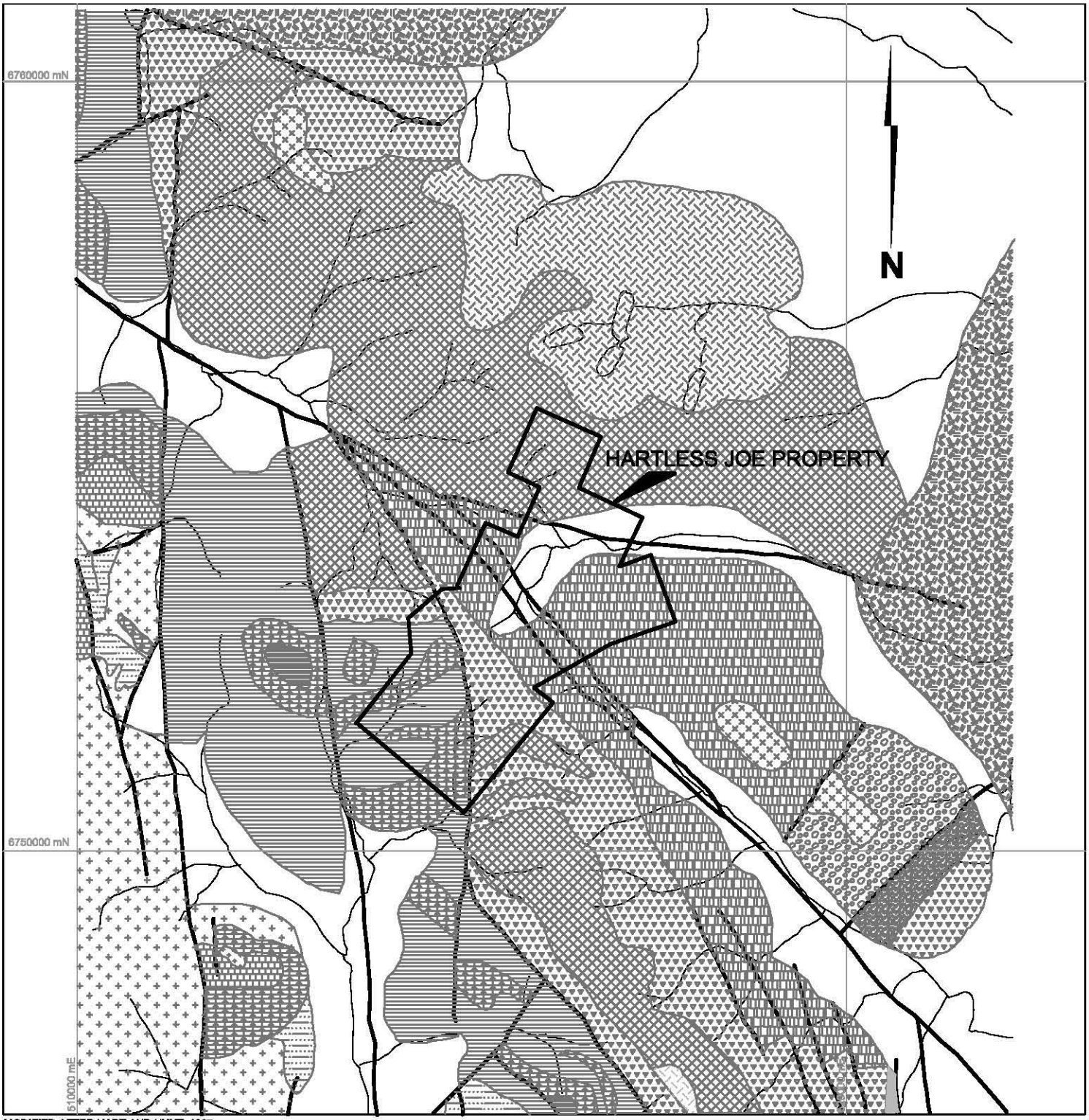
TECTONIC SETTING

HARTLESS JOE PROPERTY

0 100 200 km

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DATE: DECEMBER 2008



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 (LADINIAN)

- mTJM4: cumulate gabbro pyroxenite, anorthosite and diorite, locally, some diabase dykes
- mTJM3: pillowed basalts, minor diabase, pillows tubular and locally with radial, concentric and tortoise shell fracturing
- mTJM2: assemblage of volcaniclastics and sedimentary rocks, mostly turbiditic with significant volcanic and carbonate component
- mTJM1 or mTJM2:pillowed basalt flows with calcite veining and weak pervasive chlorite alteration
- mTJM: pillowed basalts, some pyrite-quartz-calcite weathering

Fault structures

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCAL GEOLOGY

HARTLESS JOE PROPERTY

0 — 5 km

UTM ZONE 8 / NAD 83

FILE: ...HARTLESS JOE/FIGURE 8/.dwg

DATE: DECEMBER 2008

sediments are found within the southern portion of the property. The nearest, large intrusive bodies are the M'Clintock River and M'Clintock Lake plutons, which lie approximately three kilometres to the north and east respectively, and the Cap Creek Pluton, which lies about four kilometres to the west-southwest (Hart and Hunt, 2003). 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 white weathering, resistant massive to poorly bedded, bioclastic and micritic limestone, marble and skarn (Hart and Hunt, 2003). These rocks are Upper Triassic age. They overlie the Joe Mountain Formation or are juxtaposed against it by a series of imbricate faults (Figure 4).

Joe Mountain Formation is Mid-Triassic age. It is subdivided into four units as described in the following paragraphs (Hart and Hunt, 2003).

Unit $mTJM_1$ consists of black-weathering, fine-grained, aphyric, pillowed basalt flows with calcite veining and weak but pervasive chloritic alteration. These pillows are under a package of gritty and limy sedimentary rocks.

Unit $mTJM_2$ consists of a chaotic assemblage of recessive-weathering, volcanogenic sandstone, siltstone, shale and gritty sandstone. It includes limestone or limy beds, and resistant, dark-weathering, chaotic and massive to poorly bedded, heterolithic, diamictite, conglomerate and fragmental or gritty sedimentary rocks.

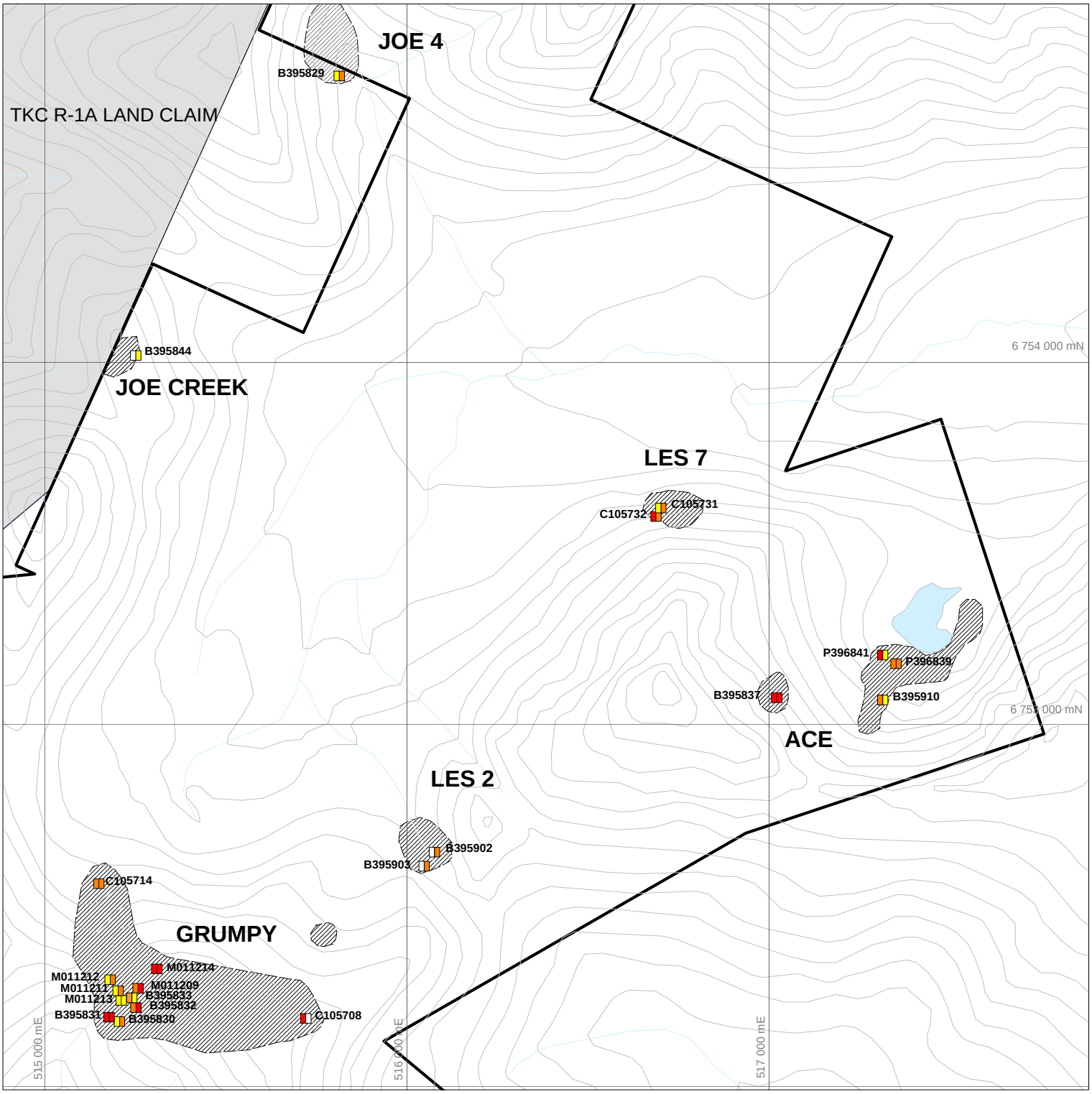
Unit $mTJM_3$, the lowermost volcanic unit, is dominated by dark grey-weathering, generally unaltered, fine grained, and feldspar and pyroxene-phyric, pillowed basalt flows and massive microdiorite. It is locally interbedded with $mTJM_2$.

Unit $mTJM_4$ is a dark-weathering, massive, variably textured, coarse-grained and locally pegmatitic, pyroxene gabbro and diorite. The main style of alteration within mJM_4 features veinlets of calcite, epidote and quartz accompanied by replacement of pyroxene with chlorite and actinolite (Piercey, 2005).

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 the emplacement of narrow intrusive dykes. Air photo 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

Six mineralized zones have been identified on the property (Figure 5). Varying amounts of gold and silver occur in all of the zones, usually with trace to minor amounts of copper, lead and zinc.

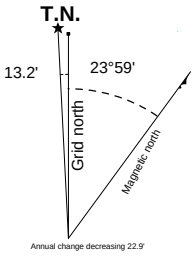


THRESHHOLDS

Au(g/t)	0.5-5	6-50	>50
Ag(g/t)	10-60	61-1000	>1000

Gold geochemistry | Silver geochemistry

Area containing anomalous gold-silver bearing rock samples



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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MINERALIZATION

HARTLESS JOE PROPERTY

0 — 1 km

UTM ZONE 8, NAD 83, 105D/15

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DATE: DECEMBER 2008

Veins are most common but stratigraphically controlled mineralization and silica- and carbonate-healed breccias are also present. All of the showings are categorized as low sulphidation epithermal mineralization.

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 of most veins. 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, 2006.).

Vein mineralization has been documented in six locations on the property, known as the Grumpy, Ace, Joe Creek, Joe 4, Les 2, and Les 7 showings. Only the Ace Showing is exposed in bedrock. Most of the showings consist of mineralized float trains that are believed to be relatively close to their respective sources. The locations of the showings are illustrated on Figure 6. Table I compiles the most significant assay results from the various vein 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
	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

TKC R-1A LAND CLAIM

JOE 4

PROPERTY BOUNDARY

516 000 mE

518 000 mE

6 754 000 mN

6 752 000 mN

2,230

JOE CREEK

500

LES 7

504

ACE

LES 2

513

1,370

GRUMPY

DDH-HJ08-02 & 03

598

DDH-HJ08-01

931

T.N.

13.2'

23°59'

Grid north

Magnetic north

Annual change decreasing 22.9'

Gold (ppb)

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

Area containing anomalous gold-silver bearing rock samples

Fault

Drill hole

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY AND DRILL HOLE LOCATIONS

HARTLESS JOE PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 105D/15

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	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 layering 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 at three showings.

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 from one showing; 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

Regional-scale stream sediment geochemical surveys done in the vicinity of the Hartless Joe property yielded intermittent strongly anomalous values ranging up to 1810 ppb gold, 0.4 ppm silver, 120 ppm copper and 244 ppb mercury (Heon, 2003).

Soil sampling was done by ATAC in 2005 and 2007 over much of the property at varying densities. Relatively close spaced sampling (50 m intervals on lines spaced 100 m apart) was done over an area that is about 1200 m long and 350 to 700 wide. This sampling encompasses the Grumpy, Ace and Les 2 showings and was done on a combination of grid-and contour-controlled lines. A total of about 900 samples were collected during these programs. Analytical techniques, and procedures used to collect samples and mark sample sites were described in previous assessment reports (Wengzynowski, 2008 and Eaton, 2008).

Maps plotting geochemical results for several elements were presented in earlier reports along with sample location maps and certificates of analysis (Wengzynowski 2006 and Eaton 2008). Results are briefly summarized in the following paragraphs.

Isolated high gold values are scattered across the property (Figure 6). The largest cluster of anomalous values occurs in the vicinity of Grumpy and Joe Creek showings. Gold-in-soil values in some areas where well mineralized float was discovered are surprisingly low while many high soil values are not yet explained. The highest gold values from the property came from samples taken just uphill from the Grumpy Showing (1370 ppb) and from a hillside 2 km to the north (2230 ppb), near the Joe Creek 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.

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 CDs containing the digital survey data, in a previous assessment report (Eaton, 2008).

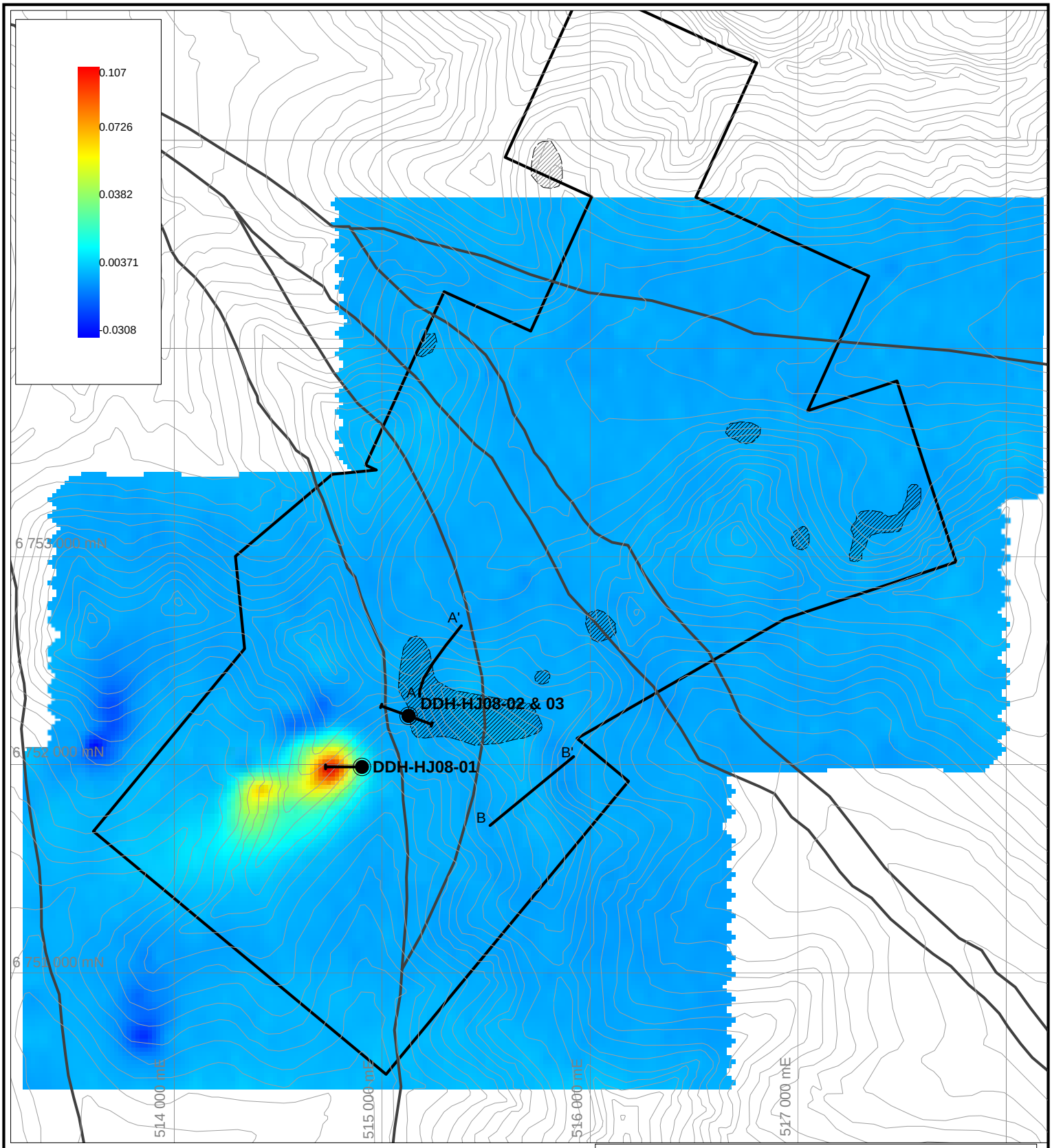
The total field magnetic values at the Hartless Joe property range from 56900 nT to 58400 nT, which is characterized as high activity. Most of the highest values are in areas underlain by mafic volcanic units in the northern and eastern parts of the property. An isolated ovoid high in the southwestern 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.

VTEM response is quiet except for an isolated anomaly in the southwestern part of the property, which is mostly underlain by sediments. The anomaly is about 500 m long and 200 m wide and is weakly conductive (Figures 7 and 8). It 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 and was interpreted to possibly represent a shallowly dipping skarn horizon containing disseminated sulphide minerals.

Induced Polarization

In September 2007, 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. Aurora's report describing work performed, equipment used and results obtained was reproduced, along with a CD containing the digital IP data, in a previous assessment report (Eaton, 2008).

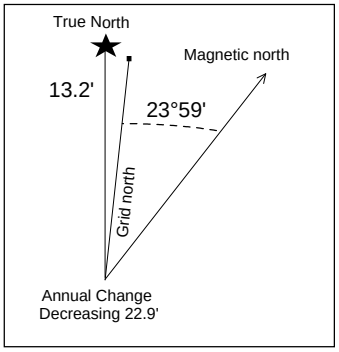
The more westerly line (L4930E) features a large anomaly with low chargeability that is suggestive of dominantly pyritic, stratigraphically controlled mineralization. The highest chargeability reading was obtained at the south end of the line where well mineralized vein float has been discovered. The 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.



Mineralized showing

Fault structures

A — A' / B — B' IP line



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FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

B-FIELD CHANNEL IMAGE WITH TILT DERIVATIVE MAGNETICS

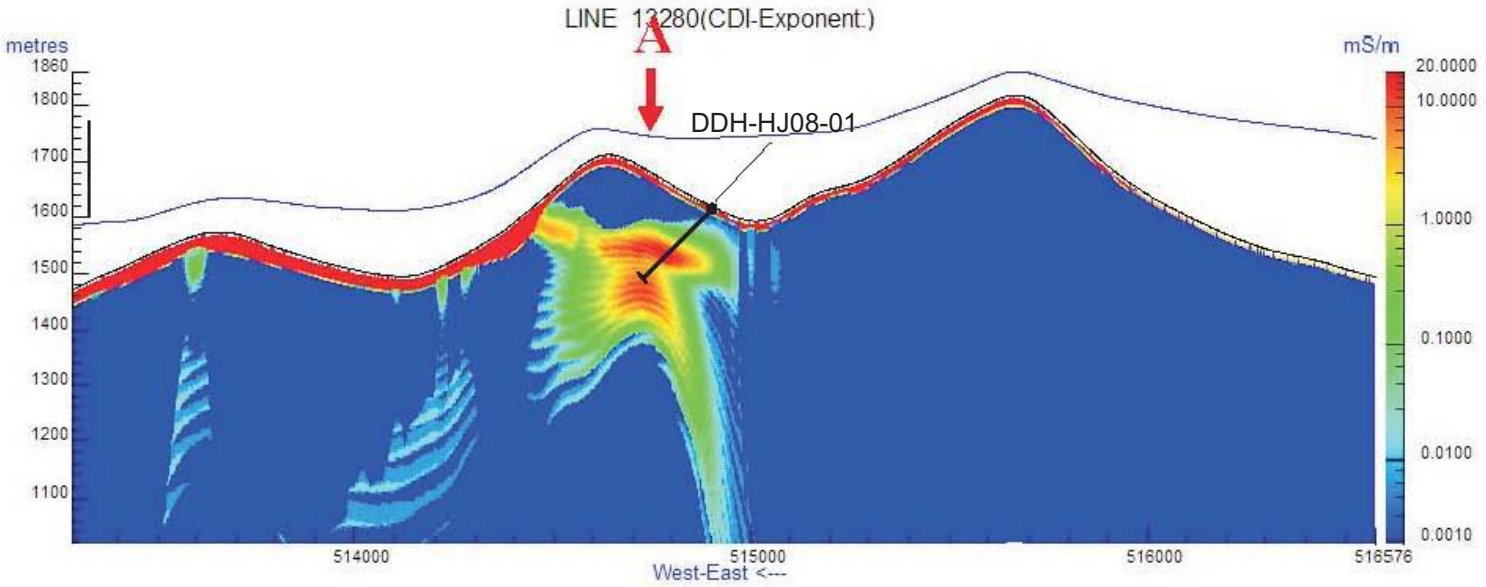
HARTLESS JOE PROPERTY

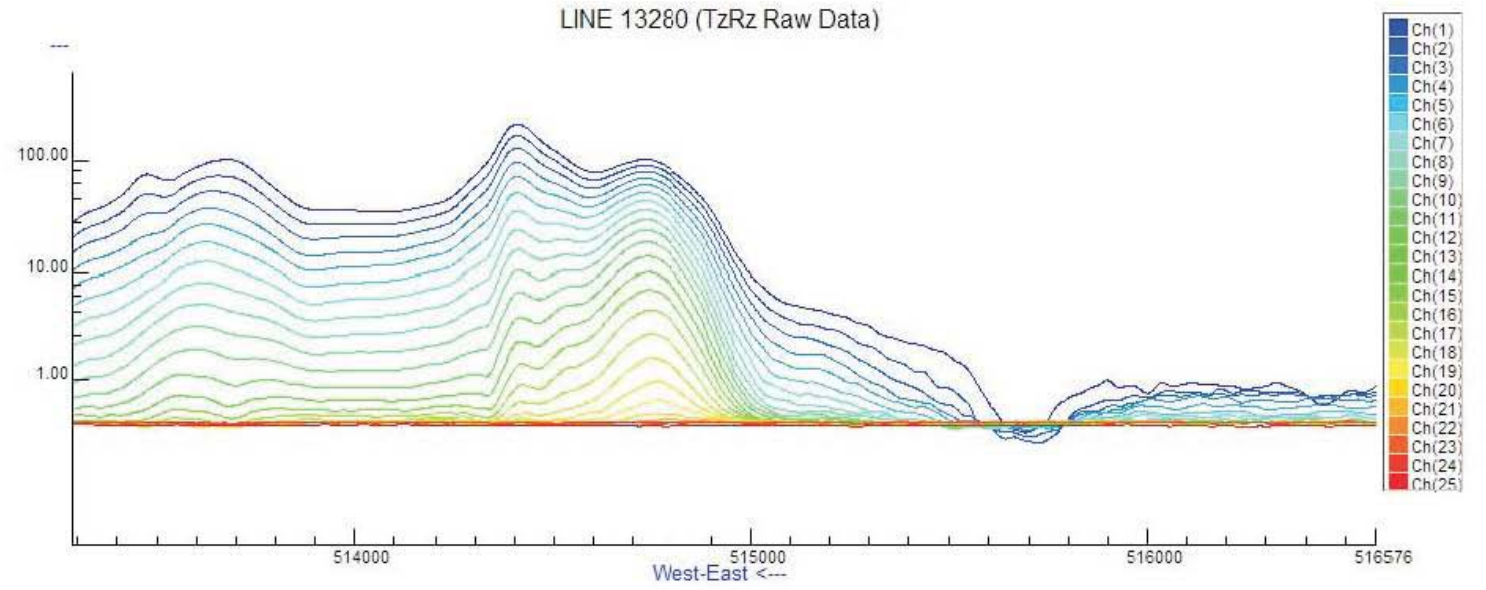
0 0.25 1.5 km

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

FILE: ...2008/HARTLESS

DATE: DECEMBER 2008





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FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CDI SECTION L13280

HARTLESS JOE PROPERTY

FILE: … 2008/HARTLESS/F_18.dwg DECEMBER 2008

DIAMOND DRILLING

General

Drilling was conducted between June 25 and July 10 by Beaudoin Diamond Drilling Ltd. of Courtenay, B.C. A total of 612.2 m were completed in three holes using a helicopter portable, diesel powered JKS 300 drill and BTW equipment. The first hole tested the VTEM anomaly located southwest of the Grumpy Showing (Figures 7 and 8) while the other two holes were drilled in opposite directions from a pad built near the centre of that showing (Figure 5). Weather was unseasonably cold during the drill program, which caused some drill delays due to low waterflow and frozen waterlines. Key data concerning the holes are shown on Table IV.

Table IV - Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth	Dip	Depth (m)
HJ08-01	514903	6751989	1615	270°	-45°	246.89
HJ08-02	515127	6852234	1707	290°	-45°	197.81
HJ08-03	515127	6752234	1707	110°	-45°	167.34

Drill core was flown from the property to Whitehorse and immediately transported to the Archer Cathro exploration complex, where it is now stored. Recovery was measured and the core was geotechnically and geologically logged. Lithologically and mineralogically favourable intervals were divided into two equal portions along a line marked by the geologist using a manual core splitter or a rock saw. One half of the divided core from each mineralized interval was placed in a heavy plastic bag along with a portion of a pre-numbered and water repellent assay tag. The other half was returned to the core box from which it was taken, where another portion of each assay tag was affixed to mark the start of the corresponding sample interval. A total of 114 core samples were collected.

All samples were shipped by commercial carrier to ALS Chemex in North Vancouver, BC, where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split of the crushed material was then pulverized to better than 85% passing 75 microns. Separate splits of the pulverized fraction were analyzed for gold by fire assay and atomic absorption spectroscopy (Au-AA26) and 34 other elements using inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). Certificates of analysis are reported in Appendix II while geochemical and geological logs appear in Appendix III.

Results

Hole HJ08-01 tested the VTEM anomaly identified by ATAC in 2007. It intersected mostly dark grey, fetid limestone, which is cut by numerous narrow dykes and sills. These intrusions are feldspar±quartz porphyry or diorite in composition. Neither type of intrusion has significantly altered the adjacent wallrocks, but pyrite is locally developed. The highest concentration of disseminated, coarse grained pyrite was observed adjacent to a 4 m wide feldspar porphyry dyke near the bottom of the hole. This dyke like most other feldspar porphyry dykes in the hole

contains a few percent disseminated pyrite. Samples of the pyritic limestone and feldspar porphyry returned low values for gold, silver and their pathfinder metals.

Holes HJ08-02 and HJ08-03 were drilled in opposite directions from the same drill pad to provide a section line across part of the Grumpy Zone. A number of felsic dykes were intersected near the collars of each hole. These dykes were up to 30 m wide and all contained minor disseminated pyrite. The holes also cut numerous quartz±carbonate veins containing trace to 15% pyrite. These veinlets were usually 1 to 10 cm wide. Sedimentary rocks were most abundant in the lower part of hole HJ08-02, while volcanic rocks dominate the bottom half of hole HJ08-03, beneath a strong gouge filled fault. Although pyrite is widely dispersed and is locally quite abundant in these holes, only low gold and silver values were obtained. The barren drill core in many ways resembles gold-and-silver-bearing float but is distinguished from it by the absence of key pathfinder minerals including arsenopyrite and galena. Hole HJ08-03 was terminated in a gougy fault zone about 50 m above its target depth. It does not appear to have reached the down-dip projection of gold-and silver rich vein float found in the overlying talus.

DISCUSSION AND CONCLUSIONS

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, but the relative lack of outcrop coupled with thick overburden makes identification of bedrock sources difficult.

The magnetic survey done in 2007 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 was drill tested in 2008 and it was determined it is likely caused by graphitic fractures rather than containing disseminated sulphide mineralization.

Chargeability anomalies, identified by two IP lines in 2007, beneath areas of mineralized float and anomalous soil geochemistry were not drill tested in 2008. IP may prove to be an effective exploration technique, but the steep and rocky terrain found in many parts of the property will likely limit its usefulness.

Although the 2008 drill holes at the Grumpy Zone returned disappointing results, they only tested a small part of the target area and did not adequately explain the presence of soil geochemical anomalies and mineralized float.

Additional diamond drilling is recommended based on the favourable geological setting, widespread evidence of gold- and silver-rich, epithermal-style mineralization. Two holes should test the chargeability anomalies identified by the IP surveys while other holes should be drilled along strike and downdip from holes HJ08-02 and -03. This work should be done from Whitehorse with daily helicopter support.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Doug Eaton, B.Sc. Geology

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Geotech Ltd.

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APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, W. Douglas 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 1980 with a B.Sc. majoring in Geological Sciences.

2. From 1971 to present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.

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

W. Douglas Eaton, B.Sc. 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: 2-OCT-2008
Account: RCM

CERTIFICATE VA08129713

Project: Hartless Joe

P.O. No.: HJ-08-03

This report is for 43 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 12-SEP-2008.

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-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
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-AA26	Ore Grade Au 50g FA AA finish	AAS

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:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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ALS Canada Ltd.

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VANCOUVER BC V6B 1L8

Project: Hartless Joe

Finalized Date: 2-OCT-2008
Account: RCM

CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method	WEI-21	Au-AA26	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
G087311		1.44	0.01	<0.2	2.17	39	<10	520	<0.5	<2	4.87	<0.5	19	48	39	4.59
G087312		1.34	0.01	<0.2	0.78	27	<10	310	<0.5	2	3.29	<0.5	3	7	7	1.22
G087313		4.04	0.01	<0.2	0.71	58	<10	220	<0.5	<2	1.71	<0.5	3	5	25	1.13
G087314		4.41	0.02	<0.2	0.92	195	<10	450	<0.5	<2	1.64	<0.5	2	3	36	0.87
G087315		2.71	<0.01	<0.2	0.81	7	<10	260	<0.5	<2	1.60	<0.5	4	5	85	1.23
G087316		1.41	<0.01	<0.2	3.24	25	<10	100	<0.5	<2	6.19	0.5	20	85	82	4.79
G087317		1.04	<0.01	<0.2	0.09	<2	<10	20	<0.5	<2	19.6	<0.5	1	1	2	0.37
G087318		2.63	<0.01	<0.2	3.15	7	<10	40	<0.5	<2	8.94	<0.5	27	182	50	5.36
G087319		2.93	<0.01	<0.2	2.22	44	<10	80	<0.5	<2	8.53	<0.5	26	145	45	5.42
G087320		1.05	<0.01	<0.2	2.69	55	<10	130	<0.5	<2	6.97	<0.5	35	189	65	5.96
G087321		0.62	0.01	<0.2	1.01	141	<10	200	0.5	<2	8.23	<0.5	25	56	57	4.62
G087322		0.92	<0.01	<0.2	0.96	39	<10	140	<0.5	<2	7.21	<0.5	11	37	32	3.24
G087323		0.47	0.01	<0.2	0.86	50	<10	70	<0.5	<2	7.85	<0.5	12	52	43	3.66
G087324		0.49	<0.01	<0.2	1.48	31	<10	100	<0.5	<2	6.69	<0.5	14	60	58	4.46
G087325		0.76	0.01	1.0	1.62	82	<10	890	<0.5	<2	8.76	<0.5	16	61	55	3.85
G087326		0.81	0.01	<0.2	1.90	17	<10	60	<0.5	<2	6.61	<0.5	24	56	66	5.25
G087327		1.09	<0.01	<0.2	2.83	16	<10	40	<0.5	<2	4.91	<0.5	19	79	77	4.78
G087328		0.84	<0.01	0.4	0.77	80	<10	40	<0.5	2	8.64	1.8	13	56	68	4.04
G087329		2.97	0.01	0.3	1.35	69	<10	110	<0.5	<2	8.53	2.9	13	69	58	3.98
G087330		1.34	<0.01	0.4	1.30	98	<10	40	<0.5	<2	7.16	1.2	24	76	138	4.53
G087331		1.22	<0.01	<0.2	1.49	94	<10	80	<0.5	<2	6.83	0.7	21	71	69	4.17
G087332		1.60	<0.01	0.2	1.01	60	<10	110	<0.5	<2	8.92	<0.5	13	50	44	3.88
G087333		2.65	<0.01	<0.2	2.95	32	<10	50	<0.5	2	6.89	<0.5	22	176	71	4.70
G087334		2.77	<0.01	0.2	3.19	15	<10	110	<0.5	<2	4.91	<0.5	23	181	67	4.79
G087335		1.94	<0.01	<0.2	1.30	17	<10	250	<0.5	<2	2.81	<0.5	7	28	8	1.57
G087336		3.90	<0.01	<0.2	0.76	5	<10	230	<0.5	<2	1.74	<0.5	2	3	1	0.87
G087337		3.20	<0.01	<0.2	0.93	4	<10	290	<0.5	<2	1.97	<0.5	2	6	3	1.03
G087338		5.19	<0.01	<0.2	1.28	30	<10	240	<0.5	<2	2.90	<0.5	12	20	11	2.12
G087339		3.17	<0.01	<0.2	1.25	9	<10	230	<0.5	<2	1.92	<0.5	3	4	7	1.17
G087340		1.23	<0.01	<0.2	0.09	<2	<10	20	<0.5	<2	19.0	<0.5	1	1	1	0.37
G087341		1.27	<0.01	<0.2	0.98	28	<10	200	<0.5	<2	3.29	<0.5	7	7	15	1.97
G087342		3.26	<0.01	<0.2	1.23	135	<10	110	0.6	<2	7.11	<0.5	34	50	49	5.97
G087343		2.01	0.01	<0.2	2.88	166	<10	70	<0.5	<2	6.66	<0.5	30	115	50	6.88
G087344		1.41	<0.01	<0.2	2.84	44	<10	170	<0.5	2	5.74	<0.5	34	123	54	6.85
G087345		1.27	0.01	<0.2	1.68	43	<10	60	<0.5	<2	6.61	<0.5	20	99	44	5.82
G087346		1.30	0.01	0.2	1.45	108	<10	70	<0.5	2	5.42	<0.5	26	91	51	6.43
G087347		3.80	0.01	<0.2	1.28	87	<10	250	0.5	2	5.76	<0.5	32	82	54	6.10
G087348		5.47	<0.01	0.4	3.28	25	<10	40	<0.5	2	5.48	1.8	33	146	143	6.86
G087349		6.15	<0.01	<0.2	4.57	3	<10	160	<0.5	2	3.83	<0.5	31	201	94	7.75
G087350		2.63	0.01	<0.2	4.32	5	<10	810	<0.5	<2	6.78	<0.5	28	180	64	6.18

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VANCOUVER BC V6B 1L8

Project: Hartless Joe

Finalized Date: 2-OCT-2008
Account: RCM

CERTIFICATE OF ANALYSIS VA08129713

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	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
G087311		<10	<1	0.16	<10	2.23	792	<1	0.04	32	530	2	0.03	<2	15	221
G087312		<10	<1	0.36	10	1.37	346	<1	0.05	1	270	22	0.15	2	1	81
G087313		<10	<1	0.34	20	0.39	252	3	0.05	1	310	19	0.02	3	1	82
G087314		<10	<1	0.46	20	0.24	223	1	0.08	<1	310	12	0.04	<2	1	68
G087315		<10	<1	0.34	20	0.41	263	12	0.08	1	300	17	0.04	4	2	114
G087316		<10	<1	0.25	<10	2.78	891	<1	0.04	37	370	2	0.26	<2	19	263
G087317		<10	<1	0.04	<10	11.95	170	<1	0.02	<1	360	<2	<0.01	2	<1	56
G087318		10	1	0.05	<10	2.77	1875	<1	0.07	77	580	<2	0.24	<2	18	138
G087319		<10	<1	0.08	<10	3.06	1520	<1	0.04	72	560	<2	0.13	<2	18	240
G087320		10	<1	0.09	<10	2.77	1410	<1	0.06	90	830	<2	0.19	<2	24	222
G087321		<10	<1	0.29	<10	3.56	1565	<1	0.04	59	490	<2	0.09	2	18	300
G087322		<10	<1	0.22	<10	2.91	943	<1	0.03	29	240	<2	0.09	3	9	310
G087323		<10	<1	0.21	<10	3.14	1175	1	0.03	27	380	<2	0.05	<2	11	266
G087324		<10	<1	0.21	<10	2.95	1260	<1	0.04	30	200	<2	0.02	<2	20	293
G087325		<10	<1	0.30	<10	2.58	1225	<1	0.05	40	390	2	0.09	3	15	466
G087326		<10	<1	0.22	<10	3.22	1250	<1	0.03	38	180	<2	0.01	2	27	296
G087327		<10	<1	0.20	<10	2.99	986	<1	0.05	35	180	<2	0.10	<2	26	175
G087328		<10	<1	0.17	<10	3.59	1385	4	0.02	42	800	9	0.15	<2	14	265
G087329		<10	<1	0.30	<10	3.51	1440	3	0.03	55	900	8	0.36	2	15	232
G087330		<10	<1	0.20	<10	2.65	1160	4	0.03	61	590	4	0.46	2	18	254
G087331		<10	<1	0.29	<10	2.21	889	2	0.04	62	430	<2	0.20	2	19	316
G087332		<10	<1	0.21	<10	3.40	1170	1	0.03	37	340	<2	0.08	2	14	397
G087333		10	<1	0.16	<10	3.00	1010	1	0.04	70	290	<2	0.15	2	22	294
G087334		10	<1	0.10	<10	3.28	955	2	0.05	69	310	2	0.29	<2	22	218
G087335		<10	<1	0.48	30	0.62	403	1	0.10	15	370	14	0.03	<2	4	160
G087336		<10	<1	0.39	30	0.27	226	<1	0.10	1	400	15	0.04	<2	1	107
G087337		<10	<1	0.46	40	0.32	267	<1	0.11	1	450	12	0.06	<2	1	123
G087338		<10	<1	0.49	30	1.00	446	<1	0.09	26	570	12	0.09	<2	5	143
G087339		<10	<1	0.49	40	0.61	308	<1	0.06	2	460	15	0.08	<2	1	83
G087340		<10	<1	0.05	<10	11.65	176	<1	0.02	<1	350	<2	<0.01	2	<1	61
G087341		<10	<1	0.45	30	1.08	477	<1	0.07	12	540	30	0.16	2	3	150
G087342		<10	<1	0.45	<10	3.07	1165	1	0.03	88	1010	3	0.20	7	22	357
G087343		10	<1	0.18	<10	3.69	1165	<1	0.03	77	810	2	0.13	3	21	360
G087344		10	<1	0.16	<10	3.68	1175	<1	0.03	84	1020	<2	0.10	<2	18	389
G087345		<10	<1	0.18	<10	2.96	1500	<1	0.03	63	620	<2	0.16	2	18	257
G087346		<10	<1	0.28	<10	3.06	1050	<1	0.02	73	610	<2	0.13	2	20	228
G087347		<10	<1	0.25	<10	3.13	1125	<1	0.03	82	600	2	0.06	2	19	289
G087348		10	<1	0.21	<10	3.85	1055	<1	0.03	88	520	26	0.10	<2	16	397
G087349		10	<1	0.15	<10	4.50	984	<1	0.04	94	500	3	0.10	3	20	175
G087350		10	<1	0.12	<10	3.80	1075	<1	0.03	88	480	<2	0.34	3	19	299

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

Project: Hartless Joe

Finalized Date: 2-OCT-2008
Account: RCM

CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
G087311		<20	<0.01	<10	<10	120	<10	73
G087312		<20	<0.01	<10	<10	5	<10	54
G087313		<20	<0.01	<10	<10	6	<10	30
G087314		<20	<0.01	<10	<10	3	<10	24
G087315		<20	<0.01	<10	<10	15	<10	30
G087316		<20	0.02	<10	<10	158	<10	92
G087317		<20	<0.01	<10	<10	2	<10	13
G087318		<20	0.18	<10	<10	168	<10	65
G087319		<20	0.01	<10	<10	150	<10	62
G087320		<20	0.01	<10	<10	184	<10	74
G087321		<20	<0.01	<10	<10	82	<10	82
G087322		<20	<0.01	<10	<10	43	<10	53
G087323		<20	<0.01	<10	<10	58	<10	65
G087324		<20	<0.01	<10	<10	94	<10	62
G087325		<20	<0.01	<10	<10	83	10	67
G087326		<20	<0.01	<10	<10	120	<10	93
G087327		<20	<0.01	<10	<10	132	<10	102
G087328		<20	<0.01	<10	<10	134	<10	166
G087329		<20	<0.01	<10	<10	156	<10	141
G087330		<20	<0.01	<10	<10	132	<10	135
G087331		<20	<0.01	<10	<10	108	<10	117
G087332		<20	<0.01	<10	<10	79	<10	80
G087333		<20	<0.01	<10	<10	162	<10	86
G087334		<20	0.01	<10	<10	195	<10	122
G087335		<20	<0.01	<10	<10	34	<10	42
G087336		<20	<0.01	<10	<10	4	<10	23
G087337		20	<0.01	<10	<10	6	<10	22
G087338		<20	<0.01	<10	<10	41	<10	38
G087339		20	<0.01	<10	<10	6	<10	24
G087340		<20	<0.01	<10	<10	3	<10	13
G087341		<20	<0.01	<10	<10	14	<10	35
G087342		<20	<0.01	<10	<10	89	<10	90
G087343		<20	0.01	<10	<10	170	<10	87
G087344		<20	<0.01	<10	<10	208	<10	105
G087345		<20	<0.01	<10	<10	129	<10	80
G087346		<20	<0.01	<10	<10	137	<10	71
G087347		<20	<0.01	<10	<10	126	<10	82
G087348		<20	<0.01	<10	<10	162	<10	133
G087349		<20	0.01	<10	<10	181	<10	103
G087350		<20	0.26	<10	<10	180	<10	70

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Project: Hartless Joe

Finalized Date: 2-OCT-2008
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CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method	WEI-21	Au-AA26	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
C107910		1.56	<0.01	<0.2	3.22	11	<10	10	<0.5	<2	7.07	<0.5	29	184	51	4.91
C107911		0.72	<0.01	0.2	2.81	9	<10	20	<0.5	<2	4.61	<0.5	25	180	95	4.29
C107912		0.55	<0.01	<0.2	4.53	20	<10	10	<0.5	<2	6.34	<0.5	31	219	61	6.31

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CERTIFICATE OF ANALYSIS VA08129713

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	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
C107910		10	<1	0.06	<10	2.89	1135	<1	0.05	94	500	<2	0.10	4	13	98
C107911		10	<1	0.04	<10	2.61	699	<1	0.06	84	470	<2	0.10	2	15	90
C107912		10	<1	0.02	<10	4.11	1075	<1	0.03	92	600	<2	0.03	2	24	129

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CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
C107910		<20	0.33	<10	<10	177	<10	65
C107911		<20	0.44	<10	<10	180	<10	58
C107912		<20	0.32	<10	<10	251	<10	73

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Finalized Date: 27-SEP-2008
Account: RCM

CERTIFICATE VA08126562

Project: HARTLESS JOE

P.O. No.: HJ-08-01, HJ-08-02

This report is for 71 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-SEP-2008.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

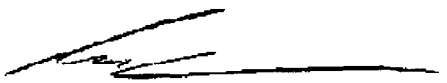
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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: 

Colin Ramshaw, Vancouver Laboratory Manager

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Project: HARTLESS JOE

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CERTIFICATE OF ANALYSIS VA08126562

Sample Description	Method	WEI-21	Au-AA26	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
G004351		3.74	0.01	<0.2	0.30	5	<10	60	<0.5	<2	>25.0	<0.5	2	6	9	0.65
G004352		4.22	<0.01	<0.2	1.41	5	<10	260	<0.5	<2	3.78	<0.5	9	22	11	2.01
G004353		3.26	<0.01	<0.2	1.42	3	<10	220	<0.5	<2	3.66	<0.5	9	23	19	2.03
G004354		5.72	0.01	<0.2	1.65	6	<10	120	<0.5	<2	11.15	<0.5	8	15	38	2.18
G004355		1.98	0.01	<0.2	3.40	18	<10	90	<0.5	<2	5.76	<0.5	21	205	68	5.11
G004356		1.24	0.01	<0.2	0.34	4	<10	80	<0.5	<2	1.53	<0.5	1	6	10	0.45
G004357		4.04	0.01	<0.2	0.51	4	<10	110	<0.5	<2	1.27	<0.5	2	11	8	0.69
G004358		5.18	<0.01	0.2	0.35	3	<10	120	<0.5	<2	1.40	<0.5	1	2	11	0.59
G004359		5.06	<0.01	<0.2	0.33	3	<10	140	<0.5	<2	1.47	<0.5	1	3	5	0.62
G004360		5.70	<0.01	<0.2	0.28	<2	<10	120	<0.5	<2	1.19	<0.5	<1	3	7	0.39
G004361		2.34	<0.01	0.3	0.36	5	<10	90	<0.5	<2	1.31	<0.5	1	5	10	0.45
G004362		2.30	<0.01	0.3	3.66	27	<10	60	<0.5	<2	6.77	<0.5	21	212	76	5.44
G004363		2.40	<0.01	<0.2	2.09	37	<10	70	<0.5	<2	6.87	0.9	18	135	60	4.20
G004364		1.70	<0.01	<0.2	0.27	4	<10	850	<0.5	<2	2.13	<0.5	1	4	14	1.09
G004365		1.32	<0.01	0.2	0.32	5	<10	90	<0.5	<2	2.14	<0.5	2	2	6	1.01
G004367		1.38	0.01	<0.2	0.31	6	<10	440	<0.5	<2	2.13	<0.5	2	2	9	1.26
G004368		2.30	<0.01	0.2	1.01	47	<10	200	<0.5	<2	5.96	2.0	16	15	83	4.79
G004369		2.48	<0.01	0.2	3.57	14	<10	30	<0.5	<2	3.74	<0.5	23	17	31	6.91
G004370		0.50	<0.01	<0.2	0.30	4	<10	70	<0.5	<2	1.66	<0.5	3	4	1	0.97
G004371		1.22	<0.01	<0.2	0.67	5	<10	60	<0.5	<2	2.04	<0.5	4	15	6	1.25
G004372		1.18	<0.01	0.2	4.35	30	<10	30	<0.5	<2	3.98	<0.5	26	222	94	6.44
G004373		2.64	<0.01	<0.2	4.35	22	<10	190	0.5	<2	6.51	<0.5	35	154	42	8.06
G004374		2.02	<0.01	0.2	0.62	5	<10	90	<0.5	<2	1.94	<0.5	4	14	10	1.35
G004375		4.96	<0.01	<0.2	0.40	3	<10	100	<0.5	<2	1.45	<0.5	2	5	10	0.75
G004376		5.42	<0.01	0.2	0.38	3	<10	110	<0.5	<2	1.86	<0.5	2	3	17	0.93
G004377		2.58	<0.01	<0.2	0.58	<2	<10	110	<0.5	<2	1.74	<0.5	2	3	2	0.86
G004378		2.42	0.01	<0.2	0.59	<2	<10	120	<0.5	<2	1.87	<0.5	2	3	1	0.86
G004379		5.46	<0.01	<0.2	0.37	3	<10	110	<0.5	<2	1.70	<0.5	2	3	<1	0.81
G004380		4.98	<0.01	<0.2	0.41	3	<10	110	<0.5	<2	1.79	<0.5	2	2	3	0.83
G004381		5.04	<0.01	<0.2	1.08	9	<10	110	<0.5	<2	2.74	<0.5	8	33	28	2.15
G004382		0.98	0.01	0.2	4.35	6	<10	30	<0.5	<2	5.94	<0.5	37	171	54	7.65
G004383		2.14	0.01	<0.2	0.43	5	<10	110	<0.5	<2	2.48	<0.5	3	5	10	0.91
G004384		3.46	<0.01	<0.2	0.52	2	<10	90	<0.5	<2	1.82	<0.5	3	5	3	0.83
G004385		2.84	0.01	<0.2	0.74	2	<10	90	<0.5	<2	2.42	<0.5	5	17	3	1.34
G004386		1.62	0.01	0.9	0.75	40	<10	10	<0.5	<2	3.11	<0.5	6	39	362	4.96
G004387		5.84	0.08	0.6	1.30	54	<10	30	<0.5	<2	4.00	<0.5	10	53	118	8.69
G004388		1.80	<0.01	<0.2	4.54	8	<10	30	<0.5	<2	7.32	<0.5	34	250	48	6.99
G004389		0.82	<0.01	<0.2	0.06	2	<10	50	<0.5	<2	20.3	<0.5	2	8	3	0.44
G004390		5.38	0.01	<0.2	4.29	2	<10	10	<0.5	<2	7.74	<0.5	31	295	33	5.70
G004391		4.62	<0.01	<0.2	4.57	3	<10	20	<0.5	<2	7.05	<0.5	33	259	38	5.69

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CERTIFICATE OF ANALYSIS VA08126562

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	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
G004351		<10	<1	0.04	<10	0.82	184	1	0.03	4	440	2	0.6	<2	2	1270
G004352		10	<1	0.14	20	1.17	397	1	0.08	15	1010	33	0.41	<2	3	300
G004353		10	<1	0.12	20	1.18	390	1	0.08	14	1010	15	0.41	<2	3	229
G004354		10	<1	0.15	10	1.51	283	<1	0.04	13	680	7	0.96	<2	3	998
G004355		10	<1	0.12	<10	2.82	950	1	0.05	64	270	3	0.13	<2	22	191
G004356		<10	<1	0.19	10	0.07	172	<1	0.06	1	80	10	0.03	<2	1	85
G004357		<10	<1	0.22	10	0.15	193	<1	0.07	4	150	12	0.03	<2	1	81
G004358		<10	<1	0.20	20	0.03	172	<1	0.07	<1	200	10	0.03	<2	1	84
G004359		<10	<1	0.21	20	0.07	187	<1	0.07	<1	190	10	0.04	<2	1	106
G004360		<10	<1	0.19	10	0.04	162	<1	0.06	<1	130	11	0.04	<2	<1	89
G004361		<10	<1	0.21	10	0.08	157	<1	0.06	2	80	17	0.05	<2	1	73
G004362		10	<1	0.08	<10	3.27	891	1	0.05	76	280	3	0.25	<2	22	251
G004363		10	<1	0.10	<10	2.14	782	1	0.05	63	350	3	0.43	<2	16	310
G004364		<10	<1	0.13	10	0.44	254	<1	0.05	2	220	6	0.05	<2	1	81
G004365		<10	<1	0.16	10	0.10	234	<1	0.05	2	230	8	0.04	<2	1	53
G004367		<10	<1	0.17	10	0.55	289	<1	0.05	2	260	7	0.06	<2	1	79
G004368		<10	<1	0.15	<10	1.85	844	6	0.04	26	830	10	0.36	2	13	206
G004369		10	1	0.02	<10	2.62	1195	<1	0.06	5	550	2	0.10	<2	26	148
G004370		<10	<1	0.17	10	0.28	287	<1	0.05	3	210	7	0.05	<2	1	81
G004371		<10	<1	0.14	10	0.46	266	1	0.06	5	210	10	0.05	<2	3	88
G004372		10	<1	0.06	<10	3.62	892	<1	0.06	53	170	2	0.12	<2	26	147
G004373		20	<1	0.09	<10	3.48	1155	3	0.05	95	960	3	0.07	<2	24	239
G004374		<10	<1	0.19	10	0.41	284	<1	0.07	7	240	46	0.03	<2	2	88
G004375		<10	<1	0.21	10	0.13	188	<1	0.07	2	240	17	0.05	<2	1	82
G004376		<10	<1	0.21	20	0.22	222	<1	0.07	2	280	13	0.05	<2	1	93
G004377		<10	<1	0.16	20	0.22	201	<1	0.07	2	320	7	0.04	<2	1	97
G004378		<10	<1	0.19	20	0.22	218	<1	0.07	2	340	8	0.07	<2	1	100
G004379		<10	<1	0.18	20	0.16	230	<1	0.07	2	330	11	0.08	<2	1	81
G004380		<10	<1	0.19	20	0.13	215	<1	0.07	1	330	9	0.05	<2	1	78
G004381		<10	<1	0.18	20	0.62	407	1	0.05	21	560	8	0.05	<2	4	105
G004382		20	<1	0.03	10	3.20	1280	<1	0.03	103	1310	2	0.04	<2	24	190
G004383		<10	<1	0.19	20	0.14	245	<1	0.05	3	400	13	0.03	<2	1	105
G004384		<10	<1	0.18	20	0.17	192	<1	0.05	4	420	8	0.01	<2	1	76
G004385		<10	<1	0.16	20	0.34	258	1	0.05	10	460	7	0.02	<2	2	99
G004386		<10	<1	0.01	<10	0.51	454	8	0.02	21	290	7	3.70	<2	4	92
G004387		<10	<1	0.02	<10	0.83	776	11	0.02	34	490	3	5.38	<2	7	99
G004388		10	<1	0.04	<10	3.51	1435	<1	0.03	113	540	<2	0.05	<2	23	135
G004389		<10	<1	0.02	<10	12.15	209	<1	0.01	1	270	<2	<0.01	<2	<1	59
G004390		10	<1	0.03	<10	4.07	1405	<1	0.03	104	480	<2	0.14	<2	14	116
G004391		10	<1	0.04	<10	4.71	1190	<1	0.03	106	440	<2	0.10	<2	13	114

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VANCOUVER BC V6B 1L8

Project: HARTLESS JOE

Finalized Date: 27-SEP-2008
Account: RCM

CERTIFICATE OF ANALYSIS VA08126562

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
G004351		<20	<0.01	<10	<10	6	<10	24
G004352		<20	<0.01	<10	<10	25	<10	60
G004353		<20	0.01	<10	<10	27	<10	43
G004354		<20	<0.01	<10	<10	21	<10	65
G004355		<20	0.01	<10	<10	176	<10	125
G004356		<20	<0.01	<10	<10	4	<10	12
G004357		<20	<0.01	<10	<10	10	<10	21
G004358		<20	<0.01	<10	<10	1	<10	15
G004359		<20	<0.01	<10	<10	1	<10	15
G004360		<20	<0.01	<10	<10	<1	<10	11
G004361		<20	<0.01	<10	<10	4	<10	12
G004362		<20	0.01	<10	<10	179	<10	108
G004363		<20	<0.01	<10	<10	133	<10	108
G004364		<20	<0.01	<10	<10	4	<10	15
G004365		<20	<0.01	<10	<10	2	<10	19
G004367		<20	<0.01	<10	<10	3	<10	23
G004368		<20	<0.01	<10	<10	95	<10	151
G004369		<20	0.01	<10	<10	271	<10	67
G004370		<20	<0.01	<10	<10	7	<10	27
G004371		<20	<0.01	<10	<10	26	<10	36
G004372		<20	0.02	<10	<10	240	<10	83
G004373		<20	0.02	<10	<10	268	<10	110
G004374		<20	<0.01	<10	<10	20	<10	36
G004375		<20	<0.01	<10	<10	5	<10	30
G004376		<20	<0.01	<10	<10	4	<10	30
G004377		<20	<0.01	<10	<10	5	<10	23
G004378		<20	<0.01	<10	<10	4	<10	26
G004379		<20	<0.01	<10	<10	2	<10	27
G004380		<20	<0.01	<10	<10	2	<10	23
G004381		<20	<0.01	<10	<10	48	<10	51
G004382		<20	0.04	<10	<10	238	<10	104
G004383		<20	<0.01	<10	<10	6	<10	29
G004384		<20	<0.01	<10	<10	7	<10	23
G004385		<20	<0.01	<10	<10	25	<10	28
G004386		<20	<0.01	<10	<10	48	<10	27
G004387		<20	0.04	<10	<10	88	<10	44
G004388		<20	0.12	<10	<10	210	<10	68
G004389		<20	<0.01	<10	<10	7	<10	18
G004390		<20	0.32	<10	<10	179	<10	64
G004391		<20	0.26	<10	<10	167	<10	71

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Project: HARTLESS JOE

Finalized Date: 27-SEP-2008
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CERTIFICATE OF ANALYSIS VA08126562

Sample Description	Method	WEI-21	Au-AA26	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
G004392		1.02	0.01	<0.2	0.73	<2	<10	90	<0.5	<2	2.48	<0.5	4	22	33	1.07
G004393		4.80	<0.01	<0.2	0.68	<2	<10	120	<0.5	<2	2.02	<0.5	3	14	9	0.96
G004394		2.22	<0.01	<0.2	0.54	<2	<10	100	<0.5	<2	1.95	<0.5	2	5	3	0.76
G004395		2.84	<0.01	<0.2	4.37	4	<10	10	<0.5	<2	6.00	<0.5	31	244	25	5.67
G004396		1.38	0.01	<0.2	4.21	3	<10	10	<0.5	<2	6.65	<0.5	29	234	28	5.33
G004397		1.94	<0.01	0.2	4.44	2	<10	10	<0.5	<2	7.07	<0.5	33	237	36	5.66
G004398		1.50	<0.01	<0.2	0.71	2	<10	30	<0.5	<2	3.68	<0.5	4	32	19	1.14
G004399		2.90	0.01	<0.2	1.09	8	<10	90	<0.5	<2	2.63	<0.5	5	9	14	1.67
H237511		1.68	<0.01	0.3	3.18	8	<10	90	<0.5	<2	4.80	<0.5	25	15	124	6.53
H237512		4.70	<0.01	0.2	1.34	4	<10	140	0.5	<2	2.08	<0.5	9	21	46	3.23
H237513		3.56	0.01	0.2	1.31	<2	<10	80	0.5	<2	1.72	<0.5	9	24	57	2.90
H237514		4.88	<0.01	0.2	1.15	<2	<10	170	0.6	<2	2.34	<0.5	10	22	69	2.89
H237515		4.06	<0.01	<0.2	1.53	<2	<10	80	0.5	<2	1.84	<0.5	10	31	72	2.96
H237516		4.70	<0.01	0.2	1.54	<2	<10	90	0.5	<2	1.83	<0.5	10	32	91	2.87
H237517		5.32	<0.01	<0.2	1.49	<2	<10	60	0.5	<2	2.00	<0.5	10	31	114	2.88
H237518		5.44	<0.01	<0.2	1.45	<2	<10	80	<0.5	<2	1.86	<0.5	10	33	27	2.76
H237519		0.68	<0.01	<0.2	2.10	<2	<10	110	0.5	<2	2.99	<0.5	13	62	9	3.68
H237520		3.18	<0.01	0.2	2.92	4	<10	220	0.5	<2	3.55	<0.5	23	109	22	5.26
H237521		1.50	0.01	<0.2	1.52	2	<10	80	0.5	<2	3.41	<0.5	11	28	6	3.15
H237522		2.10	0.01	<0.2	1.65	<2	<10	60	0.5	<2	2.36	<0.5	13	42	5	3.33
H237523		3.38	<0.01	0.2	2.94	<2	<10	90	<0.5	<2	3.65	<0.5	26	144	47	5.82
H237524		2.42	<0.01	<0.2	4.28	<2	<10	240	0.6	<2	3.75	<0.5	26	147	37	8.02
H237525		2.10	0.01	<0.2	1.49	<2	<10	210	<0.5	<2	1.95	<0.5	10	39	12	3.03
H237526		0.44	0.01	0.3	3.07	12	<10	50	0.5	<2	5.56	<0.5	36	168	56	6.91
H237527		5.18	<0.01	0.2	3.88	6	<10	140	0.5	<2	3.56	<0.5	34	149	108	7.23
H237528		2.46	0.01	<0.2	3.58	7	<10	170	0.5	<2	5.33	<0.5	37	168	69	7.07
H237529		1.20	<0.01	<0.2	1.43	2	<10	40	<0.5	<2	2.73	<0.5	11	28	38	3.11
H237530		2.32	<0.01	<0.2	1.51	2	<10	60	<0.5	<2	2.48	<0.5	10	31	16	3.08
H237531		1.02	<0.01	<0.2	0.06	<2	<10	30	<0.5	<2	20.5	<0.5	1	1	<1	0.43
H237532		1.34	<0.01	<0.2	0.80	9	<10	130	<0.5	2	3.08	<0.5	8	23	22	2.35
H237533		0.96	<0.01	<0.2	5.74	11	<10	60	0.5	<2	6.43	<0.5	36	174	30	10.20

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: HARTLESS JOE

Finalized Date: 27-SEP-2008
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CERTIFICATE OF ANALYSIS VA08126562

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	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
G004392		<10	<1	0.18	10	0.38	298	2	0.05	9	340	11	0.14	<2	1	82
G004393		<10	<1	0.21	20	0.30	220	1	0.06	5	330	11	0.15	<2	1	73
G004394		<10	<1	0.16	20	0.20	179	<1	0.06	2	310	9	0.05	<2	1	65
G004395		10	1	0.05	<10	4.38	1070	<1	0.03	99	460	<2	0.10	<2	17	130
G004396		10	<1	0.01	<10	4.26	997	<1	0.02	93	410	2	0.07	2	16	139
G004397		10	<1	0.01	<10	4.56	1385	<1	0.02	105	480	<2	0.11	<2	19	112
G004398		<10	<1	0.03	10	0.57	278	1	0.06	12	280	3	0.11	<2	2	94
G004399		<10	<1	0.17	20	0.54	276	<1	0.04	5	510	7	0.19	<2	1	166
H237511		10	<1	0.09	<10	2.11	1075	<1	0.04	8	650	<2	0.12	<2	23	202
H237512		10	<1	0.15	20	0.77	340	2	0.05	24	930	9	0.05	<2	4	73
H237513		10	<1	0.13	30	0.75	314	1	0.05	24	940	7	0.02	<2	4	62
H237514		10	<1	0.13	30	0.71	405	2	0.05	23	920	8	0.05	<2	4	70
H237515		10	<1	0.11	30	1.12	430	1	0.06	24	960	6	0.07	<2	4	59
H237516		10	<1	0.09	20	1.12	444	1	0.06	24	940	8	0.07	2	4	56
H237517		10	<1	0.09	20	1.09	420	2	0.06	24	940	9	0.13	<2	5	55
H237518		10	<1	0.08	20	1.09	348	2	0.07	25	920	8	0.06	<2	6	47
H237519		10	<1	0.07	10	1.54	380	2	0.07	38	850	5	0.05	<2	7	60
H237520		10	<1	0.07	<10	1.87	617	<1	0.14	70	1040	3	0.11	2	10	91
H237521		10	<1	0.09	20	0.94	563	1	0.05	25	900	5	0.02	<2	5	93
H237522		10	<1	0.07	20	1.25	437	2	0.07	30	920	6	0.04	<2	6	64
H237523		10	<1	0.05	<10	2.09	563	<1	0.12	79	1410	2	0.12	3	12	81
H237524		20	<1	0.05	<10	3.37	832	<1	0.09	74	1020	3	0.14	<2	15	95
H237525		10	<1	0.07	20	1.13	338	2	0.07	28	900	7	0.10	<2	5	47
H237526		20	<1	0.04	<10	2.36	807	1	0.06	104	1580	4	0.85	<2	22	155
H237527		20	<1	0.04	<10	3.06	715	<1	0.09	82	1140	2	0.25	<2	17	102
H237528		10	<1	0.05	10	2.85	999	<1	0.04	101	1360	2	0.28	<2	22	182
H237529		10	<1	0.11	30	0.90	433	2	0.02	27	970	8	<0.01	2	5	77
H237530		<10	<1	0.11	30	1.08	455	2	0.03	26	950	8	<0.01	<2	4	81
H237531		<10	<1	0.02	<10	12.60	196	1	<0.01	<1	280	2	<0.01	<2	<1	56
H237532		<10	<1	0.21	20	0.81	513	3	<0.01	20	620	8	<0.01	<2	4	67
H237533		20	1	0.07	10	4.25	1230	2	<0.01	89	1070	2	<0.01	<2	25	246

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
G004392		<20	0.01	<10	<10	14	<10	24
G004393		<20	0.01	<10	<10	9	<10	21
G004394		<20	<0.01	<10	<10	7	<10	20
G004395		<20	0.19	<10	<10	171	<10	68
G004396		<20	0.34	<10	<10	171	<10	66
G004397		<20	0.26	<10	<10	168	<10	69
G004398		<20	0.01	<10	<10	25	<10	18
G004399		<20	<0.01	<10	<10	10	<10	35
H237511		<20	0.04	<10	<10	199	<10	85
H237512		<20	<0.01	<10	<10	35	<10	45
H237513		<20	<0.01	<10	<10	33	<10	42
H237514		<20	<0.01	<10	<10	31	<10	40
H237515		<20	0.02	<10	<10	37	<10	43
H237516		<20	0.08	<10	<10	43	<10	44
H237517		<20	0.10	<10	<10	46	<10	42
H237518		<20	0.18	<10	<10	55	<10	40
H237519		<20	0.29	<10	<10	96	<10	58
H237520		<20	0.48	<10	<10	163	<10	86
H237521		<20	0.03	<10	<10	43	<10	38
H237522		<20	0.09	<10	<10	64	<10	41
H237523		<20	0.46	<10	<10	193	<10	85
H237524		<20	0.46	<10	<10	221	<10	92
H237525		<20	0.19	<10	<10	66	<10	41
H237526		<20	0.22	<10	<10	272	<10	72
H237527		<20	0.54	<10	<10	234	<10	66
H237528		<20	0.16	<10	<10	258	<10	70
H237529		<20	0.01	<10	<10	42	<10	41
H237530		<20	0.01	<10	<10	44	<10	41
H237531		<20	<0.01	<10	<10	2	<10	12
H237532		<20	<0.01	<10	<10	38	<10	33
H237533		<20	0.02	<10	<10	296	<10	127

APPENDIX III

GEOLOGICAL AND GEOTECHNICAL LOGS

PROPERTY: HARTLESS JOE

HOLE: HJ08-01

Easting	Northing	Elev.	Depth (m)
514903	6751989		246.89

Contractor: BEAUDOIN DIAMOND DRILLING INC.
Drill: JKS SUPER-300

Core size: BTW
Casing depth: (m) out

Drilling dates: June 26-30, 2008

Logged by: Adam Kjos

Target: VTEM conductor

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	270°	45°	Brunton				
		46°	Acid				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0	246.89	246.89	LMST	Limestone country rock
				Except
59.34	59.45			Feldspar porphyry dyke
60.06	59.88			Feldspar porphyry dyke
61.50	64.33			Feldspar porphyry dyke
65.56	72.96			Diorite dyke
79.54	81.66			Feldspar porphyry dyke
86.66	87.58			Feldspar porphyry dyke
90.51	97.74			Feldspar porphyry dyke
233.74	237.74			Feldspar porphyry dyke

SAMPLES

Numbers:

Total:
Date sent:

COMMENTS

`

PROPERTY: HARTLESS JOE HOLE: HJ08-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:	ALT. Calcite Veins			MINERALS				SAMPLES From (m)	To (m)	Interval (m)	Sample
		0	7.61	7.61	LS			Dark Grey	Highly fractured; weakly fetted; partly recrystallized; minor high angle calcite veins	Min										
		7.61	12.24	4.63	LS		mottled	Dark Grey to Grey	Broken fossils; strongly fetted micrite - wackestone; upper part of interval moderate to abundant calcite veins up to 1.5cm	Mod-Abo										
		12.24	24.71	12.47	LS		mottled	Dark Grey to Grey	Increase in proportion of silt to sand; moderately-strongly fetted; distinct fluid breccia zones between 18-24m; silty laminae @ 35° to core axis; minor calcite veinlets.	Min										
		24.71	29.10	4.39	LS			Dark Grey	Weakly fetted; carbonaceous; graphitic micrite with 1cm and less fossil hash horizons @ 47° to core axis.	V Min										
		29.10	40.10	15.39	LS			Grey to Dark Grey	Weakly to moderately fetted; low and high angle calcite veins; graphitic and carbonaceous; 50cm intervals of fine grained lithic to sublithic arenite laminae are distinctive orangish tan @ 80° to core axis; dominately fossil hash rich wackestone where it is not sandy or carbonaceous	Min-Mod										
		40.10	44.06	3.96	LS		breccia	Brownish Grey	Breccia zone; no visible mineralization; angular to subangular weakly fetted, fossil hash rich, wackestone fragments are 2-4cm across; matrix fine grained sandstone to siltstone cemented with calcite	-										
		44.06	46.85	2.79	LS		mottled	Grey	Moderately fetted, medium crystalline limestone; minor low and high angle calcite veins; locally fossil hash rich micrite; locally wackestone.	Min										
		46.85	53.85	7.00	LS			Tannish Grey	Weakly to moderately fetted, medium-coarse crystalline, silty to sandy micrite, minor fossil rich zone; 5 to 15cm fluid breccia zones; laminae @ 50° to core axis; soft sediment structures along contacts between limestone and clastic horizons.	V Min										

PROPERTY: HARTLESS JOE HOLE: HJ08-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:	ALT. Calcite Veins	Hematite		MINERALS Pyrite				SAMPLES From (m)	To (m)	Interval (m)	Sample
		53.85	59.34	5.49	LS			Dark Grey	Less of distinct clastic sedimentary layers; carbonaceous and graphitic; moderately fetted; 5-15cm fluid breccia zones which are hot graphitic; minor low and high angle calcite veins - low angle subparallel to bedding.	Min										
		59.34	59.45	0.11	FP			Pinkish Grey	Feldspar porphyry with 3mm subhedral phenocrysts; minor disseminated, 2mm euhedral pyrite; minor calcite veins	Min			✓							
		59.45	59.67	0.22	LS			Grey	Moderately fetted, crystalline micrite; no pyrite or veins	–										
		59.67	59.88	0.21	FP			Pinkish Grey	Feldspar porphyry with 2-5mm subhedral phenocrysts; <10% euhedral pyrite 1-1.5mm across; upper contact at 0° - lower contact at 30°	–			✓							
		59.88	61.50	1.62	LS			Grey	Moderately fetted, medium crystalline micrite with minor silty laminae @ 30°; local ~10cm thick breccia intervals	–										
		61.50	64.33	2.83	FP			Pinkish Grey	Feldspar porphyry with <10% 1mm cubic pyrite; more feldspar rich toward base.	–			✓							
		64.33	65.56	1.23	LS			Grey to Light Grey	Slightly schistose texture immediately below dyke; minor fluid breccia; very minor <1mm disseminated pyrite in middle of interval.	Min			✓							
		65.56	72.96	7.40	DR			Light Grey	Chilled margin at top until 66.22m; upper contact @ 52° - lower contact not cored; finely crystalline pyroxene diorite to granodiorite; very fine to aphanitic toward base.											
		72.96	79.54	6.58	LS			Grey	Moderately fetted, graphitic micrite with stylolites; 20cm interval of abundant calcite veining centered at 76.56m.	Ab										
		79.54	81.66	2.12	GR			Reddish Grey	Porphyritic hornblende granite; fine grained; minor 1-2mm euhedral pyrite; slickensided fractures	Min	✓		✓							

PROPERTY: HARTLESS JOE HOLE: HJ08-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:	ALT. Calcite Veins	Hematite	Siliceous	MINERALS Pyrite				SAMPLES From (m)	To (m)	Interval (m)	Sample
		81.66	86.66	5.0	LS			Grey-Dark Grey	Strongly fetted micrite; some fluid breccia; possibly very minor pyrite at upper contact											
		86.66	87.58	0.92	FP			Grey	Feldspar porphyry with 5-10% 2mm pyrite cubes;				✓							
		87.58	90.81	2.93	LS			Grey-Dark Grey	very strongly fetted; minor 1mm euhedral pyrite; heavily calcite veined; 89.44-89.71 fossil hash	Ab			✓							
		90.51	97.74	7.23	GR			Pinkish Grey	Porphyritic hornblende granite; minor 1mm subhedral pyrite disseminated; 13cm siliceous zone centred at 93.26; upper contact @ 70°; bottom contact not recovered		✓	✓	✓							
		97.74	99.97	2.23	LS			Grey	Heavily altered limestone with abundant calcite veinlets and brecciation; poor recovery	Ab										
		99.97	233.74	133.82	LS			Dark Grey-Grey	Moderate to strongly fetted micrite to wackestone; <1-4cm fossil hash horizons; intermittent fluid breccia zones; high angle 0.5cm calcite veinlets about every 40-50 cm; some 10cm areas of heavily calcite veining; locally graphitic; noteworthy zones as follows 101.03 - 3-4 cm heavily calcite veined 102.84 - 102.93 heavily calcite veined 106.38 - 106.63 fluid breccia 108.96 4.5cm fossil hash 112.13 - 112.30 fluid breccia 113.60 - 113.64 fluid breccia 113.84 - 114.35 fluid breccia 115.27 - 115.43 fluid breccia 117.13 - 118.23 fluid breccia 128.57 - 128.65 fluid breccia 128.77 - 128.83 fossil hash @ 43° 130.87 calcite vein 1cm 135.58 - 135.68 fluid breccia 138.23 - 138.56 heavy calcite veining 139.14 - 139.69 heavy calcite veining & fluid breccia 140.27 - 140.37 fluid breccia 142.76 - 143.22 heavy calcite veining	variable										

PROPERTY: HARTLESS JOE HOLE: HJ08-01

Struct. Type	Struct. Attitude	From (m)	To (m)	Interval (m)	Lithology Type	Lithology Unit	Lithology Texture	Lithology Modifier	Notes:	Alt. Calcite Veins			Minerals Pyrite				Samples From (m)	Samples To (m)	Samples Interval (m)	Samples Sample
									145.09 - 146.86 fluid breccia											
									147.86 - 149.15 fluid breccia and calcite veining											
									149.07 - 152.20 heavily calcite veined											
									152.91 - 153.32 heavy calcite veining											
									160.55 1.5cm fossil hash @ 45°											
									165.08 1.5cm calcite vein											
									165.41 1cm calcite vein											
									171.73 - 171.96 very heavy calcite veining											
									172.10 - 172.17 heavy calcite veining											
									174.52 - 174.56 fluid breccia											
									175.39 - 175.47 fluid breccia											
									175.90 - 175.97 fluid breccia											
									179.20 - 179.88 fluid breccia											
									181.80 - 181.87 fluid breccia											
									181.99 - 182.15 fluid breccia											
									182.75 - 182.82 fluid breccia											
									187.81 - 187.88 fluid breccia											
									188.70 - 188.75 fluid breccia											
									190.57 - 190.63 fluid breccia											
									194.16 - 195.20 heavily calcite veined											
									196.76 - 196.82 heavily calcite veined											
									199.80 - 199.87 fluid breccia											
									200.52 - 201.20 heavily calcite veined											
									201.60 1cm calcite vein											
									213.08 1cm calcite vein											
									219.50 - 219.75 fine grained breccia zone											
									224.0 - 224.08 heavily calcite veined											
									224.76 - 224.80 heavily calcite veined											
									228.70 - 233.79 moderate to heavy calcite veining											
		233.79	237.74	3.95	FP			Grey	finely crystalline porphyritic granodiorite or granite; minor 1mm pyrite; upper contact at 70°	✓			✓							
		237.74	238.81	1.07	LS			Dark Grey	Brecciated micrite; heavily calcite veined; strong up to 6mm subhedral to euhedral pyrite; not felted	✓			✓							
		238.81	240.79	1.98	LS			Grey - Dark Grey	finely crystalline micrite with disseminated 1mm and less pyrite				✓							
		240.79	244.65	3.86	LS			Grey	Fluid brecciated, very coarse + coarse grained micrite with 2mm calcite veinlets	✓										

PROPERTY: HARTLESS JOE HOLE: HJ08-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:	ALT. CALCITE VEINS			MINERALS				SAMPLES From (m)	To (m)	Interval (m)	Sample
		244.65	246.84	2.19	LS			Grey-Dark Grey	Moderately to strongly fetted, medium crystalline micrite with ½ cm and smaller calcite veinlets; rare narrow fluid breccia zones	✓										
									246.84 EOH											

PROPERTY: **HOLE:** HJ08-01

Struct.		LITHOLOGY								ALT.			MINERALS				SAMPLES							Blocks			GEOTECHNICAL			
																											REC		RQD	
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent
																								0.00	3.35	3.35	0.71	21.2%	0.13	3.9%
																								3.35	6.10	2.75	0.06	2.2%	0.00	0.0%
																								6.10	7.32	1.22	0.08	6.6%	0.00	0.0%
																								7.32	12.19	4.87	3.35	68.8%	1.44	29.6%
																								12.19	15.24	3.05	1.05	34.4%	0.10	3.3%
																								15.24	18.29	3.05	0.60	19.7%	0.00	0.0%
																								18.29	21.34	3.05	0.49	16.1%	0.15	4.9%
																								21.34	24.39	3.05	1.10	36.1%	0.26	8.5%
																								24.39	26.32	1.93	1.55	80.3%	0.40	20.7%
																								26.32	28.65	2.33	1.58	67.8%	0.50	21.5%
																								28.65	29.87	1.22	1.00	82.0%	0.20	16.4%
																								29.87	30.48	0.61	0.30	49.2%	0.10	16.4%
																								30.48	31.09	0.61	0.55	90.2%	0.25	41.0%
																								31.09	33.53	2.44	2.05	84.0%	0.90	36.9%
																								33.53	36.58	3.05	2.82	92.5%	1.20	39.3%
																								36.58	39.62	3.04	2.80	92.1%	2.50	82.2%
																								39.62	40.84	1.22	1.18	96.7%	0.82	67.2%
																								40.84	41.76	0.92	0.20	21.7%	0.10	10.9%
																								41.76	42.98	1.22	1.10	90.2%	0.30	24.6%
																								42.98	47.81	4.83	1.83	37.9%	1.54	31.9%
																								44.81	47.85	3.04	3.04	100.0%	1.61	53.0%
																								47.85	48.77	0.92	0.90	97.8%	0.65	70.7%
																								48.77	50.29	1.52	1.35	88.8%	0.22	14.5%
																								50.29	51.82	1.53	1.48	96.7%	0.27	17.6%
																								51.82	53.95	2.13	2.10	98.6%	1.12	52.6%
																								53.95	54.86	0.91	0.91	100.0%	0.34	37.4%
																								54.86	57.91	3.05	2.90	95.1%	1.68	55.1%
																								57.91	60.96	3.05	2.66	87.2%	0.90	29.5%
																								60.96	64.01	3.05	3.02	99.0%	1.28	42.0%
																								64.01	67.06	3.05	3.05	100.0%	1.10	36.1%
																								67.06	70.10	3.04	3.04	100.0%	2.69	88.5%
																								70.10	73.15	3.05	2.54	83.3%	0.91	29.8%
																								73.15	76.20	3.05	2.81	92.1%	1.81	59.3%
																								76.20	79.25	3.05	2.86	93.8%	2.25	73.8%
																								79.25	82.30	3.05	2.87	94.1%	1.73	56.7%
																								82.30	85.34	3.04	2.84	93.4%	2.02	66.4%
																								85.34	88.39	3.05	2.86	93.8%	2.24	73.4%
																								88.39	91.44	3.05	2.86	93.8%	0.97	31.8%
																								91.44	94.49	3.05	2.94	96.4%	2.30	75.4%
																								94.49	97.54	3.05	2.84	93.1%	2.05	67.2%
																								97.54	99.36	1.82	1.60	87.9%	0.10	5.5%
																								99.36	99.97	0.61	0.55	90.2%	0.21	34.4%
																								99.97	102.29	2.32	2.07	89.2%	1.18	50.9%
																								102.29	103.02	0.73	0.73	100.0%	0.42	57.5%
																								103.02	107.90	4.88	4.84	99.2%	1.93	39.5%
																								107.90	110.34	2.44	2.44	100.0%	1.28	52.5%
																								110.34	112.78	2.44	2.29	93.9%	1.70	69.7%
																								112.78	115.21	2.43	2.15	88.5%	1.56	64.2%
																								115.21	117.04	1.83	1.83	100.0%	1.54	84.2%
																								117.04	118.89	1.85	1.85	100.0%	1.58	85.4%
																								118.89	121.92	3.03	2.84	93.7%	1.33	43.9%
																								121.92	124.97	3.05	2.92	95.7%	2.15	70.5%
																								124.97	128.02	3.05	3.02	99.0%	2.54	83.3%

128.02	131.06	3.04	2.98	98.0%	2.35	77.3%
131.06	134.11	3.05	3.01	98.7%	3.01	98.7%
134.11	137.16	3.05	2.99	98.0%	2.77	90.8%
137.16	140.21	3.05	3.05	100.0%	2.06	67.5%
140.21	143.26	3.05	2.84	93.1%	2.55	83.6%
143.26	146.30	3.04	3.00	98.7%	2.27	74.7%
146.30	149.35	3.05	3.05	100.0%	2.28	74.8%
149.35	155.45	6.10	6.08	99.7%	5.56	91.1%
155.45	158.50	3.05	2.86	93.8%	2.51	82.3%
158.50	161.54	3.04	3.04	100.0%	2.68	88.2%
161.54	164.54	3.00	2.95	98.3%	2.77	92.3%
164.54	167.64	3.10	2.78	89.7%	2.67	86.1%
167.64	170.69	3.05	3.05	100.0%	2.40	78.7%
170.69	173.74	3.05	2.77	90.8%	2.37	77.7%
173.74	176.78	3.04	2.98	98.0%	2.00	65.8%
176.78	178.00	1.22	1.22	100.0%	0.72	59.0%
178.00	179.83	1.83	1.83	100.0%	1.66	90.7%
179.83	182.88	3.05	3.03	99.3%	2.48	81.3%
182.88	185.93	3.05	3.00	98.4%	2.17	71.1%
185.93	187.45	1.52	1.26	82.9%	1.01	66.4%
187.45	190.50	3.05	2.90	95.1%	2.10	68.9%
190.50	192.33	1.83	1.83	100.0%	1.72	94.0%
192.33	194.16	1.83	1.86	101.6%	1.71	93.4%
194.16	197.21	3.05	2.76	90.5%	2.22	72.8%
197.21	200.25	3.04	3.04	100.0%	2.39	78.6%
200.25	203.00	2.75	2.46	89.5%	1.95	70.9%
203.00	204.83	1.83	1.81	98.9%	1.13	61.7%
204.83	207.26	2.43	2.33	95.9%	2.11	86.8%
207.26	210.31	3.05	2.97	97.4%	2.83	92.8%
210.31	213.36	3.05	3.00	98.4%	2.74	89.8%
213.36	216.41	3.05	2.99	98.0%	2.60	85.2%
216.41	219.96	3.55	3.01	84.8%	2.36	66.5%
219.96	222.50	2.54	3.04	119.7%	2.92	115.0%
222.50	225.55	3.05	2.93	96.1%	2.75	90.2%
225.55	228.60	3.05	3.01	98.7%	2.93	96.1%
228.60	231.65	3.05	2.95	96.7%	2.78	91.1%
231.65	234.70	3.05	2.92	95.7%	2.56	83.9%
234.70	237.74	3.04	2.92	96.1%	2.70	88.8%
237.74	240.79	3.05	2.91	95.4%	2.72	89.2%
240.79	243.84	3.05	3.05	100.0%	3.05	100.0%
243.84	246.84	3.00	2.98	99.3%	2.90	96.7%
246.84						

PROJECT

PROPERTY: HARTLESS JOE

HOLE: HJ08-02

Easting	Northing	Elev.	Depth (m)
515127	6752234		

Contractor: BEUDOIN DIAMOND DRILLING INC.
Drill: JKS SUPER-300

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: D. Eaton

Target: Grumpy shpwings and associated gold-rich soil sample plus tested across a a major fault.

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	290°	45°	Brunton				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:
Date sent:

COMMENTS

The hole was stopped soon after crossing a strong fault. A 4 m wide zone of intensely sificified rock with 5 to 20% pyrite. This zone abuts to a dyke. It sounds like the description of the grumpy zone except it is wider and contains pyrite not arsenopyrite. Wispy pyrite laminae were also seen in narrow quartz-carbonate veins and veinlets.

DRILL HOLE LOG

Hartless Joe Property

Hole: HJ-08-02 Zone:

Northing: 6752154 Easting: 515206 Elevation:

Drilling Dates: JULY 1-5 /08 Logged by: M.P PHILLIPS

Length: 197.81 m Core Size: BTW Casing: 2.13 (m) in/out

Depth:	0.00		
Dip:	-45°		
Azim:	200°		

Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit	Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			0.00	2.13	2.13	CASN					
							Casing - no recovery				
			2.13	3.05	0.92	CONG 30 / SAND 70	0 < 1 < ? ; 0 < T ; O O - M T				
							SAND - sand to gnt size: - blk md ± ls ; cong - blk carb md >> ls; sl cd - pebble small & med; cavt - white ± pale orange (cb? or li ex py) on weathered fracture				
			3.05	5.20	2.15	CONG 30 / SAND 70	0 < 1 < ? ; 0 < ? ; O O M T	3.05	5.20	2.15	G004355
							as above; below 3.60 - SNMB: bleached pervasive orange color - influence of FELS; btm cnt 45°				
			5.20	6.10	0.90	FELS X / LIMS 7	> 1 < 1 < W ; < T < ? < W < L ; S < L	5.20	6.10	090	356
							FELS - light gray, v fg pale orange color, chilled aphanitic; qz - 2-3 cm vt; cavt - white < 1 mm; orange vt < 0.5 mm ± cb - no fizz; Li - on fr, v wk.; LIMS - xenolith in FELS				
			6.10	9.14	3.04	FELS X / WIMS 6	0 < W < W ; < T < ? < W < L ; S < L / 45	6.10	9.14	3.04	357
							WIMS - xenolith; FELS - pale orange; fr - most prominent 45° oftens lk ± coated weak - stony mn; cb - ? looks like fr with weathering & not cb vf ; Li = Mn = low; fr - wk, but numerous;				
			9.14	12.19	3.05	PPQZ X	P < 2 < 1 < W ; < W ? < T < L ; S / ± 45°	9.14	12.19	3.05	358
							PPQZ - wk (2%) graphn < 0.5 mm), pale orange qz vt - to 2 mm, mainly < 1 mm ± ca, ± cb; cb - fr or is this orange weathering fr; fr ± qz ± ca ± cb				
			12.19	15.24	3.05	PPQZ X	V 2 < 3 < L ; < W < W < T ; S < T / D	12.19	15.24	3.05	359
							PPQZ - pale orange dsr'd ls; qz - 2% vn to 3 cm irreg to blebs; py - fr > dis, near btm x-c core; qz ± ca vfs; definite fr - orange cb fr - cb ± ca ± qz. 14.52 - 15.24 - section host qz ± py ± sx; P_y = py + sx = black very fine grained fracture filling pyrite (sx) & fine grained brassy colored pyrite				

DRILL HOLE LOG

Hartless Joc Property

Hole: HJ-08-02 Zone: Page: 2/14

Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit		Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			15.24	18.29	3.05	PPQZ	X	QZ > W < 2 CA < L CB < L SX ? < L PY < L MN < L WI < T BD FR S ZN < T	15.24	18.29	3.05	G004360
			17.00	18.29	1.29	FELS	X					
			PPQZ - pale orange to ltgy at lot; qzvn-2cm-irreg-15°, well wkpy; x-c by cavt, cbvt(?) & qzvt; cb dcr.; fr - stk +40°, -15° & +80°, -30°; qz-pyvt on -30° fr.; of 17.00 trn to FELS.							
			18.29	19.72	1.43	FELS	X	< W < 2 < L ? < L < L < T A < T	18.29	19.81	1.52	361
			FELS - ltgy; qzvt < 2mm; cb - fr - weak; cavt ou 1-2mm; li-es py. py-vt (< 0.05) aminer dis; fr - +35° - 60°									
			19.72	19.81	0.09	CONG	X	0 < 1 0 0 0 0 0 W S				
						SAND	40					
			CONG - small to med pebble cong; cong - blk carb shale, blk carb ls pebbles in a SAND med-coarse sand & grit of blk mds Ls									
			19.81	21.34	1.53	CONG	X	0 < 1 0 0 0 0 W W S	19.81	2134	2.53	362
						SAND	40					
			as above.									
			21.34	22.50	1.16	CONG	X	0 < 1 0 0 0 0 W S	2134	22.50	1.16	363
						SAND	40					
			as above, lot 50° - sharp.									
			22.50	23.47	0.97	FELS	X	< L < 0.5 < 0.5 0 < L < L 0 S < S	22.50	23.47	0.97	364
						PPQZ	25					
			PPQZ - band at top, light gray overprint pale orange color;									
			23.47	24.38	0.91	PPQZ	X	< T < 5 < 5 0 0 < W 0 S < S	23.47	24.38	0.91	365
									at	24.38	Blank	Sample 366
			PPQZ phn to 2mm, orange colored; fr - cy + ca + cb(?)									

DRILL HOLE LOG

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Visual Log			From	To	Interval	Unit		Alteration and Mineralization																				From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB				SX		PY		MN		WI		BD		FR		ZN		(m)	(m)	(m)	Number
			24.38	25.05	0.67	PPQZ	X	<	L	<	L	<	?					0	<	L		0		0		-		S	<	S	24.38	25.05	0.67	G004367
						PPQZ - pale gray strong fr. pale orange , Py - frs near bottom; cb - on cy fr ? ; btm 5cm - br;																												
			25.05	27.43	1.96	MDLS	X		0	<	1	<	?						<	D	L	0		0		-		M	<	S	25.05	27.43	2.38	368
			27.05	27.43	0.38	VLO1	X			Q	S																						
						MD - 25.07 - 25.80 - highly broken - fr, black carb interbd ls & md. volc - pale green, alt, fine grained matrix, rare fx phn (?), occ ca = S;																												
			27.43	28.90	1.47	MDLS	X		0	<	2		0					0	<	D	0.5	0		0		30		M		S				
			28.90	29.90	1.00	VLO1	X	<	L	<	2		0						D	L														
						MD - blk, carb, silty - with bands (20 x 45cm) & partings ls, occ silt parting ls - 40°/o ; VL - pale-med green, fine grained, x's - alt px, towards bt m; v fine grained phn fx - 2-3% fine grained																												
			29.90	30.49	0.59	VLO1	X		0	<	L		?					0		0		0	<	T		-		S	P	O				
						FAUL	50																											
						VL - bleached, pale orange, in part fit (50°) + br, strong cy - fault zone																														
			30.49	33.25	2.76	VLO1	X		0	<	2	<	L					0	D	L		0		0		-		W	<	S	31.50	33.25	1.75	369
						MUDS	10			P	W																							
						VL - pale-med green, alt - occ ca, fine phn fx - waxy looking, cb - orange vt grades into cavt; VL - 10°/o to 25cm MD - carb, slight silty ; Lot ~ 30°																												
			33.25	33.53	0.28	FELS		<	W	<	1	<	?					0	<	D	L	0		0		-		S	<	S	33.25	33.53	0.28	370
						FELS - lt orange grades to ltgy;																														
			33.53	34.26	0.67	FELS	X	<	W	<	1	<	?					0	<	D	L	0		0				S	<	S	33.53	34.26	0.73	371
						FELS - Light orange, bt m cont ±30°																														

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| Visual Log | | | From | To | Interval | Unit | | Alteration and Mineralization | | |

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Azim:			

| Visual Log | | | From | To | Interval | Unit | | Alteration and Mineralization | | |

DRILL HOLE LOG

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Hartless Joe Property

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Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																				From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB				SX		PY		MN		WI		BD		FR		ZN		(m)	(m)	(m)	Number
			64.01	67.06	3.05	PPFH	X	0	<	2		0				0		0		0	<	W		-		W		T		64.01	67.06		H237514
			65.07	66.46	1.39	FAUL	45	0	P	M		0						0		0	<	W		-		S		O				

PPFH - ~15% <1-occ 2mm ft, ~5% bb(cl) - no definite bc in an medgy v f inegned. matrix; 65.07 - 66.46 - blc, palcyel orange, strong sup cy; ca-vt + penosive fr. slk, at 66.20 - 45° flt 4cm highly shr & strong cav.

			67.06	70.10	3.09	PPFH	X	0	<	0.5		0				0	D	T		0	<	W				S		T		67.06	70.10		515

PPFH - fr +20°(occ slk) & -50°(w); Py - dis & lt on fr; v wk cy on fr.

			70.10	73.15	3.05	PPFH	X	0	<	0.5		0				0	D	T		0	<	W				A		T		70.10	73.15		516

fr - +20° dominant, v wk fr sup cy.

			73.15	76.20	3.05	PPFH	X	0	<	0.5		0				0	D	T	<	T	<	W				W		S		73.15	76.20		517
			74.30	74.85	0.55	FAUL	X																			S		O				

74.30 - 74.85 +20° fr S & often cy lined - wk flt; Py - locally ier to W

			76.20	79.25	3.05	PPFH	X	0	<	1		0				0	D	T	<	T	<	W				M		S		76.20	79.25		518

78.80 fm matrix PPFH to aphanitic; at 79.17 - 25° 4mm white cb(?) + qz(L) vt;

			79.25	79.50	0.25	PPFH	X	0	<	7		0				0	D	T	D	0		0		-		W		S		79.25	79.60		519
			79.50	81.17	1.67	MUDS	X	0	<	0.5		0						0		0	<	W				W		S		79.60	81.17		520

btm cont - irreg displaced by fr - look ~25°; PPFH - Chilled matrix - dk red bwn; ; ier cavt to 3mm sht 40°; MUDS - dk gry ± silty; occ. oolites < 2mm - ; btm cont blc - bwn ± 10cm.

			81.17	82.30	1.13	PPFH	X	0	V	3		0				0		0		0	<	W		-		M		S		81.17	82.30		521

PPFX - upper ± 40cm highly fr & matrix bleached; 5mm - 3cm 45° cavn; wk sup cy on fr.

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Visual Log			From	To	Interval	Unit		Alteration and Mineralization																				From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB					SX		PY		MN		LI		BD		FR		ZN		(m)	(m)	(m)	Number
			82.30	83.35	1.05	PPFH	X		0	<	1		0					0	D	T	<	L	<	W		-		M		S	82.30	83.35		H 297522
			83.35	85.34	1.99	MUDS	X		0	<	2		0					0		0		0	<	L		-		M		S	83.35	85.34		523
			PPFH - btm cnt 30°; MUDS - dk gy, weak silty ; 1cm cavn - 40° with wk blc env; occ <3mm oolites in 2cm bd in mudstone; PPFH - 64.01 to 87.75 - alt may be hypogene phyllic with overprint supergene ay?																														
			85.34	86.91	1.57	MUDS	X		0	<	1		0					0	<	T		0	<	L			-	W		S	85.34	86.91		524
			86.91	87.75	0.84	PPFH	X		0	<	0.5		0					0	D	T		0	<	L		-		L		S	86.91	87.75		525
			MD - btm cnt - 60°, scattered oolites, in places ~ to 4cm; MD balls & rare to 6cm; spotted chert clasts; btm wk blc & blc on 1cm ca my; PPFH aphanitic matrix; Lct - 50°(?)																														
			87.75	88.39	0.64	MUDS	X		0	<	1		0					0	<	L		0	<	L		-		W		S	87.75	88.39		526
			MD - as above																														
			88.39	91.44	3.05	MUDS	X		0	<	1		0					0	<	W		0	<	W		-		W		S	88.39	91.44		527
			MD - wk-fair silty, dk gy, oolites - <3mm, bds & ds - occ cherty, in places looks like MD - balls to 3cm, lt gy chert band; 89.30 - 89.65 - sht vt - 1cm vn ca, ~20°																														
			91.44	93.10	1.66	MUDS	X		0	<	10		0					0	<	W		0	<	T				W		S	91.44	93.10		528
			93.10	94.49	1.39	PPFH	X		0	<	0.5		0					0		0		0	<	T				S		Q	93.10	94.49		529
			92.80 - 93.10 - icr blc to Lct - lt bwn; MD - 7±10cm bds oolites up to 5mm often silty ; en wk blc to 10cm where strong cavt-vn present; PPFH - 5cm bc-br at vct - 60°(?), to 93.72 blc lt bwn, strong fr, sup on hypolt																														
			94.49	95.86	1.37	PPFH	X		0	<	0.5		0					0	D	T		0	<	T				S		S	94.49	95.86		530
			95.86	96.62	0.76	PPFH	X																							T	at 95.86	Blank Sample		531
			PPFH - typical, sup cy Lli on fr; 95.86 - 96.62 - blc, pale orange, uct tn, to lct fr phd sapper, intense mic ofs, √ fine grd occ qz phe - chilled cnt																													95.86	96.62		532
			96.62	96.93	0.31	FAUL	X		0	<	2		0					0		0		0	<	T				S		S	96.62	97.30		533
			96.62	96.93		MUDS	X																										
			FAUL, ~35% clasts PPFH in a pale green md, shearing 30°																														

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Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit		Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			96.93	97.30	0.37	FAUL.	X	QZ 0 CA 0 CB 0 SX 0 PY 0 MN 0 WI 0 BD - FR S ZN S				
						MUDS	X					
						FAUL. - as 96.62-96.93m.						
			97.30	98.60	1.30	MUDS	X	< 1 < 5 0 0 < T - M S	97.30	98.60	1.30	G004373
						MD - pale greenish gray, blc?, bds 3-10cm oolitic; qz in wide (1cm) cavns.						
			98.60	99.97	1.37	FELS	X	< 1 < 1 0 ↓D T 0 < T - M S	98.60	99.97	1.37	374
						FELS - uct 20°, v f inequigranular matrix, no recognizable phn; dk speck-alt hb+py? specks decrease to lct; qv-gash type often with ca, very wk cavt; py-fr, dis yel/gy color, orange micofr-mod; qzvt offset strongly by fr						
			99.97	103.02	3.05	FELS	X	< W < 1 0 ↓D W 0 ↓D L W S	99.97	103.02	3.05	375
						FELS - li specks to btm disappear/very dis py; fr-py-black v fine-looks like type seen in FELS at top of hole; qzvt 2-4mm broken fr ± ca tr py; this looks more like FELS; cavt < 0.5mm / are 15mm ca vn						
			103.02	106.07	3.05	PPQZ	X	< L < 2 0 P ? ↓D W < L ↓D W W S	103.02	106.07	3.05	376
			104.40	104.50	0.10	FAUL	X	M				
						PPQZ - rare < 0.5mm qz phn; dk speck-alt mafic ± towards btm. faint f-sph; no sup alt; qzvt-v wk, blk fr py dcr; flt - bc-br. -50°						
			106.07	108.20	2.13	PPFH	X	< W < 1 0 < ? P2 T < L D L W S	106.07	108.20	2.13	377
						- PPFX - pale green (hyp) minor pale orange (sup), fx-weak dev ± hb-tocl ± py ± li tr in PPFH; qzvt < 3mm ± ca ± py(T); PPFH - rare qz phn						
			108.20	111.25	3.05	PPFH	X	< T < 1 0 0 P2 W < L < T - F S	108.20	111.25	3.05	378
						PPFH - pale green (hyp) ± orange, as above fr v wk dev; qzvt-tr; orange ca x cb by white cavt, no qz phn, no PPQZ py - black very fine grained coating fr.						

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Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit	Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			111.25	112.78	1.53	PPFH X PPQZ 20	QZ <T CA <1 CB 0 SX 0 PY D/W MN <L LI D/L BD – FR W ZN S PPFH: qy green & pale orange, fx-rare, hb-alt- very wk; Py mainly diss; qzvt <2mm ± ca (up to 50°)	111.25	112.78	1.53	G004379
			112.78	115.82	3.04	PPQZ X PPFH 50	<T <1 ? 0 D/L <L <L <T – S S Pale orange-PPFH-occ fx phn, faint hb to clt+cy; PPQZ - minor qz phn <2mm Py - fr > diss, fros seen in PPQZ - v fine grained, diss-cubic x Py; ICr pale orange fr.	112.78	115.82	3.04	380
			115.82	118.73	2.91	FELS X	<T <1 ? 0 D W <L <L <W 0 S S PPQZ - lct - 15°, v wk qz phn; pale orange; 6tm 2.0cm - 3cm clasts of volc.	115.82	119.18	3.36	381
			118.73	119.18	0.45	VL01 X	0 <2 0 0 0 0 0 – W S P M 20 VL - dk greenish gray, v fine grained, <1mm dk green occ ca filled amygdales; on lct 10cm bnd amygdales <2mm; - fair-strong pervasive ca∨				
			119.18	121.01	1.83	VL01 X	0 <3 0 0 <T 0 <T S T VL - dk green gray ± light green, oolitic; fair oolitic bd to 6cm - weathered ul? & volc 3.5cm ltgy chert bd; wk sup cy on fr, minor cl ± ca filled amygdales volc - as above				
			121.01	122.22	1.21	VL01 X	0 <4 0 0 <L 0 <T – M S VL as above, ltgreen, occ <5cm oolitic bd, rare <0.5mm cl filled amygdales				
			122.22	123.75	1.53	VL01 X	0 <2 0 0 0 <L W T VL - as above, v wk <1mm filled amygdales;	122.22	123.75	1.53	382

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Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																				From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB					SX		PY		MN		LI		BD		FR		ZN	(m)	(m)	(m)	Number
			137.16	140.21	3.05	VL01	X	B	L	K	7		10					0	∠	T		0		0		0		W		S				
						Vh - dark, mostly med green, wk-strong ca- pervasive; 1cm blk chert bd, amygdales wk-very fine, ca ± cl filled; v fine fx - ca - propylitic alt; bl-3cm, 60°, ca matrix, wk blebs qz; Py-tr, cavt' bc-20°, 4cm ca matrix																										
			140.21	143.26	3.05	VL01	X		0	K	5		0					0		0		0		0		0		W		S				
										P	5																						
						Vh - as above; ca - fair-strong pervasive -																												
			143.26	146.30	3.04	VL01	X		0	K	7		0					0	∠	T	∠	T	∠	T		0		W		S				
			145.90	146.30		FAUL	X			#	50																	S						
						VL - as above.																												
						145.90 - 146.30 - flt - 10°, up to 3cm - volc clasts in calcitic matrix																												
			146.30	149.35	3.05	VL01	X		0	K	12		0					0	∠	T	∠	T		0		0		W		S				
						CHER	15			P	5																						
						CH - 2 irreg bds - 7cm ea, dk gy; VL - as above, alt bands - wk - strong alt fx(?) rare mafic - dk green; fx(?) phn in aphanitic - very fine grained matrix																												
			149.35	152.40	3.05	VL01			0	K	10		0					0	∠	T		0		0		0		W		S				
										P	M																						
						VL - as above - hi fx(?) = stromer ca; Ca-pervasive fair-strong; 151.70 - 152.04 - 25° Cavn - 10% clasts < 1cm x 0.5cm;																												
			152.40	155.45	3.05	VL01	X		0	K	5		0					0		0		0		0		0		W		S				
										P	M																						
						Vh - med green, mostly strong fine fx phn(?); ca - pervasive - fair-strong.																												
			155.45	158.50	3.05	VL01	X	K	2	K	5		0					0		0		0		0		0		W		S	155.45	158.50	3.05	G004390
						Volc - amygdales < 5% < 2mm mainly ca filled, minor cl filled in a vf grained ca strong vl ; Qz-stk 1-15mm av 3mm ± ca.																												

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Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit	Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			158.50	160.93	2.43	VL01	QZ W; CA K 3; CB 0; SX 0; PY < L; MN 0; LI < T; BD 0; FR W; ZN S	158.50	160.93	2.43	G004391
							VOLC - <2% mainly <0.5mm dk green cl amygdales in a strong pervasive ca vl.; minor ca amygdales; note ICR py-cavts				
			160.93	161.54	0.61	PPFQ X	0; < 1; P W; 0; D L; 0; < L; 0; W; S	160.93	161.54	061	392
							160.93 - shr vol cnt 45°; PPQF - greenish gray, somewhat similar to PPFX - only has qz phn; phn - weak <1mm, fx > qz > hb(cl) in aphanitic - v fine grained matrix fx phn - strong ca; dar fx to lat.				
			161.54	164.59	3.05	PPQH X	V 4; < 1; 0; D L; 0; < L; 0; M; S	161.54	164.59	3.05	393
							162.0 - 163.20 - strong fr - ICR lt; PPFQ - fx not well developed, qz phn to 2mm, matrix - v fine grained, mainly Qz - hb(cl) ppry; 162.5 - br (flt) 45° 2cm br; Qz - vt 2mm 1cm & 2 x 45mm rare wk qz - 1cm qz + cal + py + MU with 45mm en qz - barren.				
			164.59	166.05	1.46	PPQH X	V 10; < 1; 0; D L; 0; < L; 0; M; S	164.59	166.05	1.46	394
							PPQH - lat lighter color, qz phn prominent, no fx phn & dar to wk hb(cl) phn; Qzvn - 1cm, 25% to 75% silica flooding, occ fr - bleached qz flooded 1cm wide; Lat - 40°. occ. irreg fr - dk fine grained py				
			166.05	167.64	1.59	VL01 X	V 10; K 3; P F; 0; 0; 0; < L; 0; M; S	166.05	167.64	1.59	395
							VL - dk green, spotted appearance, Qzvn 1-4.5cm wide 15° to 25°; VL - wk-fair pervasive ca;				
			167.64	168.55	0.91	VL01 X	V 10; < 5; P M; 0; D T; 0; < T; 0; W; S	167.64	168.55	0.91	396
							VL - med-dk green, ca pervasive mod; Qzvn - 1.5-3.5cm + ca, ±20°;				
			168.55	171.60	3.05	VL01 X	> 1; < 5; 0; 0; 0; < T; 0; W; S	168.55	169.50	0.95	397
							VL - lighter color, ICR fine anhedral fx & dk green cl exp.; sharp dar in qzvn (>1cm)				

DRILL HOLE LOG

Hole: HJ-08-02 Zone: Page: 13/14

Hartless Joe Property

Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:		
Dip:		
Azim:		

| Visual Log | | | From | To | Interval | Unit | | Alteration and Mineralization | | |

DRILL HOLE LOG

Hole: HJ-08-02 Zone: Page: 14/14

Hartless Joc Property

Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																					From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB					SX		PY		MN		NI		BD		FR		ZN		(m)	(m)	(m)	Number
			188.55	188.98	0.43	PPFX	X	<	T	<	1						0		D	N		0	<	N				M		S	188.55	189.83	1.28	G004398
						PPFX - vct 65°, 10% fine cubedral phn in a light gray glassy aphanitic matrix																													
						trace - alt hb? - cy?; minor dis py																													
			188.98	189.83	0.85	PPFX	X	<	1	<	1		0				0		< D	N		0	<	N				S		S				
						PPFX - as above, but irreg +60° & +10°																													
			189.83	190.19	0.36	VL01	X		0	<	3		0				0		0		0		0				W		S				
										P	M																					
						VN - as 186.84 - 188.85																													
			190.19	192.63	2.44	VL01	X		0	<	0.5		0				0		0		0		0				M		S				
										P	S																					
						VN - this type not seen before; dk green, very fine dk green phn - px? - 10%, in places looks amygdales, phn in microxl matrix, ca-pervasive strong 2 vt < 0.5mm; 6 to m 25cm blc - pale green & strong fr																													
			192.63	195.68	3.05	LSSH	X		0	<	1		0				0		D	N		0		0		40		W		S				
			195.12	195.21	0.09	VL01																												
						LSSH - Lm - thin bd. black carb shale & dark gray to black carbonaceous limestone; 195.21 - 195.68 - blk carb limestone with grits (< 2mm); near bottom 4cm band. ppry;																													
			195.68	197.36	1.68	PPFH	X	<	L	<	W	<	N				0		< D	N		0		0		-		W		S	195.68	197.36	1.68	399
						vct 45° 11. bd; lct - 50° (?); PPFH - light gray, microxl matrix with dk specks < 5% - alt fx & hb (cl)? Py - xl & v fine; cb? - white, no fizz HCl; py - most very fine as seen at top of hole.																													
			197.36	197.81	0.45	LSSH	X		0	<	2		0				0		D	N		0		0		85				S				
						LSSH Lm blk shale & limestone																													
						197.81 E.O.H.																													

PROPERTY: **HOLE:** HJ08-02

LITHOLOGY										ALT.			MINERALS				SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
Struct.																											REC		RQD									
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling
																								0.00	3.05	3.05	0.60	19.7%	0.00	0.0%							
																								3.05	6.10	3.05	2.55	83.6%	0.15	4.9%							
																								6.10	9.14	3.04	2.55	83.9%	0.23	7.6%							
																								9.14	12.19	3.05	3.01	98.7%	0.88	28.9%							
																								12.19	15.24	3.05	3.05	100.0%	2.13	69.8%							
																								15.24	18.29	3.05	3.05	100.0%	2.44	80.0%							
																								18.29	19.81	1.52	1.35	88.8%	0.39	25.7%							
																								19.81	21.34	1.53	1.42	92.8%	0.46	30.1%							
																								21.34	23.47	2.13	2.13	100.0%	1.03	48.4%							
																								23.47	24.38	0.91	0.88	96.7%	0.21	23.1%							
																								24.38	27.43	3.05	2.70	88.5%	0.37	12.1%							
																								27.43	30.48	3.05	2.98	97.7%	1.12	36.7%							
																								30.48	33.53	3.05	2.94	96.4%	1.64	53.8%							
																								33.53	36.58	3.05	3.01	98.7%	2.37	77.7%							
																								36.58	39.62	3.04	3.00	98.7%	2.16	71.1%							
																								39.62	42.67	3.05	2.64	86.6%	1.07	35.1%							
																								42.67	45.72	3.05	2.97	97.4%	1.63	53.4%							
																								45.72	48.77	3.05	2.65	86.9%	0.22	7.2%							
																								48.77	51.82	3.05	2.97	97.4%	1.18	38.7%							
																								51.82	54.86	3.04	2.91	95.7%	1.22	40.1%							
																								54.86	57.91	3.05	3.02	99.0%	1.91	62.6%							
																								57.91	60.96	3.05	3.05	100.0%	0.21	6.9%							
																								60.96	64.01	3.05	2.66	87.2%	0.30	9.8%							
																								64.01	67.06	3.05	2.89	94.8%	0.80	26.2%							
																								67.06	70.10	3.04	2.80	92.1%	0.10	3.3%							
																								70.10	73.15	3.05	3.05	100.0%	0.24	7.9%							
																								73.15	76.20	3.05	3.05	100.0%	0.20	6.6%							
																								76.20	79.25	3.05	3.05	100.0%	0.21	6.9%							
																								79.25	82.29	3.04	3.05	100.3%	0.69	22.7%							
																								82.29	85.34	3.05	3.05	100.0%	0.92	30.2%							
																								85.34	88.39	3.05	3.05	100.0%	1.13	37.0%							
																								88.39	89.00	0.61	0.40	65.6%	0.15	24.6%							
																								89.00	91.44	2.44	2.56	104.9%	0.93	38.1%							
																								91.44	93.88	2.44	2.01	82.4%	0.98	40.2%							
																								93.88	94.49	0.61	0.44	72.1%	0.00	0.0%							
																								94.49	95.10	0.61	0.61	100.0%	0.00	0.0%							
																								95.10	96.93	1.83	1.83	100.0%	0.40	21.9%							
																								96.93	99.97	3.04	3.05	100.3%	1.84	60.5%							
																								99.97	103.02	3.05	2.91	95.4%	1.30	42.6%							
																								103.02	106.07	3.05	3.05	100.0%	1.65	54.1%							
																								106.07	108.20	2.13	1.68	78.9%	0.53	24.9%							
																								108.20	111.25	3.05	3.00	98.4%	1.43	46.9%							
																								111.25	112.78	1.53	1.42	92.8%	0.82	53.6%							
																								112.78	115.82	3.04	2.93	96.4%	1.18	38.8%							
																								115.82	117.96	2.14	2.14	100.0%	0.68	31.8%							
																								117.96	119.18	1.22	1.05	86.1%	0.27	22.1%							
																								119.18	121.00	1.82	1.50	82.4%	0.37	20.3%							
																								121.00	122.22	1.22	0.87	71.3%	0.18	14.8%							
																								122.22	124.05	1.83	1.80	98.4%	0.86	47.0%							
																								124.05	124.97	0.92	0.71	77.2%	0.00	0.0%							
																								124.97	125.58	0.61	0.78	127.9%	0.00	0.0%							
																								125.58	126.80	1.22	1.02	83.6%	0.00	0.0%							
																								126.80	128.02	1.22	1.44	118.0%	0.17	13.9%							
																								128.02	129.54	1.52	1.13	74.3%	0.00	0.0%							
																								129.54	131.06	1.52	0.91	59.9%	0.72	47.4%							
																								131.06	134.11	3.05	2.97	97.4%	2.24	73.4%							
																								134.11	137.60	3.49	2.90	83.1%	1.78	51.0%							
																								137.60	140.21	2.61	2.93	112.3%	1.56	59.8%							
																								140.21	143.26	3.05	3.05	100.0%	2.31	75.7%							
																								143.26	146.30	3.04	2.70	88.8%	1.87	61.5%							

PROPERTY: **HOLE:** HJ08-02

LITHOLOGY										ALT.			MINERALS				SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
Struct.																											REC		RQD									
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling
																								146.30	149.35	3.05	2.98	97.7%	1.60	52.5%							
																								149.35	152.40	3.05	3.04	99.7%	1.94	63.6%							
																								152.40	155.45	3.05	2.86	93.8%	2.01	65.9%							
																								155.45	158.50	3.05	2.96	97.0%	1.23	40.3%							
																								158.50	161.54	3.04	2.89	95.1%	1.92	63.2%							
																								161.54	164.59	3.05	2.97	97.4%	0.76	24.9%							
																								164.59	167.64	3.05	3.04	99.7%	0.90	29.5%							
																								167.64	168.25	0.61	0.56	91.8%	0.13	21.3%							
																								168.25	168.55	0.30	0.31	103.3%	0.10	33.3%							
																								168.55	171.60	3.05	2.78	91.1%	1.31	43.0%							
																								171.60	173.50	1.90	1.52	80.0%	0.11	5.8%							
																								173.50	174.35	0.85	1.27	149.4%	0.60	70.6%							
																								174.35	175.26	0.91	0.69	75.8%	0.00	0.0%							
																								175.26	176.17	0.91	0.88	96.7%	0.22	24.2%							
																								176.17	178.31	2.14	2.02	94.4%	0.73	34.1%							
																								178.31	178.92	0.61	0.62	101.6%	0.00	0.0%							
																								178.92	180.14	1.22	1.37	112.3%	0.40	32.8%							
																								180.14	180.75	0.61	0.65	106.6%	0.00	0.0%							
																								180.75	183.79	3.04	2.94	96.7%	1.43	47.0%							
																								183.79	186.84	3.05	2.91	95.4%	0.72	23.6%							
																								186.84	188.98	2.14	2.12	99.1%	0.65	30.4%							
																								188.98	190.19	1.21	1.00	82.6%	0.49	40.5%							
																								190.19	192.33	2.14	1.87	87.4%	0.00	0.0%							
																								192.33	194.16	1.83	1.68	91.8%	0.10	5.5%							
																								194.16	194.76	0.60	0.40	66.7%	0.00	0.0%							
																								194.76	197.81	3.05	3.02	99.0%	1.87	61.3%							

PROJECT

PROPERTY: HARTLESS JOE

HOLE: HJ08-03

Easting	Northing	Elev.	Depth (m)
515127	6852234		

Contractor: BEUDOIN DIAMOND DRILLING INC.
Drill: JKS SUPER-300

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: Doug Eaton

Target: Gold and silver rich talus and strong topographic linears suspected of being vein faults.

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	110	45	Brunton				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:
Date sent:

COMMENTS

The hole crossed major faults and was stopped because of danger of loosing rods.

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 1/11

PROPERTY-HARTLESS JOE Northing: 6752154 Easting: 515206 Elevation:

Drilling Dates: JULY 5-9/08 Logged by: M P PHILLIPS

Length: 167.34 m Core Size: BTW Casing: 3.05 (m) in/out

Depth:	0.00		
Dip:	-45°		
Azim:	200°		

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																				From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ		CA		CB				SX		PY		MN		LI		BD		FR		ZN	(m)	(m)	(m)	Number
			0.00	3.05	3.05	CASN																									
			no recovery																												
			3.05	4.88	1.83	LIMS	X		0		0		0						0		0		0		0		-		-		S						
			~40cm recovery & core highly broken; blk carb Ls; probable part of cong unit																												
			4.88	7.93	3.05	CONG	X		0	<	W		0						0	Q	W	<	T	<	T		-		S		T						
						SAND	70																														
			CONG - blk, carb Ls > md & weak pale green volc - V small to med pebble size																												
			SAND - md Ls & volc - fine-coarse sand & occ grit size matrix																												
			7.93	9.76	1.83	CONG	X		0	<	W		0						0		0	<	T	<	T		-		M		T						
						SAND	30																														
			CONG - blk carb Ls > md & pale green volc - granule to large cobble size																												
			SAND - sand to grit size; Ca vt to 7mm ov 1-2mm white - occ orange rim - oxd ca or oxd cb?																												
			9.76	11.59	1.83	CONG	X		0	<	1		0						0		0		0	<	T				W		T						
						SAND	05																														
			CONG - mostly pale green volc cobble - boulder size; SAND - silt-sand size. Cavt < 2mm often pale yellow weathered; CONG - < 3 cm PPQF pebble;																												
			11.59	13.41	1.82	CONG	X		0	<	W		0						0		0		0	<	T		-		S		T						
						SAND	10																														
			CONG - mostly large boulder blk carb md - minor perting Ls & wk porphyritic volc; SAND - sand to grit size matrix																												
			13.41	16.77	3.36	MUDS	X		0	<	W	<	W						0	Q	W		0	<	T		35		W								
										#	W																										
			MUDS - interbedded v thin, blk to dk gy & lt gy, mostly pale orange, not typical; cavt - pale orange, nil-wk fizz HCl, occ vt ca core;																												

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 2/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log V	S	(m)	From (m)	To (m)	Interval (m)	Unit		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN
			16.77	18.90	2.13	MUDS	X	0	< 1	< ?			0	0	0	< T	35	M	L
			18.00	18.90	0.90	SILT	X												

to 18.00m - as previous; below dcr blk md thin beds & icr pale orange brn. med thin md gradually becomes coarser - silt size; SILT - <10% blk md

			18.90	19.90	1.00	SILT	X	0	< 1	< ?			0	0	0	< T	-	M	L
			19.38	19.90	0.52													S	

Silt - pale-med orange, minor partings gray md; below 19.38 to Lct strong fr; cavt - <0.5mm; color silt due to intrusive; Lct 70°?)

			19.90	21.04	1.14	PPQZ	X	< 1	< W	< T			0	< L	0	< T		S	T
								B											

PPQZ - pale orange, 5% to 2mm qz phn, intense micro fr - minor. br, near bottom. weak fx phn; wk cy + ca on weathered fr; Qzvt <3mm assoc rim py - lt wk, vts displaced by fr; Py - fr, cracks & rim qzvt; Cbvt? - pale orange 0.5mm

			21.04	23.77	2.73	PPFQ	X	< 2	< T	< L			?	< L	< T	< L		A	O

PPFQ - pale orange to pale gray orange, fx ~15% fine gned alt to cy - MS? Qzvt - 0.5mm - 10mm, most <1, dcr to lct, rdic li; Py - most to lc, v wk fr-cracks Cbvt - bncvt definite, white assoc qzvt

			23.77	26.22	2.45	PPFQ	X	< L	< L	< L			D	T	D	L	< L	< L		A	O
			25.45	26.22	0.77															W	

PPFQ - as above, to Lct fx phn. finer; 24.90 - 5cm bc - br, 55°; 25.45 - btm fr - A Qzvt dcr - most <1mm. rare py(w) lin; Py - assoc qzvt, most dry fr - cracks; cb - weath fr & rare with qzvt; lc - most looks ex very fine py.

			26.22	27.52	1.30	PPFQ	X	< L	< W	< ?			D	T	D	L	< L	< L		W	O

PPFQ - as above, hyp rock, pelagy; Qzvt - v wk <0.5mm; Py - crack & dis - very fine btm cnt 15°; PPFQ - may include hb? - but altered now altered to sericite

			27.52	29.88	2.36	CONG	30	0	< W	?			0	D	L	0	0			S	S
						SAND	70														

Cong - granule to medium pebble, av small pebble size, blk carb ls, md & volc SAND - fine-coarse sand & grit size matrix

From (m)	To (m)	Interval (m)	Sample Number
18.90	19.90	1.00	6087311
1990	21.04	1.14	312
21.04	23.77	2.73	313
23.77	2622	2.45	314
2622	27.52	1.30	315
27.52	28.20	0.68	316
at	2820	Blank	317
		Sample	

DRILL HOLE LOG

PROPERTY-HARTLESS JOE

Hole: HJ-08-03 Zone: Page: 3/11

Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																		From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB				SX		PY		MN		LI		BD		FR		ZN		(m)	(m)	(m)	Number
			29.88	31.10	1.22	CONG	X	0	<	1		0				0		D	L	<	T	<	T	-		S		S					
						SAND	30																										
			as previous																														
			31.10	32.00	1.22	CONG	X																										
			32.00	32.32	0.32	MUDS	X	0	<	L		0						0		0		0	<	T		45°		M		S			
			Cong & SAND - as previous; MUDS - thin interbedded black carb md & orange colored md - as seen at 13.41m; 45°																														
			32.32	33.17	0.85	MUDS	X	0	<	L		0						0		0		0		0		40°		M		S			
			33.17	35.06	1.89	CONG	X																										
			MUDS - as above, becomes silty btm half; Cong - blk carb & blk chert md, volc. & minor dk to lt gy ch; SAND in part strong volc.																														
			35.06	38.11	3.05	CONG	X		0	<	W		0						0	D	T		0		0		0		W		S		
						SAND	10																										
			Cong - lt green volc, gray & blk ls, md - blk & gray - blk chert max 7cm. SAND - mainly pale green volc.																														
			38.11	39.25	1.14	CONG	X		0	<	L		0						0	D	T		0		0		0		W		S		
						SAND	10																										
			Cong - as above & SNMb as above, ICR blk silty calc md																														
			39.25	39.63	0.38	CONG	X		0	<	2		0						0		0		0	<	T				M		T		
						SAND	10																										
			- rock lt bwn - blk - sup?, ICR fr & ca vt																														
			39.63	42.68	3.05	CONG	X	<	L	#	2	<	L						0	F	L		0	<	T		-		A		T		
						SAND	10			<	2																						
			Cong - greenish gy & light bwn sup on fc - w: ca - matrix - br - narrow irreg zvt; Qz - vt & ca; below 42.20 - blk lt bwn, vl. clasts to 1m.																														

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 4/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit		Alteration and Mineralization: QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN
			42.68	43.46	0.78	FAUL	X	0	0	# 40			0	0	0	0	-	X	S
						VLO2													
						VL- pale orange bwn; Cb-matrix filling - white to v. pale orange ~40°; VL- insitu below 40.58 (?); br- cb flooding matrix cong?								
			43.46	45.73	2.27	VLO2	X	0	0	< 3			0	DT	0	0	-	S	S
						VL- blc, pale orange; fr(s) cb vt to 2mm; VL?- possible clast in cong. VLO2?								
			45.73	48.78	3.05	CONG	X	< W	< L	< 5			0	0	0	0	-	S	S
						SAND	05											W	
						Cong - blc pale orange to 46.30, below gray green; frder below 46.30; Cb - up to 25mm at top der below, to < 2mm, rare ± qz ± ca; CONG looks like boulder size clasts v/ - Cb-occ fr pale orange; Qzvm - 25mm								
			48.78	51.83	3.05	VLO2	X	0	# 1	> W			0	< W	0	< W	-	W	S
						VLO2			< 1										
						VL- [illegible] - v fine grnd, 15cm band anygd - ca filled < 2mm; near btm 30cm blc en around up to 10mm Cb vn; blc 3hr (cl?) often ca; Cong?								
			51.83	54.88	3.05	VLO2	X	< W	K 2	< W			0	0	0	< T	-	W	S
						VL med green, 3hr bands < 2mm - 25mm - dk color often ca - fair Ca stk - ier to let; Cb vt + qz in wk blc vl;								
			54.88	57.93	3.05	VLO2	X	> W	# 7	< W			0	0	0	< W	-	S	T
									>										
						VL med green, below 56.40 patches fair blc below 57.25 blc orange bwn ier br to 6tm - on cong matrix?; 40° 3hr - up to 25 common; strong blc ca matrix Qzvm - 10mm; Cb vm to 10mm.								
			57.93	58.50	0.57	VLO2	X	< W	< W	< W			0	0	< L	< W	-	S	T
						VL - pale green - wk blc pale orange near btm cnt; Cb vt - white < 3mm ± qz.								

From (m)	To (m)	Interval (m)	Sample Number
54.88	56.40	1.52	G 087318
56.40	57.93	1.53	319
57.93	58.50	0.57	320

0.43m

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 5/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log V	Visual Log S	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit		Alteration and Mineralization: QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN	From (m)	To (m)	Interval (m)	Sample Number	Rec
			58.50	60.63	2.13	FAUL	X	0	0	0			0	0	0	< L	-	X	0	58.50	60.63	2.13	G087321	0.35m.
						VLO2	X																	
						FAUL - v/l at 6tm. md; shrs strong br.																				
			60.63	60.78	0.15	VEIN	X	V 50	< L	V 20			0	0	0	0	-	X	S	60.63	60.98	0.35	322	100%
						MUDS	30																	
						btm cnt approx; VEIN-QZ-CB (70%) in blk carb md; core highly broken;																				
			60.78	60.98	0.20	CHER	X	> 5	0	> 2			0	0	0	0	-	X	S					
						highly broken; CHERT minor VN & blk carb md; rock br. wk qz+cb MV.																				
			60.98	61.59	0.61	CHER	X	> 5	0	< 2			0	0	0	0		X	S	60.98	61.59	0.61	323	0.27m
						MUDS	5																	
						Recovery - 0.27m; ~0.15m dk gy chert up to 7cm, remainder core intense broken - br, minor. md - blk carb; QZ+cb (w) MV;																	
			61.59	62.20	0.61	FAUL	X	0	0	0			0	0	0	0		X	S	61.59	62.20	0.61	324	0.25
																br f/g								
						Recovery 0.25m; looks like flt zone - most v fine frg (clasts) in clay-silt matrix; Ls - blk - redrill pieces, few fragments of ppQz; cnt ppqz																	
			62.20	62.80	0.60	PPQZ	X	0	0	< 3			0	< L	0	0		M	S	62.20	63.11	0.91	325	0.45m.
						Recovery 0.30m; PPQZ - not typical wk (< 1%) qzpho (< 1mm) in av. fine grained matrix, wk pinked & rare < 1cm inclusions - chert & mudstone cbrt < 1mm; blk vt - very fine py - wavy crack filling																	
			62.80	63.11	0.31	PPQZ	X	0	0	0			0	< L	0	0		A	S					
						Rec 0.15m; much rock looks like cave - blk Ls & md sch; qzpho not common, matrix fine grained.																	

DRILL HOLE LOG
PROPERTY-HARTLESS JOE

Hole: HJ-08-03 Zone: Page: 6/11
Northing: Easting: Elevation:
Drilling Dates: Logged by:
Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization														From	To	Interval	Sample	
V	S	(m)	(m)	(m)	(m)			QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN			(m)	(m)	(m)	Number	Rec.
			63.11	63.72	0.61	PPQZ	X	<L	0	<1				<L		<L	-	A	T			63.11	63.72	0.61	G0857326	0.41m
								PPQZ - as prev; cbvt<2mm ± qz; qzvt<0.1mm; fr-blk vfine py																		
			63.72	64.70	0.98	PPQZ	X	<L	0	<2				<L	0	<L	-	A	T			63.72	64.70	0.98	327	0.63m
						MDLS	30																			
						PP- qz phn rare, matrix vf grained, clasts 1cm-25cm blk md ± ls; Cbvt 0.5-4mm av 1mm ± qz; blk fr vf py; btm cnt 70°;																		
			64.70	65.24	0.54	MUDS	X	0	<L	<0.5				0	0	0	0	-	A	S			64.70	65.24	0.54	328	0.50m
			65.24	66.77	1.53	MUDS	X	0	<L	<L				0	DW	0	0	2	5°	M	S		65.24	66.77	1.53	329	
						MD - blk carb, occ dk gy v thin bds; Py - diss in MD;																					
			66.77	67.97	1.20	CONG	X	0	<L	<L				0	DL	0	0	0	A	S			66.77	67.97	1.20	330	
						SAND	10																			
						CONG - mostly blk carb md ± wk alt-blc vl; SN - dk fine sand size																					
			67.97	68.58	0.61	CONG	X	0	<L	<L				0	DL	0	0	-	A	S			67.97	68.58	0.61	331	
						SAND	10																			
						CONG - blk carb md ls mainly, weak banded ch; SAND - pale orange vclc sand size matrix																					
			68.58	69.79	0.79	CONG	X	0	<L	<L				0	DL	0	0	-	A	S			68.58	69.79	1.21	332	
			69.55	69.79	0.24	FAUL	X												X							
						Cong! - blk carb ls ± vclc; SAND - vclc & md sand size matrix FAUL - mod, highly fr-br.																					

DRILL HOLE LOG Hole: HJ 08-03 Zone: Page: 7/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

	Depth:		
	Dip:		
	Azim:		

Visual Log V	S	(m)	From (m)	To (m)	Interval (m)	Unit	QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN	From (m)	To (m)	Interval (m)	Sample Number
			69.79	71.32	1.53	CONG X	0	<	W	<	W	0	DL	0	0	-	A	S	69.79	71.32	1.53	G087333
						SAND 40																
			Cong - ls-md & pale orange volc (alt) & med green volc - up to 30cm diameter																			
			71.32	73.46	2.14	CONG X	<	T	<	3	0	0	DT	0	0	0	M	S				
						SAND 20																
			Cong - pale green volc - up to 1.5m, blk carb md & ls;																			
			73.46	75.29	1.83	CONG X	0	<	2	0		0	DT	0	0	0	M	S				
						SAND 10																
			Cong - volc - mostly, pale green to 1m, minor md, SAND - mainly clay - silt size matrix;																			
			75.29	77.75	2.46	CONG X	0	<	W	<	W	0	DT	0	0	0	M	S	75.29	77.75	2.46	334
						SAND 40																
			Cong - md-blk & ltgy v thin bd, up to 75cm, blk ls & volc; SAND looks in part clay-silt size md & ls; cbvt on shr - 7mm;																			
			77.75	78.33	0.88	PPFQ	0	<	2	0		0	D/L	W	0	0	0	M	S	77.75	78.33	0.58	335
			PPFQ - light gy to v pale orange (fr); wk anhedral fine occ 2mm fx phn; minor qz phn - fine; vcvt 25°; matrix phn - very fine grained; py-xl, fine grained																			
			78.33	80.47	2.14	PPFQ	0	<	W	<	W		<D	W	0	<	T	-	M	S	78.33	80.47	2.14	336
			PPFQ - dcr v wk fx phn, v wk to 3mm qz phn; Py - tcr in blk v fine py on irreg fr																			
			80.47	82.30	1.83	PPQZ	0	<	W	<	T		<D	W	0	<	T	-	A	S	80.47	82.30	1.83	337
			PPQZ - dcr faint phn fx to lacc, tcr qz phn to 5mm ac 1mm; fr tcr offen sllk; dcr blk fr v fine py; since 77.75 - fine xl diss > fr py and 2nd type fr only. blk very fine py - in part sx?																			

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 8/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

| Visual Log | | | From | To | Interval | Unit | | Alteration and Mineralization | | |

DRILL HOLE LOG
PROPERTY-HARTLESS JOE

Hole: HJ-08-03 Zone: Page: 9/11
Northing: Easting: Elevation:
Drilling Dates: Logged by:
Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																		From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB				SX		PY		MN		LI		BD		FR		ZN		(m)	(m)	(m)	Number
			92.66	93.90	1.24	VLO1	X		O	<	L	>	L				O		O		O		O		–		X				92.66	93.90	1.24	G087345
			93.90	93.10	0.10	FAUL	X																										
			VOLC – med-pale green lcr blc to btm – light bwn.																														
			FAUL ±10cm br-bc.																														
			93.90	94.49	0.59	VLO1	X		O		O	<	L				O	<	?		O		O		O		X		O		93.90	94.49	0.59	346
			93.90	94.49	0.59	FAUL	X																										
			VOLC – pale-med orange; FAUL – looks mainly like ac bc-as veinlets																														
			– veins show little displacement;																														
			94.49	97.54	3.05	FAUL	X		/		/		/						?		O		O		O		X		O		94.49	97.54	3.05	347
			94.49	97.54	3.05	VLO1	X																										
			FAUL below 9510 from bc to br – < 3mm av. clasts in a crushed rock																														
			matrix, 40-50° shr; 10cm band blc undistubed volc – misplaced core?																														
			97.54	98.70	1.16	VLO1	X	<	W	<	T	<	1				O		O		O	D	T		O		A		T		97.54	100.58	3.04	348
			98.40	98.70	0.30	FAUL	X																				X						
			97.75 – FAUL – 10cm. br.; FAUL – br, pale orange;																														
			98.70	100.58	1.88	VLO2		<	W	<	2	<	3				O	D	T				O		O		M		S					
			Vlc – med green, often oolitic, 2cm pillows – amygdaloidal; cbvt dcr to lct																														
			covt – to 5mm.																														
			100.58	103.63	3.05	VLO2	X	<	W	<	2	>	W				O	D	T				O		–		W		S		100.58	103.63		349
			Vlc – med-dk green, amygdales 2 pillows 1cm – 8cm diameter in dk green																														
			matrix – cl?; cbmv – up to 15mm + qz – in shr volc.																														
			103.63	106.68	3.05	VLO2	X		O	<	1		O					D	T						–		W							
						CHER	/			P	L																						
			VOLC – dk green gray; amygdales – ca-cl filled, spots to 8cm pillows; chert in																														
			pillow matrix – weak in 5 to 25 cm bands;																														

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 10/11

PROPERTY-HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log			From	To	Interval	Unit		Alteration and Mineralization																		From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)			QZ		CA		CB					SX	PY		MN		LI		BD		FR		ZN		(m)	(m)	(m)	Number
			106.68	109.73	3.05	VLO2	X		0	<	1		0					D	T		0		0		-		W		S				
						CHER	50																										
			VL - pale green & dk green gy; fair band 35cm to 50% irreg thinbds of chert																														
			109.73	112.78	3.05	VLO2	X		0	<	1		0					D	T		0		0		-		W		S	110.25	111.50	1.25	G087350
			111.29	111.41	0.12	VEIN	X	P	90	P	5		0					<	L								70						
			VEIN - volc. inclusions, lct 70° & uct irregular; 110.33-110.82 - band ~7% sht 40-50° up to 1cm qz ± cavt, wk shr around qzvt - start of qzvn																														
			VL - interbanded dk gy green & pillows (to 10cm) often amygdaloidal																														
			111.78	115.82	3.04	VLO2		>	W	K	2	>	W					D	T		0		0		-		W		S				
			VL - pale green pillows in blk green matrix - phy; amyg & oolites to 5mm; Qz mv < 10mm, ± ca ± cb(?); Cb mv - 1cm; 50° pale orange; ca vt - stk (wk)																														
			115.82	118.87	3.05	VLO2			0	K	2		0					D	T		0		0		-		W		S				
										P	L																						
			VL - med green & dk green gy - amyg & oolitic to 3mm - pale green & wk; ca - stk (w) to 10mm av 1-2mm; parallel band vl.																														
			118.87	121.92	3.05	VLO2	X	<	T	#	2		0					D	T		0		0		-		W		S				
			119.50	120.49	0.99	CHER	X																										
			VOLC - wk < 5cm pillows, lt - med green; 121.0 shr - 10° - 0-2mm ca + qz; CH - lt gy to blk, in part replacing vl, fr with ca filling; ca - sht to stk to bc filling																														
			121.92	124.97	3.05	VLO2	X		0	K	4		0					D	T		0		0		-		W		S				
			VL - med green, pillows to 1.5m; ca - stk (w) to bc matrix filling; v wk fine amyg. in vl;																														
			124.97	128.02	3.05	VLO2	X		0	K	3		0					D	T		0		0		-		W		S				
			VL - med green, v fine grained, pillows to ± 2m. ca - gy (incl. volc) stk (w) cavt & later white sht cavt to 3mm;																														

DRILL HOLE LOG Hole: HJ-08-03 Zone: Page: 1 | 11

PROPERTY- HARTLESS JOE Northing: Easting: Elevation:

Drilling Dates: Logged by:

Length: Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

| Visual Log | | | From | To | Interval | Unit | | Alteration and Mineralization | | |

DRILL HOLE LOG

Hole: HJ-08-03 Zone: Page: 1/1

Northing: Easting: Elevation:

PROPERTY - HARTLESS JOE Drilling Dates: Logged by:

Length: 167.34m Core Size: Casing: (m) in/out

Depth:			
Dip:			
Azim:			

Visual Log V	S	(m)	From (m)	To (m)	Interval (m)	Unit	Alteration and Mineralization	From (m)	To (m)	Interval (m)	Sample Number
			149.35	151.49	2.14	VLO2 X	QZ 0 CA K 3 CB 0 SX 0 PY DT 0 MN 0 LI - BD - FR W ZN S	150.00	150.30	0.30	C107912
			150.53	150.59	0.06	VEIN X	QZ P 50 CA P 10 CB 0 SX 0 FR 80				
						VEIN: silicified shr vls up to 10mm mV+ca; VLC - pale green pillows 2-50cm av 5cm; fair oolites					
			150.59	154.53	3.94	VLO2 X	CA K 2 CB 0 SX 0 PY DT 0 MN 0 LI - FR W ZN S				
						VLC - med green, aphanitic - hbl phn or alt fx, pillows - 2cm to 75cm av. 5-10cm; ca - up to 1cm mV most <1mm irreg stb; VLC - not to no oolites.					
			154.53	157.58	3.05	VLO2 X	CA K 2 CB 0 SX 0 PY < W MN 0 LI 0 BD - FR W ZN S				
						CHER 05					
						VLC med green, porphyritic, v fine - fine fx & px(?) 50cm band pillows - 2-10cm.; no oolites; 15cm blk to gy chert band; shr ~40° c(?) 5mm; wk xl py					
			157.58	160.63	3.05	VLO2 X < W K 1 CB 0 SX 0 PY DT MN 0 LI 0 BD - FR W ZN S					
						CHER 03					
						VLC - ltr-med green, wk matrix - looks fine - coarse, blocky vl; no oolites, vl - fx & px(?) phn fine grned; 2x narrow irreg < 5cm bands of chert;					
			160.63	163.68	3.05	VLO2 X CA K 1 CB 0 SX 0 PY D W MN 0 LI 0 BD - FR W ZN S					
						CHERT 07					
						VLC - med green wk fine fx & px(?) phn in micro xl matrix; 50cm band - pillows to 3cm, often looks like frg rocks in a block matrix; CH - gy frgs, patches to 8cm; py - chert, most on fr ± ca					
			163.68	166.72	3.04	VLO2 X < W K 1 < W < W MN 0 LI 0 BD - FR W ZN S					
						CHER 01					
						VOLC - med green v fine grained, occ patch clouded fine fx phn; vt - <3mm cb + qz + ca; Py - fr + ca vt					
			166.72	167.34	0.62	VLO2					
						as above					
						167.34 E.O.H					

PROPERTY: **HOLE:** HJ08-03

Struct.		LITHOLOGY								ALT.			MINERALS				SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
																											REC		RQD									
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
																								0.00	3.05	3.05	0.02	1%	0.3	11%							
																								3.05	4.88	1.83	0.27	15%	0	0%							
																								4.88	5.49	0.61	0.39	64%	0.2	25%							
																								5.49	6.40	0.91	0.37	41%	0	0%							
																								6.40	7.32	0.92	0.70	76%	0.2	23%							
																								7.32	7.93	0.61	0.27	44%	0	0%							
																								7.93	9.76	1.83	2.63	144%	0.3	16%							
																								9.76	11.59	1.83	1.09	60%	0.1	5%							
																								11.59	13.40	1.81	1.36	75%	0	0%							
																								13.40	14.02	0.62	0.39	63%	0	0%							
																								14.02	15.15	1.13	0.86	76%	0	0%							
																								15.15	16.77	1.62	0.44	27%	0.4	22%							
																								16.77	17.68	0.91	0.65	71%	0.1	11%							
																								17.68	17.99	0.31	0.29	94%	0	0%							
																								17.99	18.90	0.91	0.94	103%	0	0%							
																								18.90	21.04	2.14	0.65	30%	0.5	23%							
																								21.04	22.87	1.83	0.48	26%	0.5	25%							
																								22.87	23.80	0.93	0.67	72%	0	0%							
																								23.80	26.22	2.42	2.57	106%	0.4	18%							
																								26.22	27.13	0.91	1.02	112%	0.4	43%							
																								27.13	28.96	1.83	1.52	83%	0.7	40%							
																								28.96	29.88	0.92	0.52	57%	0	0%							
																								29.88	31.10	1.22	0.97	80%	0	0%							
																								31.10	32.32	1.22	0.62	51%	0	0%							
																								32.32	35.06	2.74	2.03	74%	0.5	18%							
																								35.06	36.59	1.53	0.52	34%	0.1	8%							
																								36.59	38.11	1.52	1.48	97%	0.6	38%							
																								38.11	39.63	1.52	10.80	711%	0.3	18%							
																								39.63	42.68	3.05	2.12	70%	1.5	49%							
																								42.68	45.73	3.05	1.08	35%	1.2	38%							
																								45.73	48.78	3.05	2.47	81%	0.1	2%							
																								48.78	51.83	3.05	0.52	17%	1.8	60%							
																								51.83	54.88	3.05	0.59	19%	1.7	56%							
																								54.88	57.93	3.05	2.85	93%	1.6	53%							
																								57.93	60.98	3.05	0.96	31%	0	0%							
																								60.98	61.59	0.61	0.16	26%	0	0%							
																								61.59	62.20	0.61	0.17	28%	0	0%							
																								62.20	62.80	0.60	0.16	27%	0	0%							
																								62.80	63.11	0.31	0.05	16%	0	0%							
																								63.11	63.72	0.61	0.36	59%	0	0%							
																								63.72	65.24	1.52	0.79	52%	0	0%							
																								65.24	66.77	1.53	1.04	68%	0	0%							
																								66.77	67.97	1.20	0.57	47%	0	0%							
																								67.97	68.58	0.61	0.43	70%	0	0%							
																								68.58	69.79	1.21	0.68	56%	0	0%							
																								69.79	71.32	1.53	1.25	82%	0.1	9%							
																								71.32	73.46	2.14	1.56	73%	0.1	6%							
																								73.46	75.29	1.83	1.39	76%	0.2	12%							
																								75.29	78.33	3.04	2.21	73%	0.5	15%							
																								78.33	80.47	2.14	1.77	83%	0.2	7%							
																								80.47	82.30	1.83	1.45	79%	0.1	7%							
																								82.30	85.34	3.04	1.68	55%	0.9	30%							
																								85.34	87.17	1.83	1.48	81%	0	0%							
																								87.17	90.22	3.05	1.93	63%	0	0%							
																								90.22	91.44	1.22	0.79	65%	0	0%							
																								91.44	92.66	1.22	0.65	53%	0	0%							

PROPERTY: **HOLE:** HJ08-03

| Struct. | | LITHOLOGY | | |

095188

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 the Hart 1-28 mineral claims on Claim Sheet 105D/15 is accurate.

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 10th day of December 2008.

Notary Public, Yukon Territory

Statement of Expenditures
Hart 1-28 Mineral Claims
December 7, 2008

Contract Diamond Drilling

Beaudoin Diamond Drilling Ltd.	$113,367.30
Helicopter support	
Capital Helicopters – 63 hours Bell 206B at $1,025/hr plus fuel	77,223.25
Trans North Helicopters – 6.1 hours Bell 205 at $2,375/hr plus fuel	20,583.96
ALS Chemex	3,751.43
	$214,925.94

Total drilling in three holes was 612 m or $351.19/m.

HJ08-01	246.85 m on Hart 1	$ 86,690.31
HJ08-02	197.81 m on Hart 2	69,468.14
HJ08-03	167.34 m on Hart 2	58,767.49
	612.	$214,925.94

BEAUDOIN DIAMOND DRILLING LTD.
2041 Urquhart Ave.
Courtenay, British Columbia V9N 3K8
Canada

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Invoice No.: 113
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1016-510 W. Hastings St.
Vancouver, BC, V6B 1L8

Business No.: 842828568

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 24 - 25, 2008 Mobilization of crew and equipment			
1.			Mobilization	G		1,000.00
2.	48	Hour	From staging area to first drill hole	G	70.00	3,360.00
			Subtotal:			4,360.00
			G - GST 5%			
			GST			218.00

Comments
OK'd by WSE July 24, 2008

Freight	0.00
Total Amount	4,578.00

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Business No.: 842828668

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 26 - 30, 2008 DDH# HJ-08-01			
1.	6.7	Meter	Casing	G	102.00	683.40
2.	244.8	Meter	Coring	G	102.00	24,969.60
3.	124	Hour	Man field rate	G	70.00	8,680.00
4.	10.5	Hour	Equipment field rate	G	100.00	1,050.00
5.	4	Day	Supply pump	G	100.00	400.00
6.	3	Day	Coil stove	G	100.00	300.00
7.	2	Each	BTW 10' rod 100%	G	150.00	300.00
8.	1	Each	Blue polymer	G	190.00	190.00
9.	1	Each	Gold polymer	G	190.00	190.00
10.	2	Each	Rod grease	G	115.00	230.00
11.			15% S/H on items 7 - 10	G		136.50
			Subtotal:			37,129.50
			G - GST 5%			
			GST			1,856.48

Comments OK to Pay WBE July 23, 2008

Freight 0.00

Total Amount 38,985.98

BEAUDOIN DIAMOND DRILLING LTD.
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Invoice No. 115
Date 12/07/2008
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Vancouver, BC, V6B 1L8

Business No.: 842826568

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			July 1 - 5, 2008 DDH# HJ-08-02			
1.	3.1	Meter	Casing	G	102.00	316.20
2.	194.8	Meter	Coring	G	102.00	19,869.60
3.	148	Hour	Man field rate	G	70.00	10,360.00
4.	24.5	Hour	Equipment field rate	G	100.00	2,450.00
5.	2	Day	Supply pump	G	100.00	200.00
6.	3	Day	Supply pump X 2	G	200.00	600.00
7.	1	Each	BTW 10' rod	G	150.00	150.00
8.	1	Each	Linseed soap	G	100.00	100.00
9.	1	Each	555	G	190.00	190.00
10.			15% S/H on items 7 - 9	G		66.00
			Subtotal:			34,301.80
			G - GST 5%			
			GST			1,715.09

Comments OK to pay WDE July 23, 2008

Freight 0.00

Total Amount 36,016.89

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Invoice No. 116
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Business No.: 842828568

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			July 6 - 9, 2008 DDH# HJ-08-03			
1.	3.1	Meter	Casing	G	102.00	316.20
2.	164.3	Meter	Coring	G	102.00	16,758.60
3.	111	Hour	Man field rate	G	70.00	7,770.00
4.	27	Hour	Equipment field rate	G	100.00	2,700.00
5.	3	Day	Pump X 2	G	200.00	600.00
6.	2	Each	BTW 10' rod	G	150.00	300.00
7.	1	Each	BW casing shoe	G	285.00	285.00
8.			15% S/ H on items 6, 7	G		87.75
			Subtotal:			28,817.55
			G - GST 5%			
			GST			1,440.88

Comments OKe by WBE July 13, 2008

Freight	0.00
Total Amount	30,258.43

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Business No.: 842828568

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			July 10, 2008 Demobilization to Whitehorse			
1.	48	Hour	Man field rate	G	70.00	3,360.00
			Subtotal:			3,360.00
			G - GST 5%			
			GST			168.00

Comments OK'd by WJE July 30, 2008

Freight	0.00
Total Amount	3,528.00

CAPITAL HELICOPTERS (1995) INC.

CHARTER AND CONTRACT SERVICE
#3 - 25 Pilgrim Pl. Whitehorse, Yukon Y1A 6E6
Phone: (867) 668-6200 Fax: (867) 668-6201
capitalheli@polarcom.com

FLIGHT TICKET
INVOICE № 10378

GST # R 899587984

CHARTERER: ARCHER CATHRO	PILOT: Andy Roberton		DATE: June 18/08
	SIGNATURE:		AIRCRAFT: FCHQ
	CHEQUE	CASH / CHARGE	TYPE: BH06
TELEPHONE / POSTAL CODE	PURCHASE ORDER NO.		BASE

CUSTOMER FUEL	FLIGHT ITINERARY	PASS	TIME
LITRES FROM	YXY- Joe Mtn s/u e p/u -YXY		.9
LITRES FROM			
CAPITAL FUEL 102.6 LITRES FROM @ $	HARTLESS JOE		
LITRES FROM @ $			
LITRES FROM @ $	Heather Smith Heather Smith		

OTHER CHARGES DESCRIPTION	AMOUNT	RATE PER HOUR $ 1025.00	TOTAL	.9
		PASSENGERS		
PILOT EXPENSES DESCRIPTION	AMOUNT	Heather + 2		

FLIGHT	$ 922.50
FUEL	$ 181.60
OTHER	$ 1104.10
GST	$ 55.21
TOTAL	$ 1159.30

AUTHORIZED BY (print)

SIGNATURE X

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	1	hrs	S/O + P/U YXY-Joe Mtn.-YXY	G		1,025.00	1,025.00
	114	ltrs	fuel@YXY	G		1.77	201.78
			G - GST 5.00%				
			GST				61.34

61.34
1226.78
1288.12

Capital Helicopters (1995) Inc. GST: #899587984

Thank You! Your Business Is Appreciated!

COMMENTS

TOTAL 1,288.12

CAPITAL HELICOPTERS (1995) INC.

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FLIGHT TICKET
INVOICE № 10874

GST # R 899587984

CHARTERER: ARCHER CATHRO	PILOT: Andy Robertson		DATE: June 25/08
	SIGNATURE:		AIRCRAFT: FCHQ
	CHEQUE	CASH / CHARGE	TYPE: 3 H06
TELEPHONE / POSTAL CODE	PURCHASE ORDER NO.		BASE

CUSTOMER FUEL	FLIGHT ITINERARY	PASS	TIME
609.4 LITRES FROM	YXY – Mds in drill to Joe Mtn		8:6
LITRES FROM	& move crews.		
CAPITAL FUEL 361 LITRES FROM YXY @ $			
LITRES FROM @ $			
LITRES FROM @ $			

OTHER CHARGES DESCRIPTION	AMOUNT			
		RATE PER HOUR $ 1025.00	TOTAL	8:6
		PASSENGERS 3 ~~PAX~~	FLIGHT	$ 8815.00
PILOT EXPENSES DESCRIPTION	AMOUNT		FUEL	$ 638.97
			~~OTHER~~	$ 9453.97
A/C S. HARTLESS JOE			GST	$ 472.70
AUTHORIZED BY (print)			TOTAL	$ 9926.67
SIGNATURE X				

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FLIGHT TICKET
INVOICE NO 10331

GST # R 899587984

CHARTERER Archer Cathro	PILOT Andy Robertson		DATE June 26/08
	SIGNATURE		AIRCRAFT FCHQ
	CHEQUE / CASH / CHARGE		TYPE Bell 206
TELEPHONE	POSTAL CODE	PURCHASE ORDER NO.	BASE

CUSTOMER FUEL	FLIGHT ITINERARY	PASS	TIME
LITRES FROM	Crew s/o & p/u to drill		
LITRES FROM	sling hose & core boxes to drill		
	move pump & equip		3 9
CAPITAL FUEL 444 LITRES FROM @ $ 1.77			
LITRES FROM @ $			
LITRES FROM @ $			

OTHER CHARGES DESCRIPTION	AMOUNT	RATE PER HOUR $ 1025.00	TOTAL	3 9
		PASSENGERS		
PILOT EXPENSES DESCRIPTION	AMOUNT			

FLIGHT	$ 3997.50
FUEL	$ 786.94
~~OTHER~~	$ 4784.44
GST	$ 239.22
TOTAL	$ 5023.66

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	1.9	hrs	S/O dayshift, sling coil, heaters and propane, move diesel to drill	G		1,025.00	1,947.50
	0.7	hrs	P/U YXY--drill-shuttle crew-waterline-YXY	G		1,025.00	717.50
	296.4	ltrs	fuel@YXY	G		1.77	524.63
							3189.63
			G - GST 5.00% GST				159.49

A Hart NA-0Y

A R

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 3,349.12

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	1.4	hrs	YXY-crew change to drill @Joe Mtn.	G		1,025.00	1,435.00
	160.0	ltrs	fuel@YXY	G		1.77	283.20
							1718.20
			G - GST 5.00% GST				85.91

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 1,804.11

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	3	hrs	YXY-S/o and P/U to drill sling 2 loads drill rods and fuel to drill	G		1,025.00	3,075.00
	342	ltrs	fuel@YXY	G		1.77	605.34
			G - GST 5.00% GST				3680.34 184.02

Capital Helicopters (1995) Inc. GST: #899587984

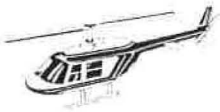
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COMMENTS

TOTAL 3,864.36

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	7.3	hrs	YXY-S/O and P/U Cap Crk.Drill-YXY YXY-Cousins-sling-shuttle night crew-sling-YXY	G		1,025.00	7,482.50
	422.2	ltrs	fuel@YXY	G		1.77	~~747.29~~ 747.79
			G - GST 5.00% GST				411.49

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 8,641.28

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	3.3	hrs	YXY-Cap Crk Drill-sling water pump hose line-shuttle crew-sling empty propane tanks and fuel barrels-YXY Sling diesel for drill-YXY	G		1,025.00	3,382.50
	376.2	hrs	fuel@YXY	G		1.77	665.87 4048.37
			G - GST 5.00% GST				202.42

Capital Helicopters (1995) Inc. GST: #899587984

Thank You! Your Business Is Appreciated!

COMMENTS

TOTAL 4,250.79

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	0.8	hrs	YXY-Cap Crk Drill- S/O and P/U shift change	G		1,025.00	820.00
	91.2	ltrs	fuel@YXY	G		1.77	~~161.42~~ 981.42
			G - GST 5.00% GST				49.07

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 1,030.49

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	2.4	hrs	YXY-Cap Crk-Recci-move water pump and line to YXY-sling propane-YXY-Shift Change	G		1,025.00	2,460.00
	273.6	ltrs	fuel@YXY	G		1.77	484.27
			G - GST 5.00% GST				2944.27 147.21

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 3,091.48

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	3.2	hrs	YXY-Crew changes to Joe Mtn. Sling water pump move coil, stove and propane	G		1,025.00	3,280.00
	364.8	ltrs	fuel@YXY	G		1.77	645.70
			G - GST 5.00% GST				196.29

Capital Helicopters (1995) Inc. GST: #899587984

Thank You! Your Business Is Appreciated!

COMMENTS

TOTAL 4,121.99

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CAPITAL HELICOPTERS (1995) INC.
Suite 3 - 25 Pilgrim Place, Whitehorse, Y.T. Y1A 6E6
Phone: (867) 668-6200 Fax: (867) 668-6201
capitalheli@polarcom.com



Charter and Contract Service

INVOICE

NO. 10888

DATE 04/07/2008

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
July 4	1.9	hrs	YXY-crew change to Hartless Joe drill, poor weather	G		1,025.00	1,947.50
July 5	2.5	hrs	YXY-crew change sling 2 loads of core to YXY	G		1,025.00	2,562.50
	501.6	ltrs	fuel@YXY	G		1.77	887.83
			G - GST 5.00% GST				269.90

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 5,667.73

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	2.3	hrs	YXY-Crew Change-bad weather- Cap Crk-YXY-Crew Cange-night shift-YXY	G		1,025.00	2,357.50
	262.2	ltrs	fuel@YXY	G		1.77	~~464.09~~ 282.09
			G - GST 5.00% GST				141.08

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 2,962.67

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DATE 07/07/2008

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
July 7	2.6	hrs	YXY-shift change-fuelpumps-YXY split-Cap Crk-sling core-YXY-sling diesel-sling core and empty drums YXY-shift change-fuel pumps-YXY	G		1,025.00	2,665.00
July 8	1.6	hrs	YXY-shift change- fuel pumps-YXY YXY-shift change fuel pumps-YXY	G		1,025.00	1,640.00
	478.8	ltrs	fuel@YXY	G		1.81	866.63
			G - GST 5.00% GST				258.58
			A HARTLESS JOE				

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 5,430.21

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	2	hrs	YXY-Shift change- sling x 2 core split Rosy- P/U crew splite Rosy-YXY	G		1,025.00	2,050.00
	228	ltrs	fuel@YXY	G		1.81	412.68
			G - GST 5.00% GST				123.13
			HARTLESS JOE				
			Capital Helicopters (1995) Inc. GST: #899587984				
						TOTAL	2,585.81

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	11.7	hrs	YXY-S/O crew-demob sling Cap crk-Cousins strip-P/U crew-YXY	G		1,025.00	11,992.50
	228.0	ltrs	fuel@YXY	G		1.81	412.68
			G - GST 5.00%				
			GST				620.26

A ↖ HARTLESS JOE

Capital Helicopters (1995) Inc. GST: #899587984

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COMMENTS

TOTAL 13,025.44

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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

INVOICE NUMBER 1804207

BILLING INFORMATION

Certificate:	**VA08126562**
Sample Type:	**Drill Core**
Account:	**RCM**
Date:	**27-SEP-2008**
Project:	HARTLESS JOE
P.O. No.:	HJ-08-01, HJ-08-02
Quote:	
Terms:	**Net 30 Days** C1
Comments:	

QUANTITY	ANALYSED FOR CODE - DESCRIPTION		UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
71	PREP-31	Crush, Split, Pulverize	4.91	348.61
207.50	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.49	101.68
71	Au-AA26	Ore Grade Au 50g FA AA finish	17.40	1,235.40
71	ME-ICP41	35 Element Aqua Regia ICP-AES	4.91	348.61
71	GEO-AR01	Aqua regia digestion	2.44	173.24

SUBTOTAL (CAD)	$	2,230.04
R100938885 GST	$	111.50
TOTAL PAYABLE (CAD)	**$**	**2,341.54**

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

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

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North Vancouver BC V7J 2C1

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ALS Canada Ltd.
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North Vancouver BC V7J 2C1
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To: **ATAC RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

INVOICE NUMBER 1816741

BILLING INFORMATION

Certificate:	**VA08129713**
Sample Type:	**Drill Core**
Account:	**RCM**
Date:	**3-OCT-2008**
Project:	Hartless Joe
P.O. No.:	HJ-08-03
Quote:	
Terms:	**Net 30 Days** C1
Comments:	

QUANTITY	ANALYSED FOR CODE -	DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
43	PREP-31	Crush, Split, Pulverize	4.91	211.13
91.58	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.49	44.87
43	Au-AA26	Ore Grade Au 50g FA AA finish	17.40	748.20
43	ME-ICP41	35 Element Aqua Regia ICP-AES	4.91	211.13
43	GEO-AR01	Aqua regia digestion	2.44	104.92

SUBTOTAL (CAD)	$	1,342.75
R100938885 GST	$	67.14
TOTAL PAYABLE (CAD)	**$**	**1,409.89**

To: **ATAC RESOURCES LTD.**
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Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

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