

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 -510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND DIAMOND DRILLING

at the

ARN PROPERTY

Arn 1-8	YB06323-YB06330
9-14	YB27511-YB27516
15-18	YB38261-YB38264
19-28	YC19631-YC19640
29-68	YC25958-YC25997
69	YC30011
70-74	YD09006-YD09010

NTS 115F/15

Latitude 61°58'N; Longitude 140°41'W

in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

MIDNIGHT SUN MINING CORP.

by

O.Fu, B.Sc.

April 2011

CONTENTS

	<u>PAGE</u>
INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY	2
GEOMORPHOLOGY	3
REGIONAL GEOLOGY	4
PROPERTY GEOLOGY	5
ALTERATION	6
MINERALIZATION	7
SOIL GEOCHEMISTRY	8
DIAMOND DRILLING	9
DISCUSSION AND CONCLUSIONS	11
REFERENCES	13

APPENDICES

- I STATEMENT OF QUALIFICATIONS
- II SAMPLING AND ANALYTICAL PROCEDURES
- III CERTIFICATES OF ANALYSIS
- IV GEOLOGICAL AND GEOTECHNICAL LOGS

FIGURES

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claim Locations	1
3	Historical Workings	2
4	Tectonic Setting	4
5	Regional Geology	4
6	Property Geology	5
7	Arn West Detailed Geology	5
8	Gold Rock Geochemistry	7
9	Copper Rock Geochemistry	7
10	Zone Q Compilation - A	8
11	2010 Soil Sample Locations	9
12	Gold Soil Geochemistry	9
13	Copper Soil Geochemistry	9
14	Diamond Drill Hole Plan View	9
15	Zone Q Compilation - B	10
16	ARN-10-01 Cross-Section	10
17	ARN-10-02 & ARN-10-03 Cross-Sections	10
18	ARN-10-04 & ARN-02-04 Cross-Sections	10

TABLE

<u>No.</u>	<u>Description</u>	<u>Page</u>
I	Regional Lithological Units	4
II	Property Lithological Units	5
III	Alteration Types within Arn West	7
IV	Anomalous Rock Sample Thresholds	7
V	Significant Trench Results from Zone Q	8
VI	Anomalous Soil Sample Thresholds	9
VII	Drill Hole Data	10

INTRODUCTION

The Arn property covers a number of gold±copper skarn showings within the Kluane Ranges of southwestern Yukon. The property is owned by Midnight Sun Mining Corp.

This report describes a field program conducted between June 15 and July 7, 2010 by Archer, Cathro & Associates (1981) Limited on behalf of Midnight Sun. The program consisted of geochemical sampling and diamond drilling. The author interpreted all data from this project and his Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Arn property consists of 74 contiguous mineral claims located approximately 216 km northwest of Haines Junction, at latitude 61°58'N and longitude 140°41'W on NTS map sheet 115F/15 (Figure 1). The property covers an area of approximately 1532 ha (15.32 sq. km.). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Midnight Sun. Claim data are listed below while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Arn 1-8	YB06323-YB06330	March 31, 2029
9-14	YB27511-YB27516	March 31, 2029
15-18	YB38261-YB38264	March 31, 2029
19-28	YC19631-YC19640	March 31, 2029
29-68	YC25958-YC25997	March 31, 2025
69	YC30011	March 31, 2022
70-74	YD09006-YD09010	February 16, 2012

*Expiry dates include 2010 work which has been filed for assessment credit but not yet accepted.

The south-central portion of the claim block is partially overlapped by Class A lands belonging to the White River First Nation. The mineral claims covered by this overlap were staked prior to the land withdrawal and the Whitehorse Mining Recorder asserts that the mineral rights are consequently not impaired by the land claim.

The property is located 10 km southeast of White River Lodge, which is accessible via the Alaska Highway. The lodge lies 375 km northwest of Whitehorse and 80 km southeast of Beaver Creek, the closest community. A gravel road runs from the Alaska Highway, up Sanpete Creek to within nine kilometres of the Arn property. An old bulldozer trail extends six kilometres further, to within three kilometres of the property. The closest year-round helicopter base is located at Haines Junction.

In 2010, access was provided by a Hughes 500D helicopter operated by Fireweed Helicopters Ltd. from a temporary base at the White River Lodge. An Astar B2 helicopter operated by Kluane Helicopters from its year-round base in Haines Junction assisted with some drill moves. All personnel stayed at the White River Lodge.

MIDNIGHT SUN MINING CORP.

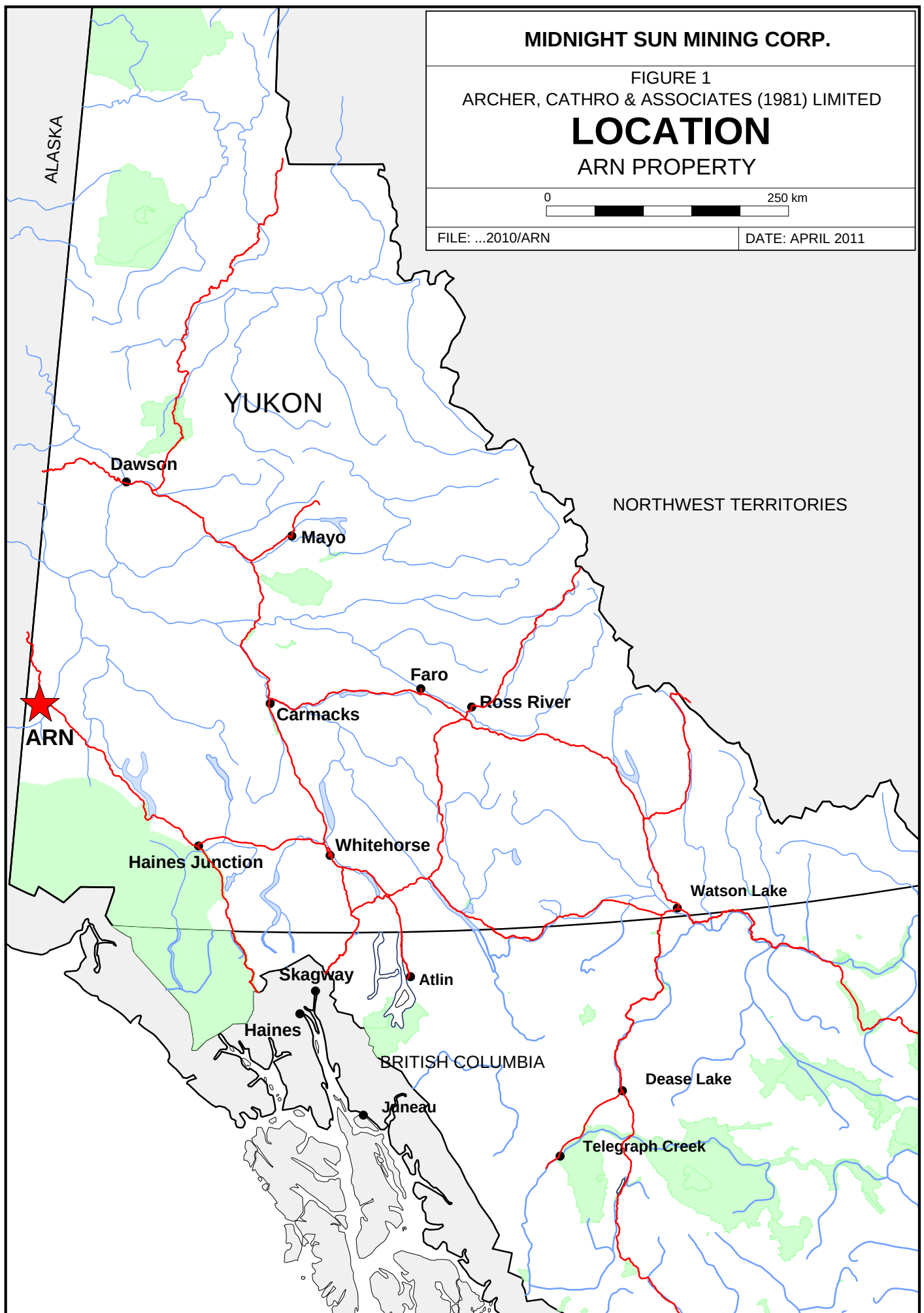
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

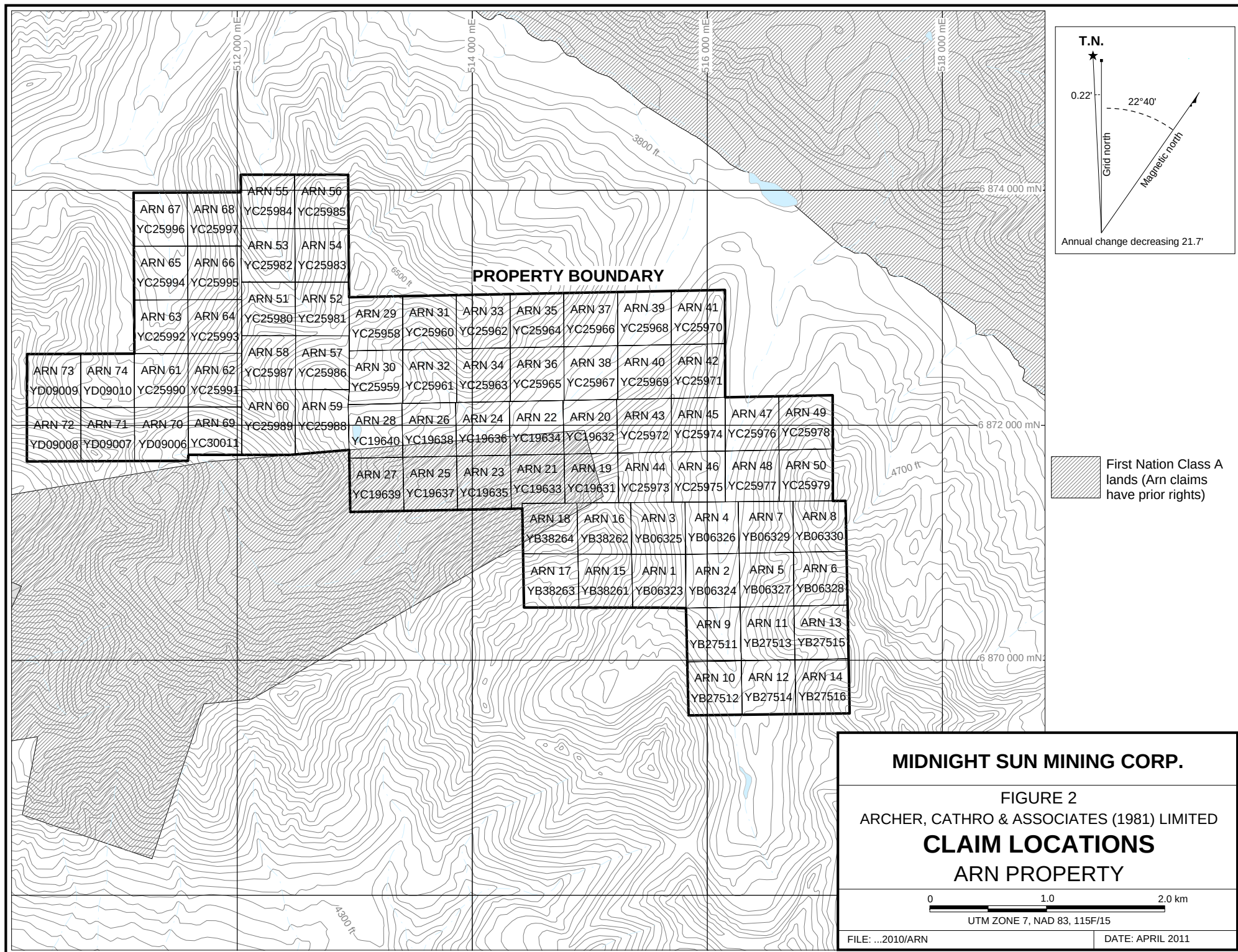
LOCATION
ARN PROPERTY

0 250 km

FILE: ...2010/ARN

DATE: APRIL 2011





HISTORY

The exploration history of the Arn property dates back to the 1970s and is documented in Yukon Minfile as entries 115F 048 and 049 (Deklerk, 2004). Figure 3 shows areas where pre-2010 exploration was done and the location of known mineral zones. The following paragraphs summarize the work history.

A number of groups conducted reconnaissance-scale exploration for copper in the Kluane Ranges during the late 1960s and early 1970s. One of these groups, a syndicate composed of Imperial Oil Ltd., Bow Valley Industries Ltd. and Canadian Industrial Gas and Oil Ltd., staked part of the area now covered by the Arn property. There is no record of work performed or results obtained.

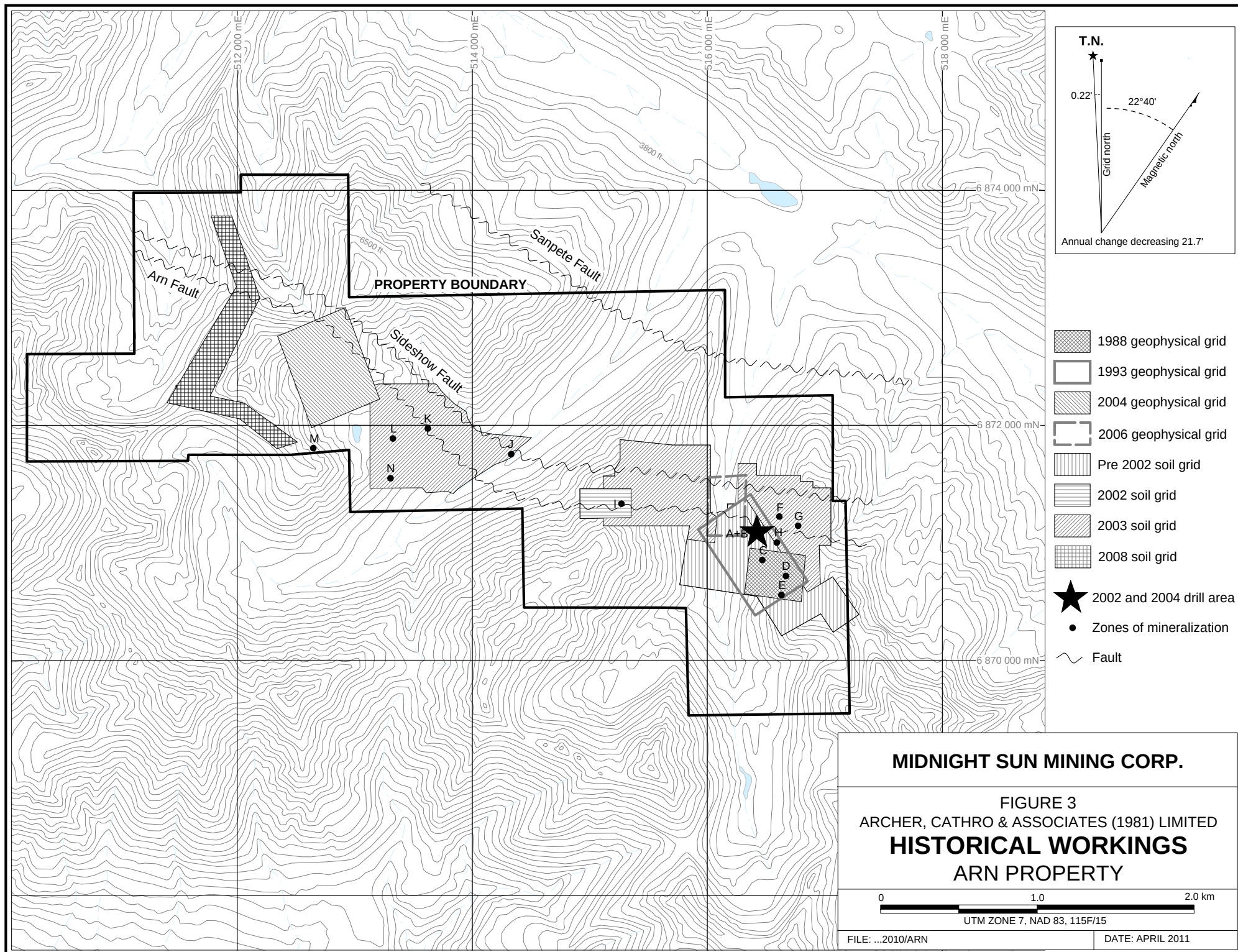
The area was again explored but not staked by Nat Joint Venture (Chevron Canada Ltd. and Armco Mineral Exploration Co.) in 1980 on the basis of anomalous gold values obtained from previously collected stream sediment samples (Archer and Onasick, 1980). Although follow up prospecting in 1981 and 1982 yielded rock specimens that assayed between 1 and 7 g/t gold and numerous strongly anomalous soil values, no further exploration was undertaken (Onasick and Archer, 1981 and Eaton and Nelson, 1982).

In 1987, Kluane Joint Venture (All-North Resources Ltd. and Chevron Minerals Ltd.) staked the first eight claims comprising the Arn property. That joint venture conducted geological, geochemical, ground magnetic and very low frequency electromagnetic (VLF-EM) surveys in 1988. That work identified a 700 m long belt of anomalous gold and copper soil geochemical values and identified three mineralized skarn zones. The best chip sample from these zones assayed 23.3 g/t gold over 3 m (Main, 1989). Kluane Joint Venture sold its interest in the property to a private syndicate, Acne Joint Venture, in 1990.

In 1993, Mendocino Resources Ltd. optioned the property and explored with additional geological, geochemical and geophysical surveys plus hand trenching. The work expanded the gold and copper soil geochemical anomalies to encompass an area 1200 m long and up to 500 m wide. It also yielded encouraging assays from chip samples, the best of which returned 79.2 g/t gold and 0.18% copper over 3 m (Copeland et al., 1993). Despite the positive results, Mendocino subsequently dropped its option.

Nordac Resources Ltd. (now Strategic Metals Ltd.) purchased the property in 1996 and performed prospecting, soil geochemistry and hand trenching in 1998. This program identified additional gold- and copper-bearing skarn showings and traced some of the better grade float to source. The highest grades reported from chip samples across bedrock exposed in hand trenches were 15.1 g/t gold with 0.20% copper over 2.5 m and 4.3 g/t gold with 6.21% copper over 1.5 m (Carne, 1999).

ATAC optioned the Arn property from Strategic Metals in February 2002. During June 2002, ATAC drilled four diamond drill holes with a total length of 181.67 m, and conducted soil sampling and prospecting. This was followed by additional prospecting and claim staking in August 2002 (Eaton, 2003 and Power, 2003).



In November 2002, ATAC purchased the property from Strategic Metals. In 2003, ATAC staked more claims and continued to explore by geological mapping, prospecting, grid and reconnaissance soil geochemistry, hand trenching and drill pad construction (Wengzynowski, 2003).

In June 2004, the property was optioned to Klondike Gold Corp., which staked one additional claim and performed geological mapping, hand trenching, ground magnetic surveys and 1003.72 m of diamond drilling in 18 holes (Becker, 2005). All diamond drilling was done at Zones A and B in the eastern part of the claim block. The remainder of the work was mostly done in the vicinity of Zones K, L, M and Q in the western part of the property.

In spring 2006, ATAC optioned the property to Nyah Resources Ltd. In July 2006, a two person crew working for Archer Cathro cut and surveyed lines on three grids: one covering Zones A and B, and the other two in the vicinity of Zones K, L and M. In late July and August, a geophysical crew employed by Aurora Geosciences Ltd. performed IP surveys across both grids (Wengzynowski, 2007).

In March 2008, ATAC optioned the property to Auger Resources Ltd., which funded a two phase exploration program. The first phase consisted of property-wide helicopter-borne magnetic and VTEM surveys that were flown by Geotech Ltd. The second phase was performed by Archer Cathro personnel, and comprised geological mapping, prospecting and geochemical sampling. In early 2009, ATAC contracted Condor Consulting Inc. to process and analyze data from the magnetic and VTEM surveys.

In spring 2009, Auger's option was terminated and later ATAC purchased 100% of the net smelter return royalty interest that Strategic Metals held on the property.

In early 2010, Midnight Sun Capital Corp. (successor company to Midnight Sun Mining Corp.) purchased the Arn 1-69 claims from ATAC. Later that spring, Midnight Sun bought the Arn 70-74 claims at cost from Archer Cathro.

GEOMORPHOLOGY

The Arn property is located near the northeastern limit of the St. Elias Mountains about six kilometres southwest of the Shakhwak Valley. The property lies immediately northwest of Mount Taylor, a local promontory peaking at 2190 m. Elevations on the claim block range from about 1300 m to 1980 m. Topography in creek valleys consists of meandering, actively eroding creek beds, flanked by moraine terraces that are partially overlain by broad talus fans. Slopes are moderate to steep, typically varying between 20° and 45°.

Most of the property is above tree line. Vegetation ranges from stunted spruce and mature willow thickets along the creek beds, to scattered buckbrush and grass on the lower slopes, and ultimately to open talus slopes and cliffs at higher elevations.

Miles and Sanpete creeks drain the claims. Both creeks flow into the White River, which is part of the Yukon River watershed.

REGIONAL GEOLOGY

The Arn property lies within the Wrangellia tectonic element of the northern Cordillera (Figure 4). Wrangellia is an ancient island arc assemblage of basic to intermediate volcanic, fine grained pelitic clastic and minor carbonate lithologies intruded by post-accretionary intrusive rocks.

The most recent mapping in the vicinity of the Arn property was completed at 1:50,000 scale by Israel and Cobbett (2007) as shown on Figure 5. The regional stratigraphy in the area of the property is summarized in Table I.

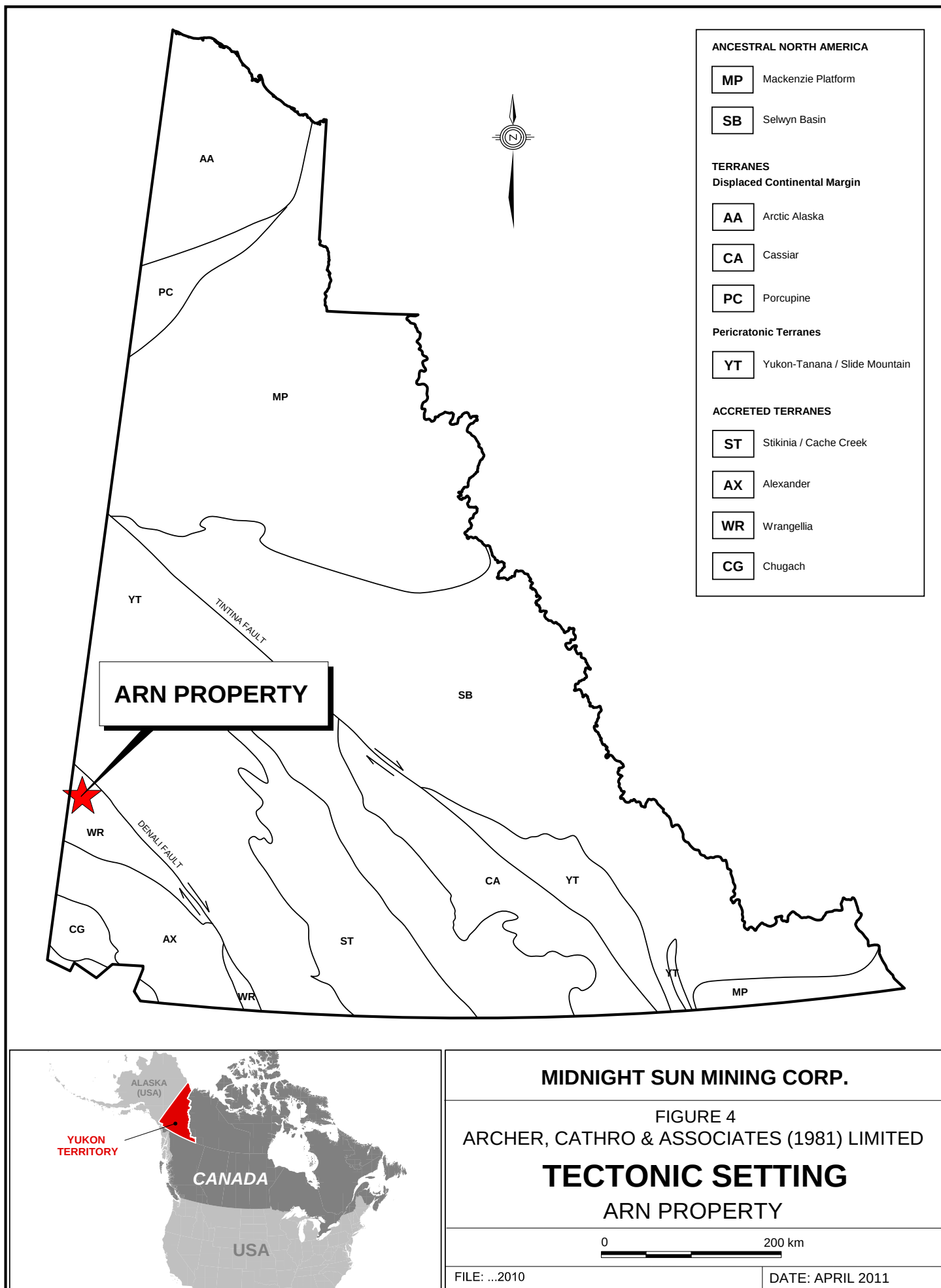
Table I - Regional Lithological Units*

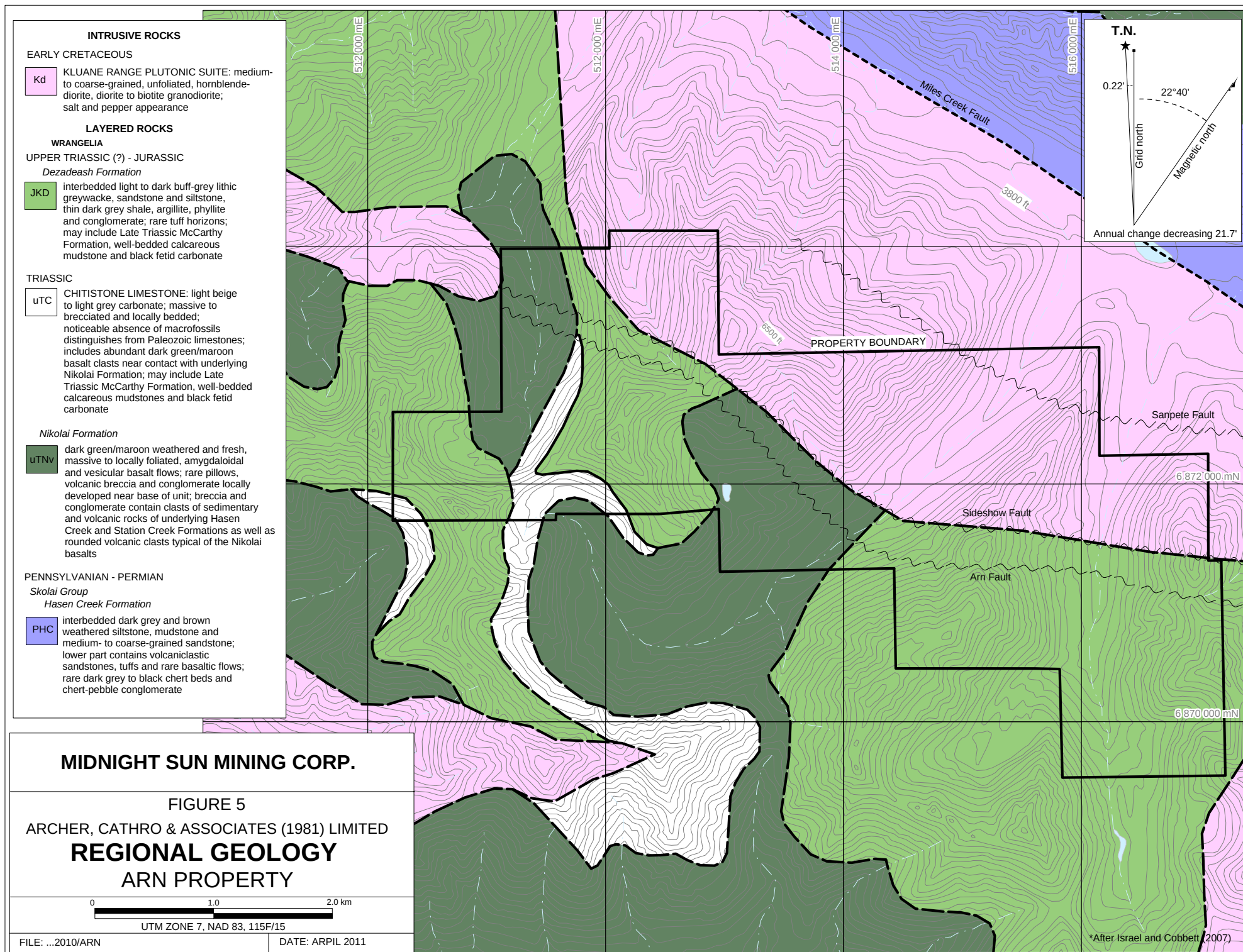
FORMATION OR UNIT	AGE	DESCRIPTION (ABBREVIATION)
Overburden	Quaternary to Holocene	Overburden: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits; talus at high elevations. (Q)
Kluane Range Plutonic Suite	Lower Cretaceous	Intrusive rocks: light grey weathering, medium grained, hornblende diorite and hornblende-biotite-quartz diorite. (Kd)
Dezadeash Formation	Lower Cretaceous	Clastics: interbedded light to dark buff grey lithic greywacke, sandstone, siltstone, dark grey shale, argillite, phyllite and conglomerate; rare tuff. (JKD)
Chitistone Formation	Upper Triassic	Carbonates: pale grey to beige, massive to well bedded limestone and calcareous argillite. (uTC)
Nikolai Formation	Upper Triassic	Volcanics: subaerial to submarine basalt flows typically less than 2 m thick with minor amounts of basal volcanic conglomerate and breccia; locally includes dark grey phyllite and minor thin grey limestone of Middle Triassic. (uTNv)
Skolai Group	Pennsylvanian – Lower Permian	Volcanic and sedimentary rocks: tuff, breccia, argillite, agglomerate, augite basaltic to andesitic flows (Station Creek Formation); succeeded by thin bedded argillite, siltstone, minor greywacke and conglomerate and local thin basaltic flows (Hasen Creek Formation). (PHC)

* after Israel and Cobbett (2007) and Gordey and Makepeace (1999)

The dominant geological structure in the vicinity of the Arn property is the Denali Fault (DF). This continental-scale fault system extends from the Queen Charlotte Islands in British Columbia through Yukon and into western Alaska. The DF originally developed along a northeast dipping subduction zone but the sense of displacement changed from mainly compressional to transpressional at the end of the Cretaceous (65 Ma). Approximately 350 km of right lateral displacement occurred along the fault zone during Late Cretaceous and Miocene times. The fault trace is centred approximately seven kilometres northeast of the Arn property, striking northwesterly into Alaska. In detail, the DF consists of anastomosing, steeply dipping faults in an overburden covered band approximately two kilometres wide.

Three phases of deformation are recognized in rocks south of the DF (the tectonic block containing the Arn property). The oldest event is documented in the Hasen Creek Formation





which appears to have undergone pre-Middle Triassic deformation. All sedimentary and volcanic units in the block were affected by Late Jurassic to Early Cretaceous compression that produced northeast- and southwest-verging overturned folds. Subsequent movement on the DF resulted in numerous steep faults, extensional and compressional basins, and some local refolding (Israel and Cobbett, 2007).

PROPERTY GEOLOGY

Outcrop on the Arn property is abundant on the upper slopes of ridges, particularly on the walls of cirques, but is rare on lower slopes and along valley bottoms, where moraine terraces and broad talus fans are prevalent. For the purposes of this report, the property has been divided into two parts: Arn East and Arn West. Figure 6 illustrates the property geology after Main (1989), Copeland et al., (1993), Carne (1999), Eaton (2003), Becker (2005) and Smith (2009). Geology in the part of Arn West where most 2010 work was done is shown at 1:10,000 scale on Figure 7.

The four main lithologies mapped on the property are listed in Table II. Geology in the Arn West area is described in the paragraphs that follow the table.

Table II – Property Lithological Units

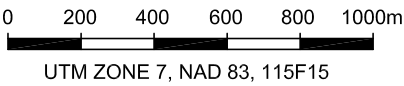
FORMATION OR UNIT	AGE	DESCRIPTION (ABBREVIATION)
Overburden	Quaternary to Holocene	Glacial deposits, talus and fluvial sediments (Q).
Kluane Range Plutonic Suite	Lower Cretaceous	Andesite and felsite dykes cut by diorite stocks and dykes (KRPS).
Dezadeash Formation	Lower Cretaceous	Mudstone, siltstone and sandstone with minor interbedded andesite flows (DFSD).
Chitistone Formation	Upper Triassic	Limestone (CHLS).
Nikolai Formation	Upper Triassic	Basalt and andesite flows (NFVC).

Nikolai Formation volcanic rocks (NFVC is equivalent to uTNv in regional geology) are the oldest exposed unit and underlie most of Arn West area. This unit consists of dark green, amygdaloidal to massive basalt flows containing up to 40% amygdules, mainly filled with calcite and chlorite. Minor amounts of light grey-green porphyritic andesite are also present. These rocks often contain 1 to 2 mm feldspar phenocrysts. Bedding has not been observed in either the basalt or the andesite. The base of NFVC is not exposed so exact thickness is not known; however, a cross-section through the property by Israel and Cobbett (2007) interprets NFVC to be approximately 600 m thick.

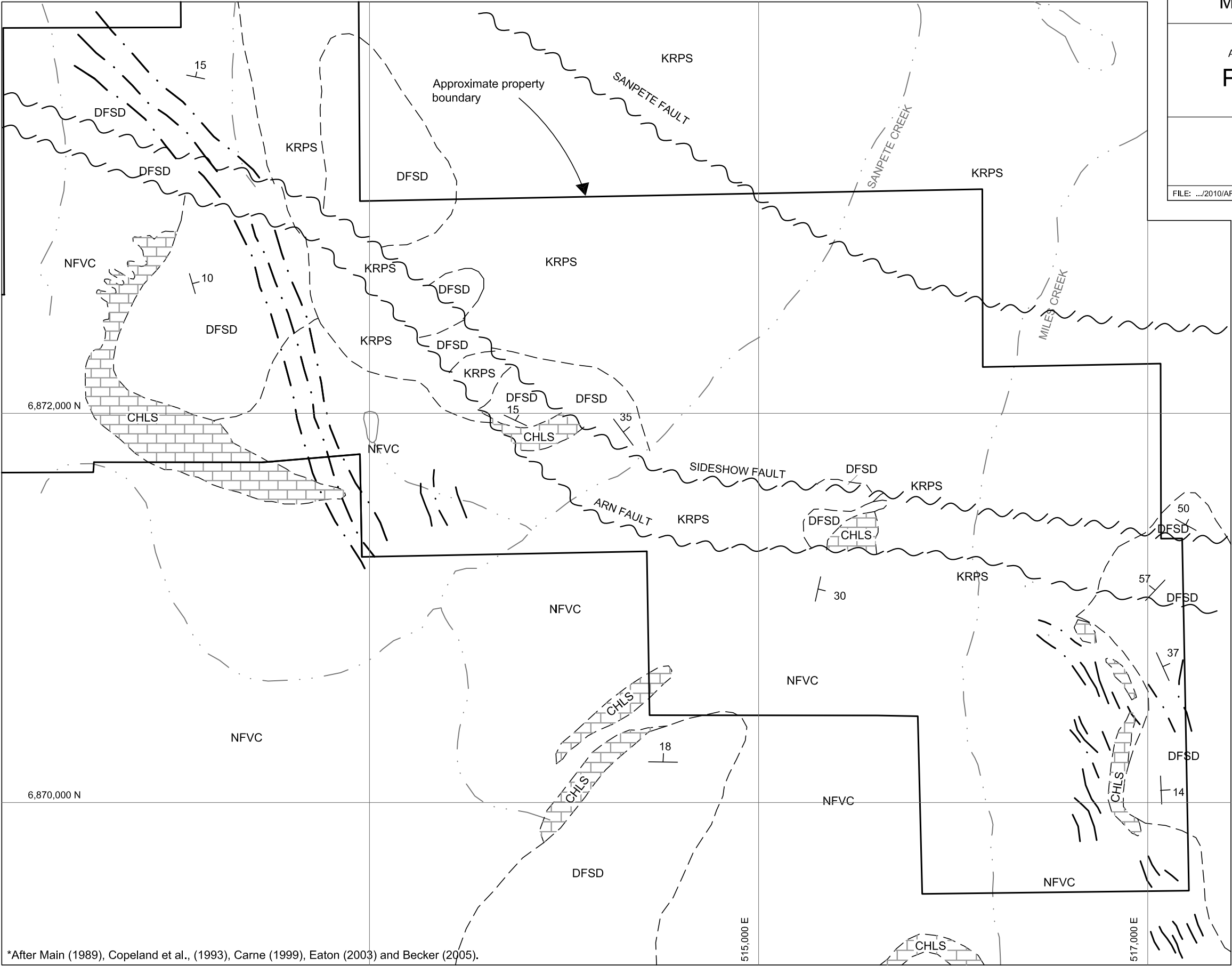
Chitistone Formation limestone (CHLS is equivalent to uTC in regional geology) forms discontinuous lenses that unconformably overlie NFVC. The limestone in the Arn West area is bound by NFVC on the south and west and by clastic sediments (DFSD) on the north and east.

MIDNIGHT SUN MINING CORP.

FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
ARN PROPERTY

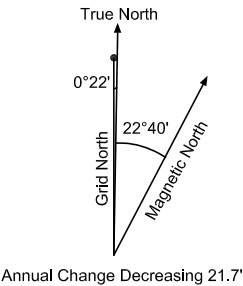


FILE: .../2010/ARN DATE: APRIL 2011

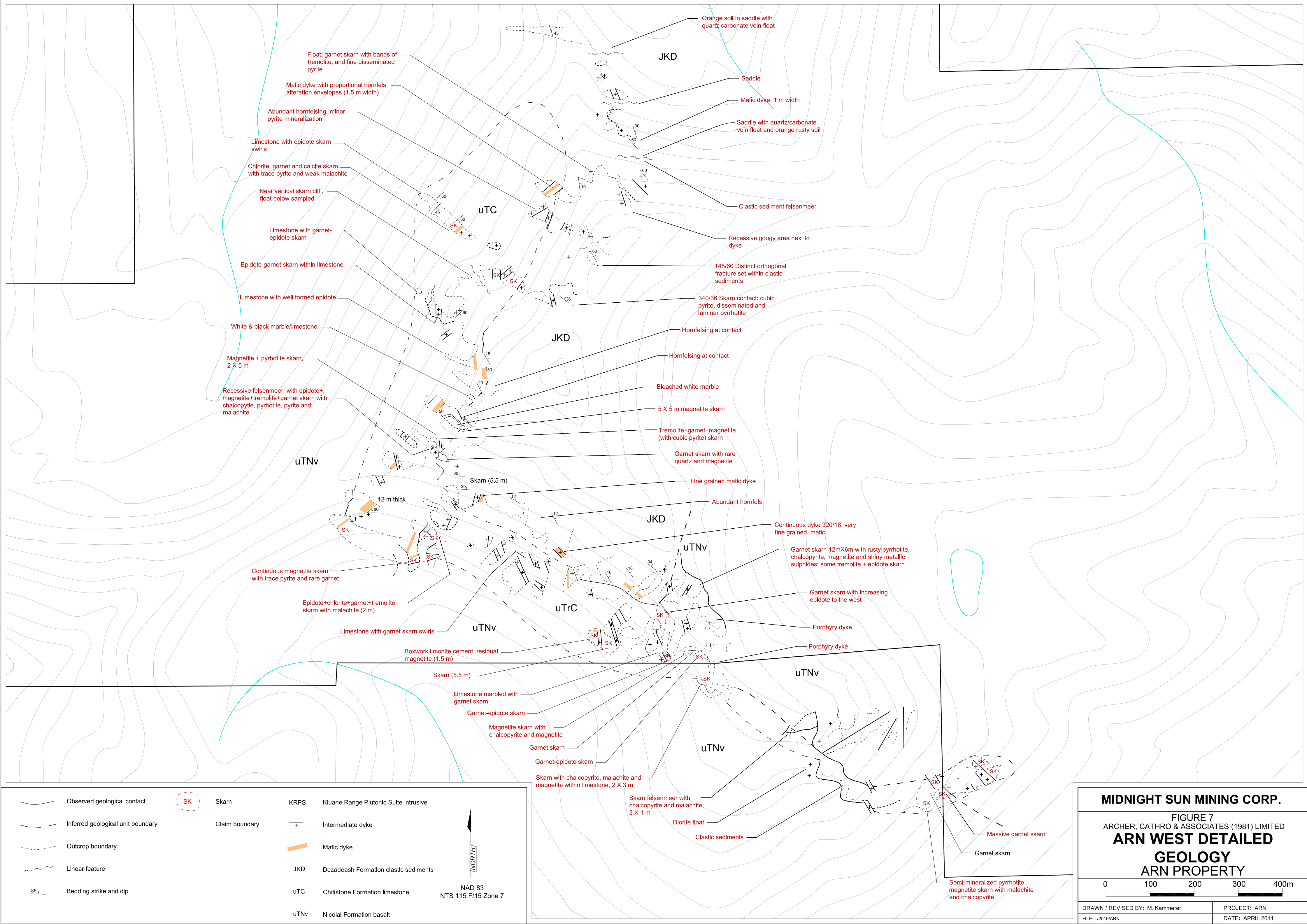


~ High angle fault

- Cretaceous
- KRPS** Kluane Range Plutonic Suite
 - Kluane Range Plutonic Suite - dykes
 - DFSD** Dezadeash Formation - clastic sediments
- Upper Triassic
- CHLS** Chitistone Formation - limestone
 - NFVC** Nikolai Formation - basalt



*After Main (1989), Copeland et al., (1993), Carne (1999), Eaton (2003) and Becker (2005).



MIDNIGHT SUN MINING CORP.

FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**ARN WEST DETAILED
GEOLOGY**
ARN PROPERTY

0 100 200 300 400m

DRAWN / REVISED BY: M. Kammerer PROJECT: ARN
FILE:../2010/ARN DATE: APRIL 2011

Elsewhere in the district, CHLS typically forms lenses up to 1200 m long but usually less than 30 m thick. The CHLS is unusually thick in Arn West, reaching a maximum thickness of about 90 m. The limestone is locally cut by diorite dykes (KRPS). Away from intrusive contacts, the limestone is light to medium grey, slightly recrystallized and generally massive. Near intrusive contacts it is commonly altered forming massive, medium to coarse grained marble.

Dezadeash Formation rocks (DFSD is equivalent to JKD in regional geology) consist mainly of thin bedded, siliceous mudstone to siltstone alternating with fine sandstone. Colour varies widely between adjacent beds in shades of white, cream, black and pale to dark green. Graded bedding is common and indicates the sequence is upright. Bedding measurements strike between 090° and 150° and dip 12° to 34° NE in the most parts of Arn West but beds in the north part steepen to 60°.

Kluane Range Pluton Suite rocks (KRPS is equivalent to Kd in regional geology) include swarms of andesitic dykes, rarer felsite dykes and an apparently younger diorite package comprising a stock and numerous dykes. Most of the dykes trend 120° to 160° and dip steeply to the southwest. Age relations are usually uncertain because dykes of similar mineralogy and texture appear to crosscut each other. However, in a few places andesite dykes truncate against diorite intrusions.

KRPS andesites are subdivided into three facies. The most distinctive and abundant of which is plagioclase-hornblende porphyry dykes (KRA1) containing up to 20% phenocrysts averaging 0.5 to 1.2 cm long. In some dykes, hornblende forms distinctive radiating twins of interlocking crystals. Where KRPS rocks contain fewer (3 to 5%) and smaller (<2 mm long) plagioclase phenocrysts. They are considered to be a different facies (KRA2). With decreasing phenocryst size and abundance, this unit grades into slightly porphyritic to non-porphyritic andesite exhibiting a predominantly medium to dark green groundmass (KRA3).

Structure on the Arn property is dominated by the west-northwest striking, steeply dipping Arn, Sideshow and Sanpete faults, which all are located northeast of the Arn West area. These faults strike generally parallel to the DF. All three of them have been traced across the length of the property. They sometimes juxtapose differing lithologies but the magnitude and direction of displacement cannot be determined from the available data.

ALTERATION

Alteration on the property has most recently been described in detail by Wengzynowski (2008). Skarn and hornfels alteration is developed in sedimentary and volcanic rocks and is thought to be associated with KRPS intrusions. The shape of skarn zones is variable but most are tabular to sheet-like horizons ranging from less than a metre to a few tens of metres thick. They also occur as irregular lenses, on selvages of veins and possibly as vertical bodies alongside permeable structures. The most favourable locations for development of skarn mineralization are intersections between dykes and chemically reactive horizons, particularly CHLS. Alteration observed within Arn West is described in Table III.

Table III - Alteration Types within Arn West*

SKARN TYPE	MINERALIZATION	DESCRIPTION
Garnet	Minor pyrite and pyrrhotite	60-90% garnet with pale pink-brown euhedral crystals. Interstitial calcite, epidote and lesser magnetite, clinopyroxenite, hornblende, actinolite, tremolite and quartz.
Mixed	Chalcopyrite and gold	>50% skarn minerals with no particular one dominating. Varying amounts of garnet, mafic minerals and sulphides with interstitial calcite, quartz and epidote.
Magnetite	Pyrite and chalcopyrite	70% magnetite with pyrite and chalcopyrite.
Epidote	Unknown	Abundant recrystallized, medium to coarse grained accessory calcite and locally abundant quartz and actinolite. This late alteration overprints all rocks.
Pyrrhotite	Pyrrhotite and chalcopyrite	80% pyrrhotite with intergrown magnetite and actinolite. Minor garnet, epidote and chalcopyrite. Weathers easily to limonite.

* after Wengzynowski (2008).

MINERALIZATION

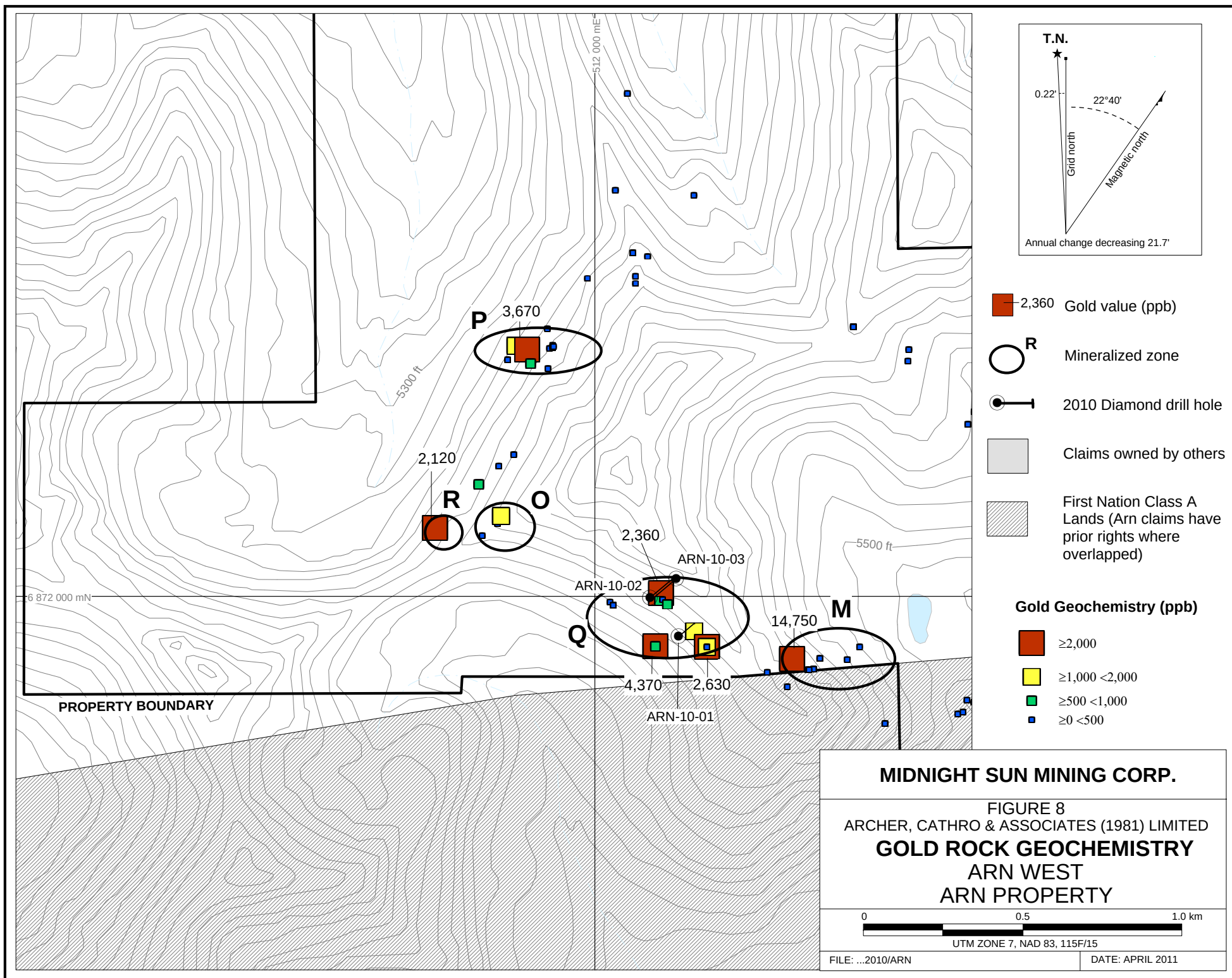
Arn West encompasses several mineral occurrences, but Zone Q was the only one that received work in 2010. Background information for the known zones, which appears in the following paragraphs, was taken from Wengzynowski (2008). Figures 8 and 9 illustrate thematic data for gold and copper respectively. Anomalous thresholds used to describe rock values are listed in Table IV.

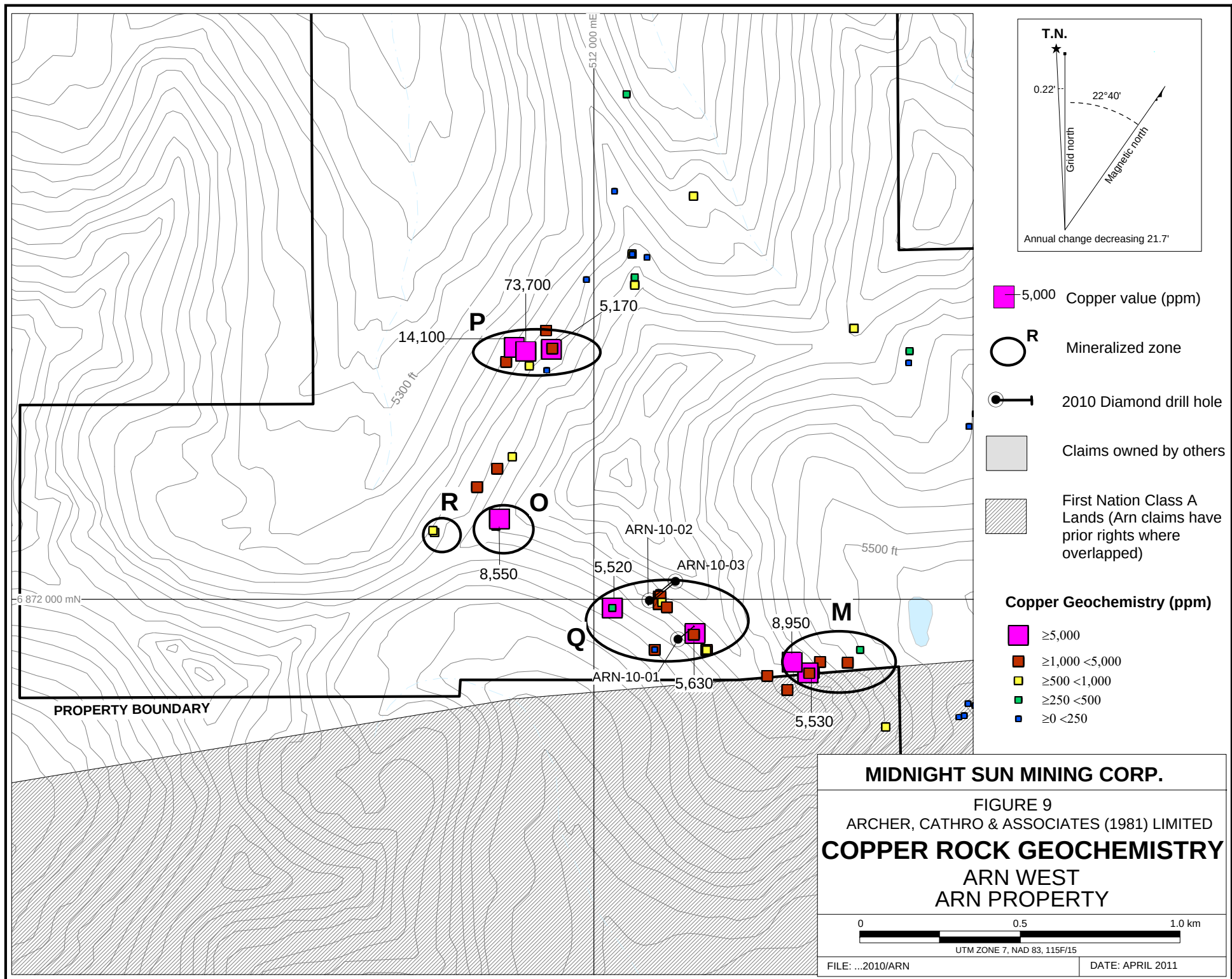
Table IV - Anomalous Rock Sample Thresholds

ELEMENT	WEAK	MODERATE	STRONG
Gold	$\geq 0.2 < 0.5$ g/t	$\geq 0.5 < 1.0$ g/t	$\geq 1.0 < 4.4$ g/t
Copper	$\geq 0.05 < 0.10\%$	$\geq 0.10 < 0.50\%$	$\geq 0.50 < 7.4\%$

Zone M is partially exposed on cliff walls on the northeast side of the main ridge in Arn West. This skarn zone is developed in NFVC alongside one of four, 1 to 10 m wide KRPS dykes. These dykes strike south-southeasterly and dip steeply to the west. This zone is characterized by garnet skarn with varying amounts of pyrrhotite, chalcopyrite, pyrite and magnetite. Historical samples ranged from 1.26 to 7.73 g/t gold with moderate copper values up to 0.55%.

Zone O lies about one kilometre west of Zone M, near the crest of a ridge that separates two cirques. Several KRPS dykes cut through CHLS creating garnet- and or magnetite-rich skarns. Mineralization is confined to the skarns and consists of cubic pyrite with disseminated chalcopyrite and rare malachite and blebby pyrrhotite. Sampling has returned values up to 1.44 g/t gold with 0.86% copper.





Zone P is located 600 m north of Zone O. Several narrow andesite dykes cut through a thick section of CHLS forming prominent garnet and epidote skarn zones with actinolite-calcite-chlorite lenses. The skarn zones contain locally abundant chalcopyrite, minor pyrite and magnetite, and rare pyrrhotite. Most skarns in this zone are 1 to 2 m thick but some range up to 10 m thick, with thickness directly proportional to the size of associated dykes. Samples collected during previous programs have returned up to 3.67 g/t gold and 7.37% copper.

Zone Q is located on the south side of a main southeast trending ridge, which bisects Arn West. It consists of a 400 m long by 20 to 60 m wide skarn zone developed along the contact between a large body of CHLS and NFVC, both of which are cut by a number of KRPS porphyry dykes. The main skarn is an epidote over-printed garnet assemblage with minor calcite, magnetite, pyrite, pyrrhotite and chalcopyrite. A secondary skarn assemblage of magnetite with minor chalcopyrite and malachite is locally dominant. Garnet-epidote skarn exposures are often strongly weathered to boxwork limonite while magnetite skarn lenses generally form bulbous, resistant knolls with strong brown-orange weathering surfaces. Some marble and silicified rocks were also noted in this zone. Figure 10 shows 2004 and 2008 chip sample sites along the skarn trend. Table V lists weight average grades across the best mineralized intervals.

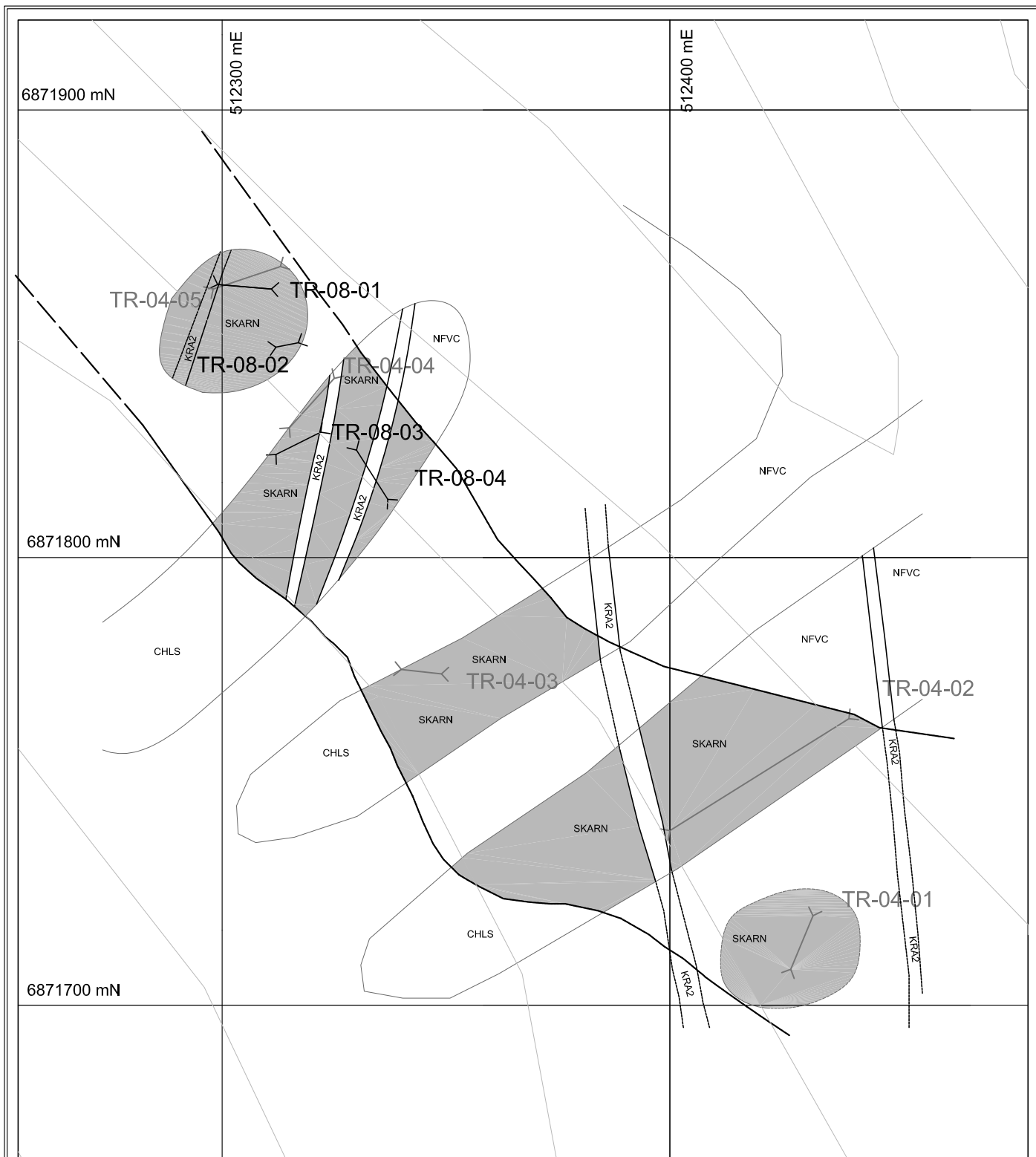
Table V – Significant Trench Results from Zone Q

Trench #	Interval (m)	Gold (g/t)	Copper (%)
TR04-01	12.0	0.34	0.23
TR04-02	28.0	1.20	0.08
including	8.0	3.03	0.19
TR04-04	13.5	0.96	0.11
TR-04-05	15.5	1.62	0.11
TR-08-01	12.0	1.39	0.07
including	3.0	4.37	0.20
TR-08-02	10.5	0.93	0.11
TR-08-03	6.0	0.50	0.19
TR-08-04	5.5	0.86	0.29

Zone R is a skarn horizon 200 m southwest of Zone O. This zone is exposed over a 40 by 22 m area and consists of CHLS to the east and a 3.5 m wide KRPS dyke to the west. Skarn mineralogy is dominantly magnetite with minor epidote and garnet. All surfaces are coated with a bright yellow limonite stain. Mineralization consists of minor pyrrhotite, pyrite and chalcopyrite, occurring as fine disseminations and hairline fracture fillings. Chip samples from this zone have returned values up to 2.12 g/t gold and 0.86% copper over 3.5 m.

SOIL GEOCHEMISTRY

Previous geochemical sampling on the Arn property included contour, grid and reconnaissance soil sampling. The property was sampled at various times between 1988 and 2008 by different operators. Interpretation of the results showed a strong correlation between gold and copper



* See text for unit descriptions.

TR-04-04 2004 Hand trench

TR-08-01 2008 Hand trench

Skarn outcrop
Extent of sulphide skarn, known and inferred
Lithological contact, known and inferred

MIDNIGHT SUN MINING CORP.

FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZONE Q COMPILATION
ARN PROPERTY

0 20 m 50 m 100 m
UTM ZONE 7, NAD 83, 115F15

FILE: ...2010/ARN

DATE: APRIL 2011

values, which were weakly to strongly anomalous in the eastern and western parts of the claim block.

In 2010, a total of 79 contour soil samples were collected in the western-most part of the property, using hand-held soil augers. Sample locations and results for gold and copper are plotted thematically on Figures 11 to 13 respectively. Sampling and Analytical Procedures for 2010 samples are provided in Appendix II, while Certificates of Analysis are given in Appendix III. Anomalous thresholds used to describe soil values are listed in Table VI.

Table VI - Anomalous Soil Sample Thresholds

ELEMENT	WEAK	MODERATE	STRONG	PEAK
Gold	≥100 <200 (ppb)	≥200 <500 (ppb)	≥500 (ppb)	7,450 (ppb)
Copper	≥250 <500 (ppm)	≥500 <1,000 (ppm)	≥1,000 (ppm)	27,600 (ppm)

The 2010 soil samples yielded background to highly anomalous values for gold, with the two best samples returning 205 and 851 ppb. Copper values were weakly to moderately anomalous (up to 562 ppm).

Overall, the soil geochemical data defines a discontinuous gold anomaly with weaker, intermittent copper support in the western-most part of the property. The most anomalous gold value could be an extension of the high gold results previously obtained in the vicinity of Zone R, 400 m to the northeast.

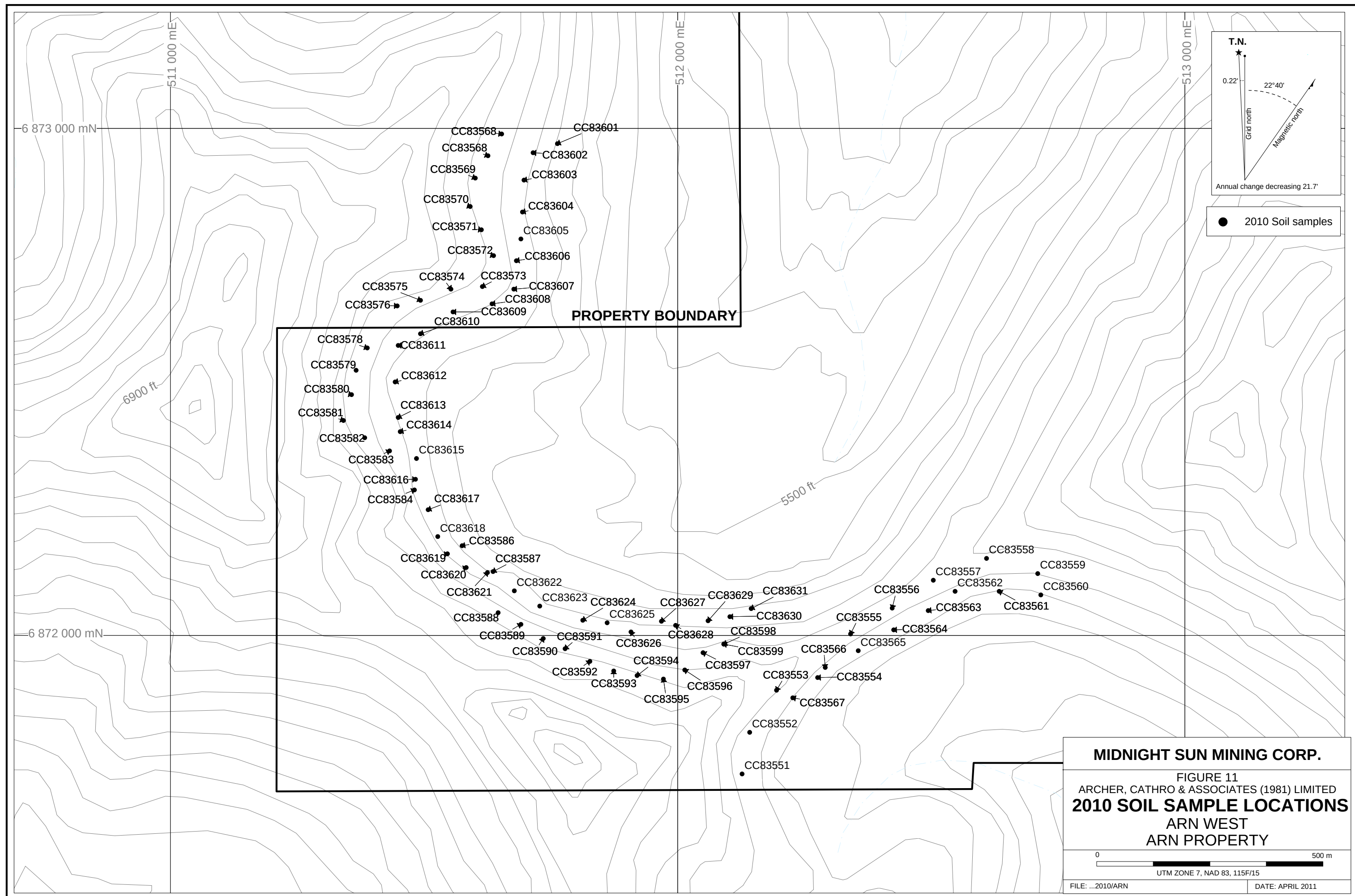
DIAMOND DRILLING

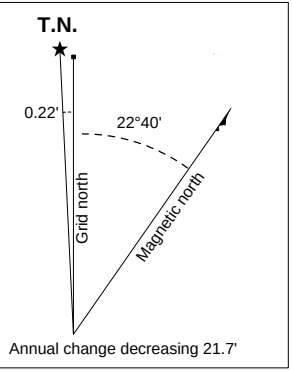
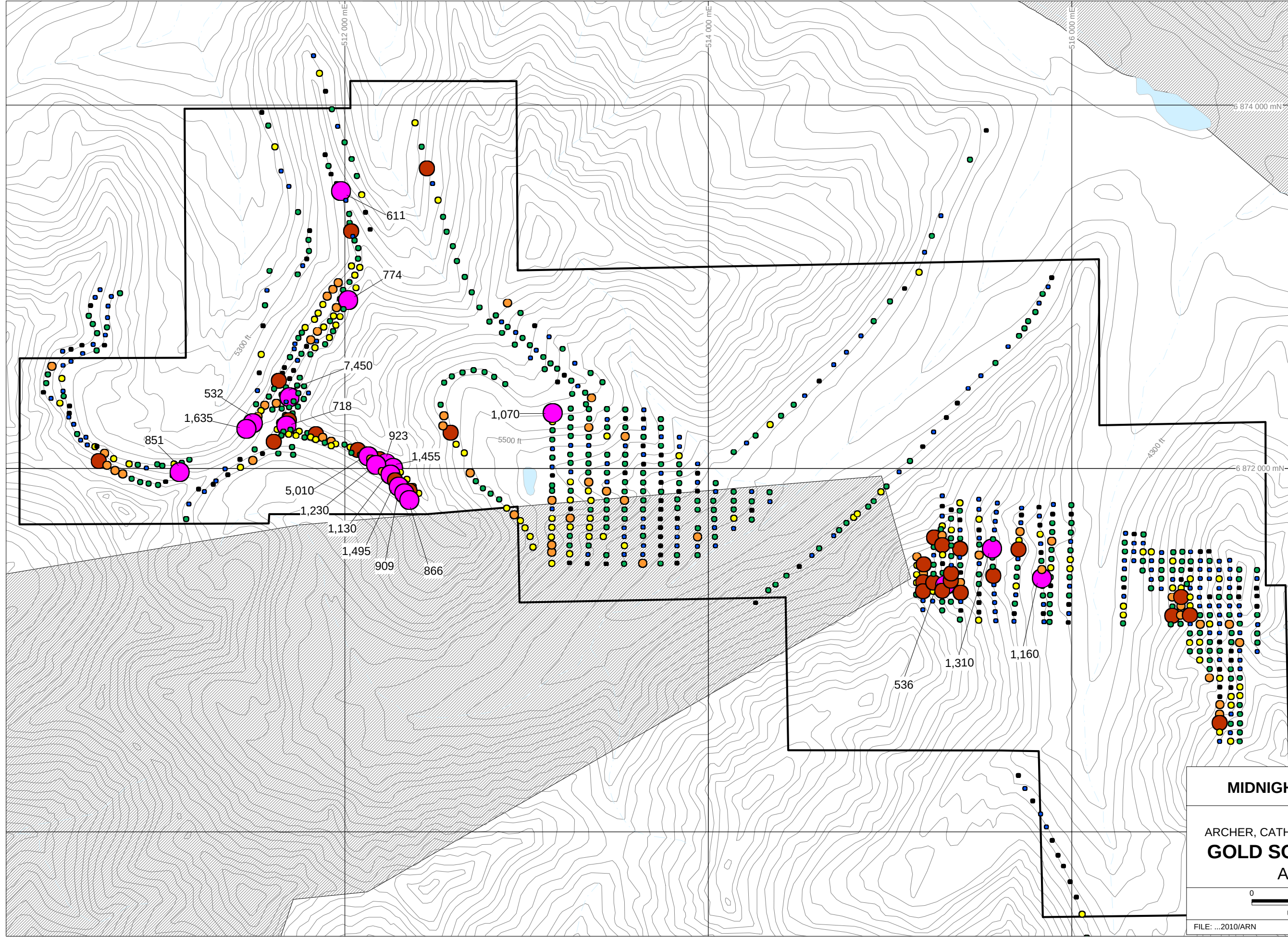
Historical Diamond Drilling

In 2002, ATAC drilled 181.67 m in four holes, and in 2004, Klondike Gold completed another 1003.72 m in eighteen holes (Figure 14). All of those holes were drilled in the vicinity of Zones A and B. They were designed to test stratigraphy below mineralized outcrops and coincident geophysical and geochemical anomalies. The holes mainly intersected limestone and volcanic rocks. A number of mineralized skarn zones were cut, but most were relatively narrow and grades were erratic. The most significant interval was obtained from hole ARN-04-16, which averaged 34.3 g/t gold and 0.49 % copper across 1.2 m

2010 Diamond Drilling

A four hole, diamond drill program was completed on the Arn property in 2010. Drill holes ARN-10-01 to 03 tested beneath Zone Q. They targeted downdip projections of mineralization exposed in outcrop and hand trenches, and were to designed to test soil anomalies and VTEM conductors (Figure 15). ARN-10-03 was oriented to scissor hole ARN-10-02. ARN-10-04 was drilled at Zone A, where most previous holes were drilled northward on the assumption that the zone dipped near vertically or toward the south. ARN-10-04 was drilled southward to test a reverse dipping model based on the interpretation of chargeability data from the 2006 IP survey.





- Claims owned by others
- First Nation Class A Lands (Arn claims have prior rights where overlapped)

Gold Geochemistry (ppb)

- ≥500
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥20 <50
- ≥10 <20
- ≥0 <10

MIDNIGHT SUN MINING CORP.

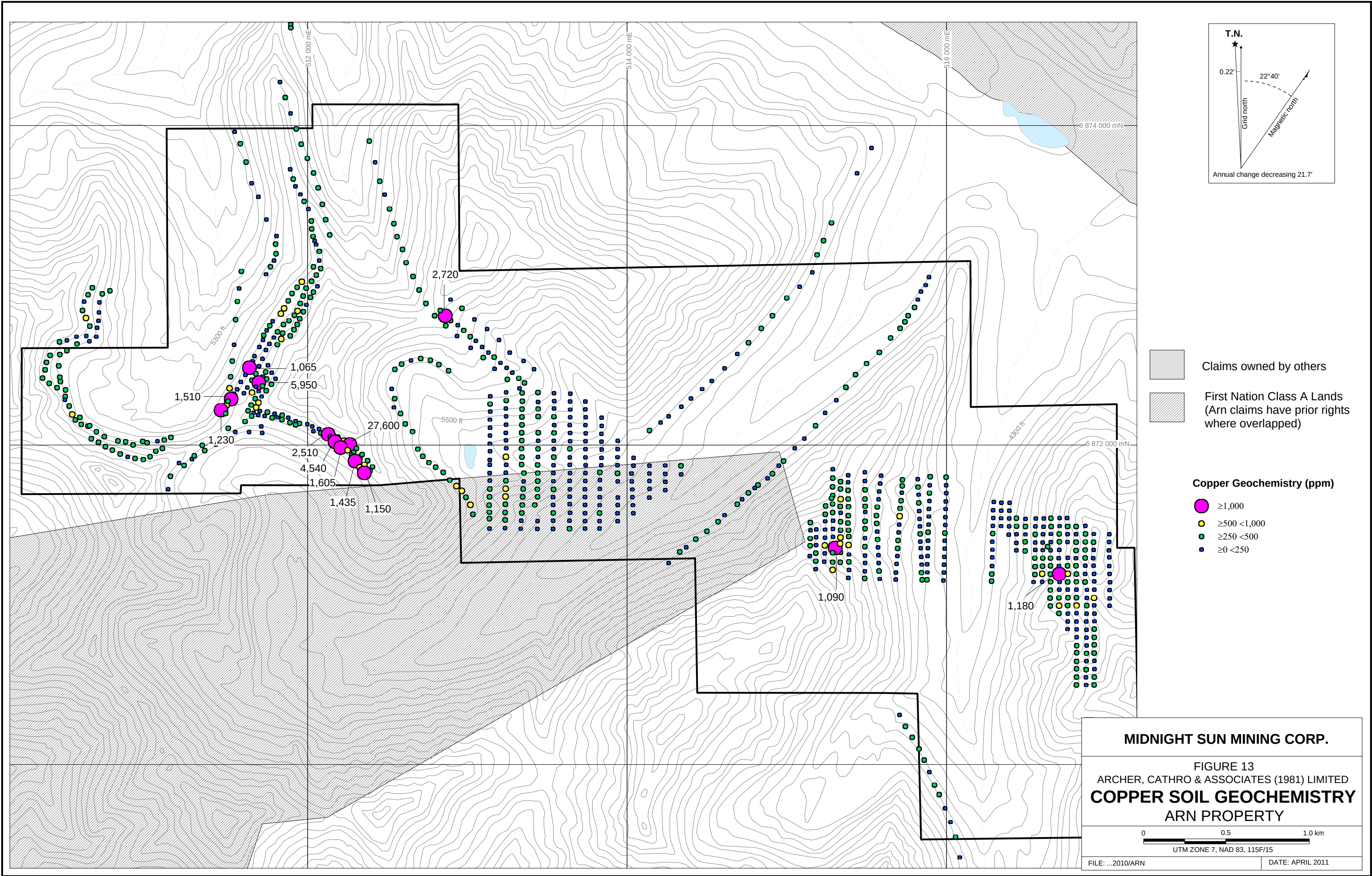
FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY
ARN PROPERTY

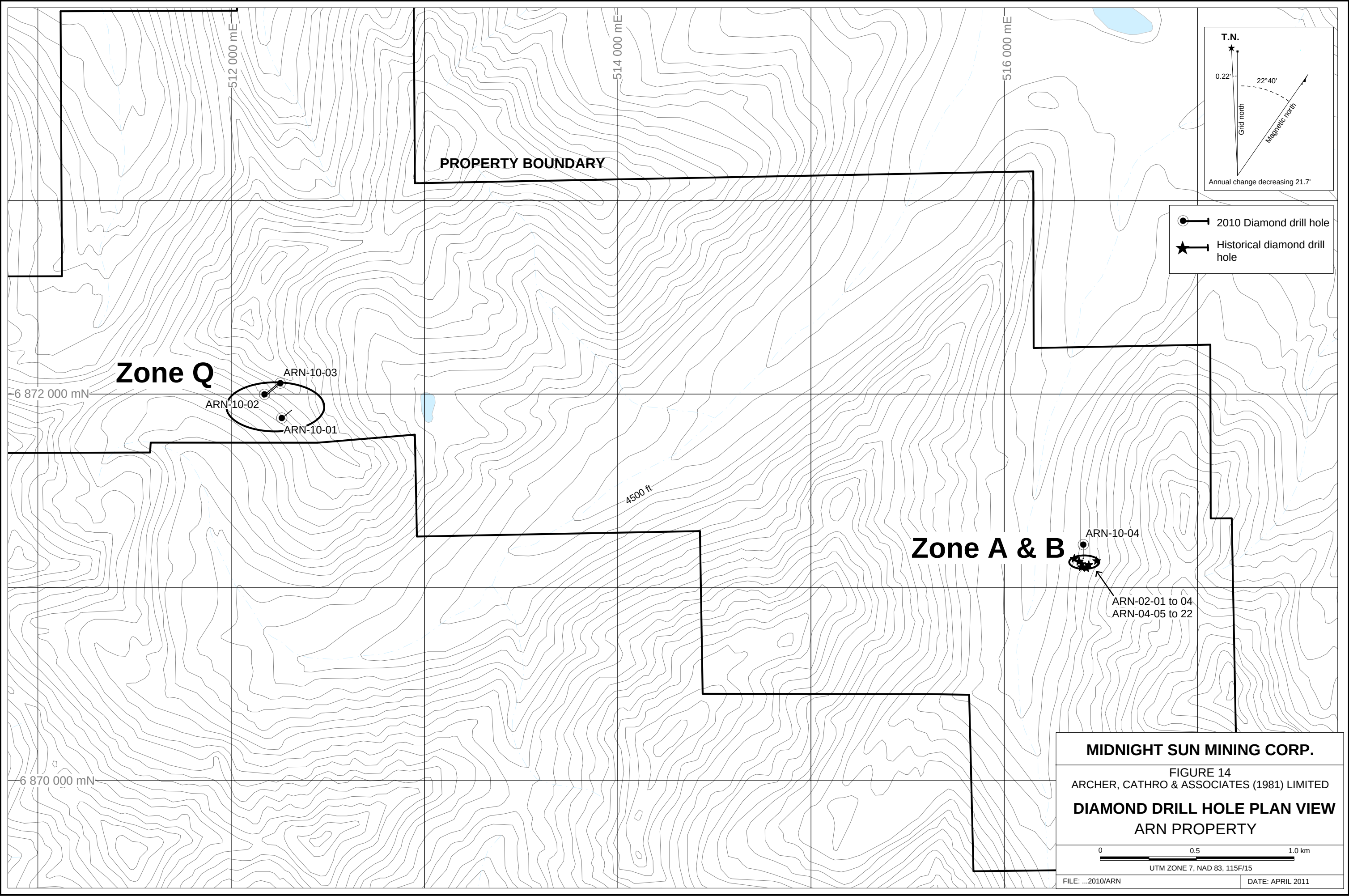
00.51.0 km

UTM ZONE 7, NAD 83, 115F/15

FILE: ...2010/ARN

DATE: APRIL 2011





The first hole was collared on June 20 and fourth hole was completed on July 6. The work was contracted to Top Rank Diamond Drilling Ltd. of Ste Rose du Lac, Manitoba, and was done with a heliportable, diesel-powered JKS-300 drill using NTW and BTW equipment. The drill was set up on a platform of 8"x 8" timbers covered with 2"x 8" planks, which was constructed on sites that were dug by hand. A total of 478.9 m of diamond drilling was completed.

The drill collar location for all holes is shown on Figures 8 to 10, 14, and 15, while cross-sections are illustrated on Figures 16 to 18. Sampling and Analytical Procedures for the core are explained in Appendix II, Certificates of Analyses are provided in Appendix III, and Geological and Geotechnical Logs are given in Appendix IV. Key data concerning the 2010 drill hole are shown on Table I.

Table VII – Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth	Dip Angle	Length (m)
ARN-10-01	512280	6871874	1851	050°	-45°	92.41
ARN-10-02	512172	6871996	1887	050°	-45°	127.41
ARN-10-03	512247	6872060	1962	230°	-45°	157.58
ARN-10-04	516409	6871220	1812	180°	-45°	101.5

The holes intersected three main lithological units: the Chitistone Formation, the Nikolai Formation, and the Kluane Range Plutonic Suite. Although a few skarnified intervals were cut, no economically significant mineralization was encountered. Below is a summary of the lithologies and mineralization encountered in each hole.

ARN-10-01 intersected hornfels(?) to a depth of 11.26 m, and weakly to strongly altered basalt with cross-cutting andesitic and felsic dykes to a final depth of 92.41 m.

ARN-10-02 intersected weakly to moderately altered basalt with some limestone interbeds to a final depth of 127.41 m. Chlorite-altered diorite dykes were common from 64.62 m to the end of hole. One skarnified interval was encountered within a marble horizon from 33.27 to 33.49 m. It contained semi-massive pyrite and euhedral garnet crystals but analyses returned only background values for gold, silver and copper.

ARN-10-03 intersected weakly oxidized porphyritic andesite with few chlorite-altered dykes to a final depth of 157.58 m. The prevalence of the andesite was unexpected because most nearby bedrock exposures are comprised of limestone. This suggests that the limestone is a relatively thin, southwest dipping cap.

ARN-10-04 intersected altered basalt and andesite to a depth of 89.6 m, and highly altered basalt with massive magnetite and patchy garnetiferous zones to a depth of 101.5 m. The skarnified section at the end of the hole returned background values for precious and base metals, which was disappointing because it lies vertically below historical gold-rich skarn found in drill hole ARN-02-04 and at Showing A5 (Figure 18).

MIDNIGHT SUN MINING CORP.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

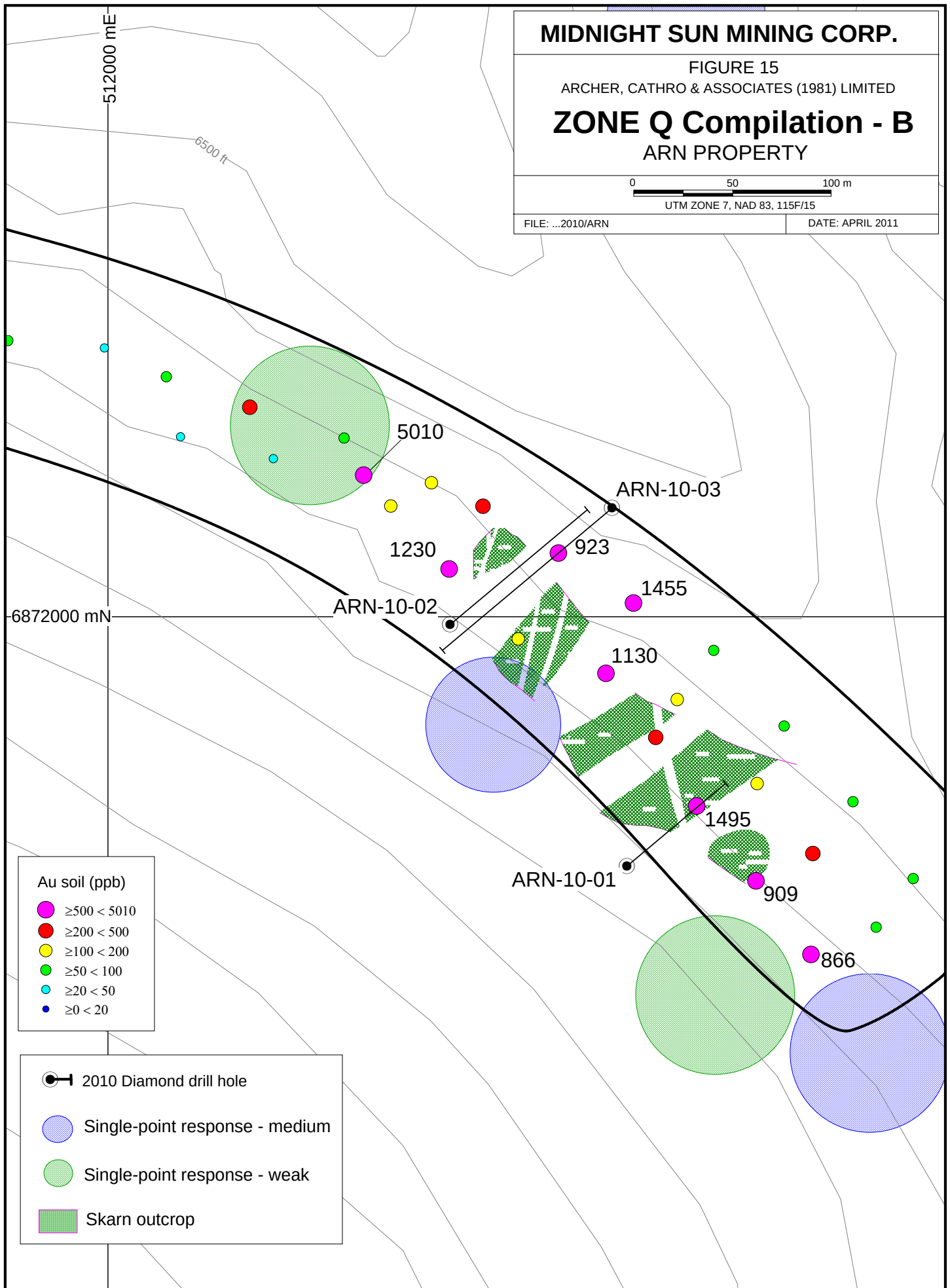
ZONE Q Compilation - B ARN PROPERTY

0 50 100 m

UTM ZONE 7, NAD 83, 115F/15

FILE: ...2010/ARN

DATE: APRIL 2011





Overburden



Hornfels (?)



Altered Basalt



Basalt



Andesitic Dyke



Felsic Dyke



Fault



Contact

LST

Limestone

SKN

Skarn

BST

Basalt

x x

Talus

Section Looking Northwest → 050°

MIDNIGHT SUN MINING CORP.

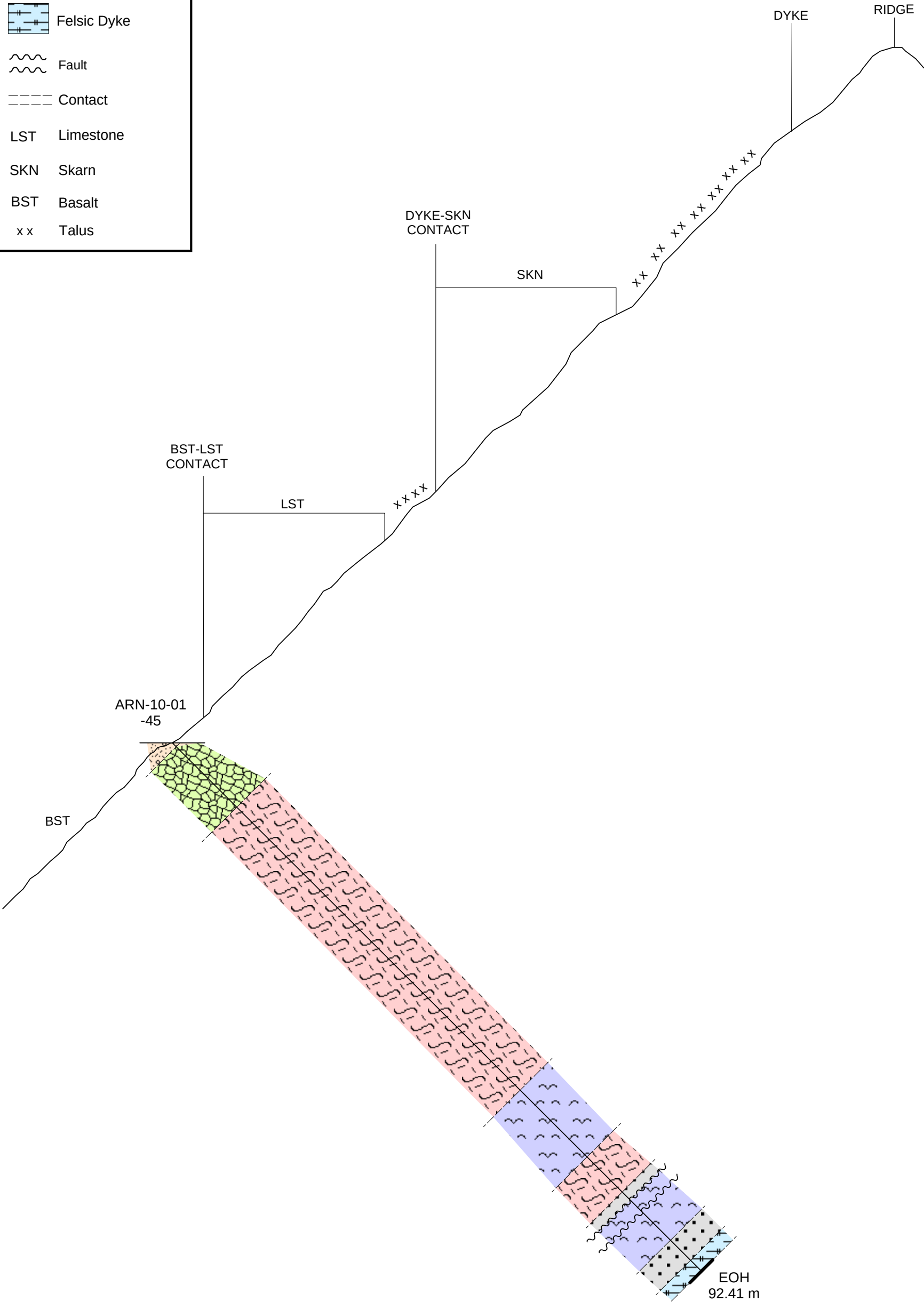
FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARN-10-01 CROSS-SECTION
ARN PROPERTY

02040 m

UTM ZONE 7, NAD 83, 115F/15

FILE: ../2010/ARN

DATE: APRIL 2011



Overburden

Basalt

Limestone

Skarn

Altered basalt with cross-cutting chloritic diorite dykes

Andesite with cross-cutting chloritic diorite dykes

Contact

LST

Limestone

SKN

Skarn

EPI

Epidote

GAR

Garnet

MIDNIGHT SUN MINING CORP.

FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARN-10-02 & ARN-10-03 CROSS-SECTIONS
ARN PROPERTY

03060 m

UTM ZONE 7, NAD 83, 115F/15

FILE: .../2010/ARN

DATE: APRIL 2011

Section Looking Northwest → 050°

ARN-10-03
-45

EOH
157.58 m

Skarn band

ARN-10-02
-45

EOH
127.41 m

LST

SKN

GAR-EPI
SKN

Section Looking East
→ 180°

MIDNIGHT SUN MINING CORP.

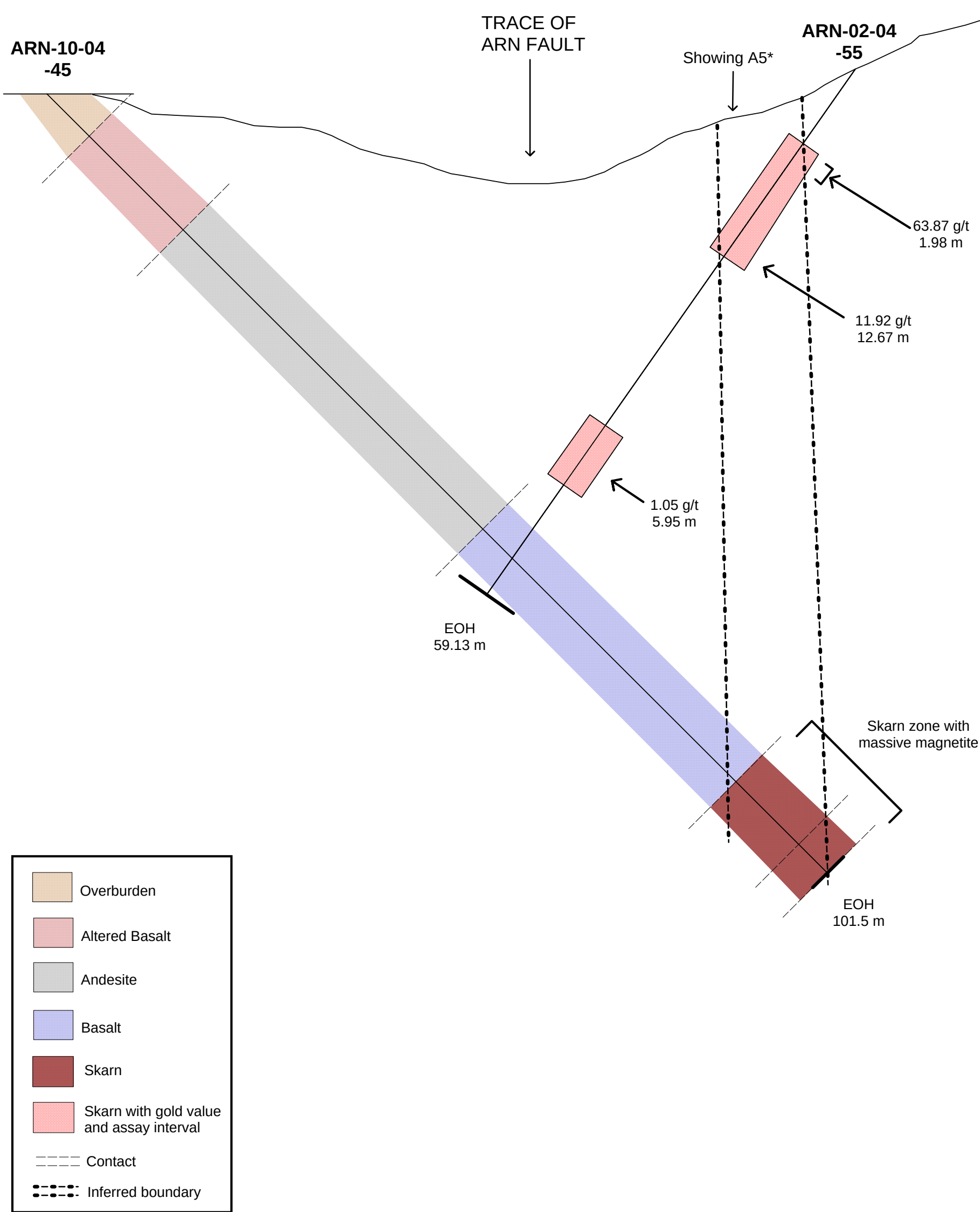
FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARN-10-04 & ARN-02-04 CROSS-SECTIONS
ARN PROPERTY

0 12.5 25 m

UTM ZONE 7, NAD 83, 115F/15

FILE: .../2010/ARN

DATE: APRIL 2011



*Approximate location

The limestone typically varied in colour from shades of light to dark grey. It was fine to medium grained and semi-crystalline. Weakly limonitic and epidote-altered zones were common throughout the unit.

The altered basalt was mottled brown and dark grey, and was moderately to strongly magnetic. Amygdules were scattered throughout and were usually filled with chlorite or epidote. Chlorite was commonly developed along fractured surfaces.

The porphyritic andesite was light green to grey, and weakly to moderately oxidized. Bleaching envelopes were common along contacts. Plagioclase phenocrysts ranged from 1 to 2 mm long, and hornblende phenocrysts between 1 to 11 mm. Localized zones featured weak to moderate epidote alteration.

The lithological change between basalt and andesite was diffuse in some holes. This was likely due to pervasive weathering and alteration of the feldspar and hornblende crystals, which produced colour variations.

The hornfels unit was dark grey, and aphanitic with anhedral to subhedral, medium grained mafic and felsic crystals. These crystals showed no preferred orientation.

Traces of pyrite and chalcopyrite were present as disseminations in all holes.

DISCUSSION AND CONCLUSIONS

The Arn property hosts gold±copper skarn mineralization within CHLS and NFVC rocks that are intruded by intermediate KRPS stocks, dykes and sills. Some historical drill holes have returned high gold and copper assays from sulphide- or magnetite-rich skarn intervals but those intervals appear to be narrow and sporadically mineralized.

The 2010 soil sampling program extended the gold and copper anomalies another 800 m to the west, but these results have not yet been followed up by prospecting so their significance is uncertain.

Diamond drilling did not intersect any economically significant mineralization. The limestone unit that hosts the mineralization at Zone Q proved to be much thinner than thought, and holes ARN-10-01 to 03 were mostly drilled in the underlying volcanic unit, where skarns are not developed. Hole ARN-10-04 cut a thick section of nearly massive magnetite skarn, but it was not gold-bearing. This skarn projects vertically upward to a mineral-rich exposure in Zone A; thus negating the easterly dipping hypothesis.

Based on strong gold±copper soil geochemical anomalies and unexplained mineralized float occurrences, some zones on the Arn claims warrant further work. This work should include diamond drilling west of the mineralized holes at Zones A and B and at Zones L and K, which have not yet been drill tested. No further work is recommended at Zones Q, but other nearby zones should be mapped in detail to identify areas where the prospective limestone could be thicker.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Oliver Fu, B.Sc.

REFERENCES

- Archer, A.R and Onasick, E.P
1980 Final Report, Nat Joint Venture, pp. 50-56.
- Becker, T.C.
2005 Prospecting, Geological Mapping, Hand Trenching and Diamond Drilling; Assessment Report prepared for Klondike Gold Corp. and ATAC Resources Ltd. Arn Property, p. 34.
- Carne, R.C.
1999 Prospecting and Geochemical Surveys, Arn Claims, Assessment Report prepared for Nordac Resources Ltd., p. 20.
- Copeland, H., Carne, R. and Payne, J.
1993 Geological, Geochemical and Geophysical Report, Arn property, Assessment Report prepared for Mendocino Resources Ltd., p. 15.
- Deklerk, R. (compiler)
2004 Yukon MINFILE 2004; Indian and Northern Affairs Canada, Yukon Region: CD-ROM.
- Eaton, W.D.
2003 Assessment Report, Arn 1-28 Claims, Assessment Report prepared for ATAC resources Ltd. p. 19.
- Eaton, W.D. and Nelson, J.
1982 Final Report, Nat Joint Venture, pp. 73-82.
- Geotech Ltd.
2008 Report on a helicopter-borne versatile time domain electromagnetic (VTEM) geophysical survey; Geophysical report for Archer, Cathro & Associates (1981) Limited.
- Gordey, S.P. and Makepeace, A.J. (comp.).
1999 Yukon digital geology; Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- Israel, S. and Cobbett, R.
2007 Kluane Ranges bedrock geology, White River area (Parts of NTS 115F/9, 15 and 16; 115G/12 and 115K/1,2); *in* Yukon Exploration and Geology 2007, D.S. Edmond, L.R. Blackburn, R.P Hill and L.H. Weston (eds.), Yukon Geological Survey, p. 153-167.

- Main, C.A.
1989 Geological, Geochemical and Geophysical Report, Arn Property, Assessment Report prepared for Kluane Joint Venture, p. 7.
- Onasick, E.P. and Archer, A.R.
1981 Final Report, Nat Joint Venture, pp. 76-78.
- Power, M.A.
2003 Report on Geological, Geochemical and Geophysical Exploration at the Arn property, Southwestern Yukon Territory; Technical Report for Strategic Metals Ltd., p. 34.
- Smith, H.
2008 Geophysical and Geochemical Surveys, Geological Mapping and Prospecting, Assessment Report prepared for ATAC Resources Ltd. and Auger Resources Ltd.
- Stroshein, R.W.
2010 Geology, Mineralization, Geochemistry, Geophysics and Diamond Drilling on the Arn Property; 43-101 Technical Report for Midnight Sun Capital Corp.
- Wengzynowski, W. A.
2003 Report on Geology, Mineralization, Geochemistry, Geophysics and Diamond Drilling at the Arn Property, Southwestern Yukon Territory; Technical report for ATAC Resources Ltd., p. 28.

2007 Assessment Report describing Geophysical Surveys at the Arn Property; Assessment report for Nyah Resources Inc.

2008 Technical Report describing Geology, Mineralization, Geochemistry, Geophysics and Diamond Drilling at the Arn Property; Technical report for Auger Resources Ltd, p.44.

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Oliver Fu, geologist, with business addresses in Vancouver, British Columbia and Ottawa, Ontario and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from McGill University in 2007 with a B.Sc. in Earth & Planetary Sciences.
2. From 2007 to present, I have been actively engaged in mineral exploration in Quebec, Newfoundland & Labrador, British Columbia, and the Yukon Territory.
3. I have personally participated in the core logging and data interpretation reported herein.

Oliver Fu, B.Sc. Earth & Planetary Sciences

APPENDIX II

SAMPLING AND ANALYTICAL PROCEDURES

2010 Drill Core

The collar locations were marked with 1 m long 4"x 4" timbers. A metal tag listing the hole number, azimuth, dip and total depth was secured to each collar marker. Survey control was established by chain and compass measurements.

Core was transported by helicopter from the drill sites to a temporary storage area at the Sawmill Lake Float base. From there, it was transported by truck to the Archer Cathro lot in Whitehorse, Yukon, escorted by a representative of Archer Cathro. In Whitehorse, recovery was measured and geological and geotechnical logging was performed. Both holes were split with one-half bagged and sent for analysis and the other half returned to the core box. Two blank and two standard samples were randomly included in every batch of 32 core samples. All core is stored in Whitehorse.

The core samples were transported to the ALS Chemex preparation lab in Whitehorse where they were dried and crushed to 70% minus 2 mm, before a 1.5 kg split was taken and pulverized to better than 85% minus 75 microns. Splits of the pulverized fraction were routinely analyzed for 35 elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41). Samples were also analyzed for gold by fire assay finished with atomic absorption spectroscopy (Au-AA24).

2010 Soil Geochemical Samples

All 2010 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 30 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 50 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-AA24).

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 7-JUL-2010
Account: F

CERTIFICATE VA10086243

Project: ARN

P.O. No.:

This report is for 80 Soil samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - A

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	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
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC83601		0.20	0.035	0.3	3.58	22	<10	90	<0.5	<2	1.80	<0.5	37	55	367	5.60
CC83602		0.28	0.012	0.2	4.65	11	<10	70	<0.5	<2	2.32	<0.5	33	51	257	4.91
CC83603		0.20	0.016	0.2	2.56	11	<10	110	<0.5	<2	1.18	<0.5	24	47	123	3.76
CC83604		0.24	0.012	0.2	2.67	9	<10	80	<0.5	<2	1.17	<0.5	14	34	126	3.20
CC83605		0.24	0.020	0.4	4.35	12	<10	60	<0.5	<2	2.25	<0.5	23	24	192	4.74
CC83606		0.28	0.013	0.2	4.42	6	<10	50	<0.5	<2	2.60	<0.5	27	47	188	3.31
CC83607		0.34	<0.005	<0.2	3.15	7	<10	60	<0.5	<2	1.91	<0.5	28	41	183	4.23
CC83608		0.30	0.022	0.2	2.80	8	<10	110	<0.5	<2	0.65	<0.5	21	58	136	3.95
CC83609		0.26	0.013	0.2	2.59	5	<10	60	<0.5	<2	0.68	<0.5	45	79	242	4.64
CC83610		0.32	0.013	0.4	3.94	23	<10	30	0.5	<2	2.42	<0.5	39	61	270	5.08
CC83611		0.30	0.014	0.4	4.05	33	<10	30	0.5	<2	2.52	<0.5	41	65	293	5.42
CC83612		0.26	0.082	0.4	3.44	144	<10	50	<0.5	<2	2.34	<0.5	52	73	269	5.84
CC83613		0.34	0.010	0.4	3.72	123	<10	70	<0.5	<2	1.88	0.6	46	128	223	5.42
CC83614		0.30	0.020	<0.2	3.42	89	10	100	<0.5	<2	1.41	<0.5	40	71	219	6.05
CC83615		0.28	0.008	0.2	3.00	62	10	90	<0.5	<2	1.30	<0.5	37	66	234	5.35
CC83616		0.28	0.005	0.3	3.30	46	<10	70	<0.5	<2	1.42	<0.5	42	76	300	5.83
CC83617		0.28	0.014	0.3	3.15	15	<10	70	<0.5	<2	1.22	<0.5	41	80	252	6.07
CC83618		0.30	0.023	0.3	3.80	18	<10	100	<0.5	<2	0.99	<0.5	78	73	562	8.09
CC83619		0.32	0.019	0.3	2.81	68	<10	80	0.5	<2	0.98	<0.5	51	88	364	6.97
CC83620		0.24	0.014	0.3	3.46	122	<10	90	<0.5	<2	1.36	<0.5	55	53	344	6.32
CC83621		0.28	0.062	0.2	3.71	142	<10	80	<0.5	<2	1.05	<0.5	78	205	495	7.98
CC83622		0.28	0.101	0.3	3.40	1180	<10	100	<0.5	3	1.70	<0.5	62	68	367	7.08
CC83623		0.32	0.084	0.2	4.01	324	10	80	0.5	<2	1.89	<0.5	62	78	358	7.03
CC83624		0.24	0.051	<0.2	3.76	183	<10	100	<0.5	<2	1.78	<0.5	48	64	254	5.81
CC83625		0.26	0.020	0.4	4.07	117	10	100	<0.5	<2	2.07	<0.5	46	69	286	5.60
CC83626		0.28	0.010	0.3	3.90	202	<10	90	<0.5	<2	1.99	<0.5	46	84	234	5.55
CC83627		0.26	0.025	0.3	3.79	220	<10	100	0.5	<2	1.99	<0.5	45	61	245	5.76
CC83628		0.22	0.030	<0.2	3.89	52	<10	110	<0.5	<2	1.48	<0.5	52	117	206	7.53
CC83629		0.26	0.064	0.2	3.90	12	<10	70	<0.5	<2	2.34	<0.5	21	35	102	3.65
CC83630		0.24	0.023	0.3	3.72	22	<10	60	<0.5	<2	1.96	<0.5	56	99	337	7.91
CC83631		0.30	0.032	0.4	4.31	52	<10	70	<0.5	<2	1.46	<0.5	62	91	238	6.86
CC83551		0.14	0.027	<0.2	3.31	63	<10	110	<0.5	<2	1.13	<0.5	31	78	154	4.75
CC83552		0.16	0.011	0.3	3.95	17	<10	160	<0.5	<2	1.33	<0.5	40	86	216	6.30
CC83553		0.18	0.005	<0.2	4.18	13	<10	160	<0.5	<2	1.11	<0.5	38	59	198	6.63
CC83554		0.20	<0.005	<0.2	3.82	9	<10	100	<0.5	<2	0.99	<0.5	40	118	176	6.39
CC83555		0.18	0.016	0.2	3.85	21	<10	40	0.6	<2	0.95	<0.5	47	119	257	7.69
CC83556		0.18	0.005	<0.2	7.50	2	<10	70	<0.5	<2	0.88	<0.5	63	117	49	8.81
CC83557		0.16	0.047	0.3	4.32	223	<10	110	<0.5	<2	2.08	<0.5	31	59	319	5.35
CC83558		0.20	0.280	0.5	4.09	107	10	60	0.5	<2	3.88	1.6	57	58	464	8.33
CC83559		0.12	0.030	<0.2	5.29	2	<10	270	<0.5	<2	0.92	<0.5	41	129	67	7.41



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - B

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC83601		10	<1	0.08	10	1.69	1250	<1	0.10	53	1120	2	0.06	<2	14
CC83602		10	<1	0.08	<10	1.03	615	<1	0.25	44	1030	2	0.02	<2	5
CC83603		10	<1	0.07	<10	0.79	873	1	0.10	35	1270	2	0.09	<2	3
CC83604		10	<1	0.07	10	0.81	309	1	0.08	26	780	<2	0.05	<2	4
CC83605		10	<1	0.11	10	0.97	1020	<1	0.11	15	740	<2	0.01	<2	9
CC83606		10	1	0.10	<10	1.07	591	<1	0.16	26	650	<2	0.01	<2	4
CC83607		10	1	0.07	10	0.91	530	<1	0.11	29	1180	<2	<0.01	<2	6
CC83608		10	<1	0.07	<10	1.12	484	<1	0.05	32	660	<2	0.02	<2	4
CC83609		10	<1	0.06	<10	1.66	581	<1	0.11	63	700	<2	0.01	<2	3
CC83610		10	<1	0.10	10	1.39	882	4	0.04	43	770	3	0.02	<2	9
CC83611		10	1	0.10	10	1.45	891	4	0.04	47	810	5	0.04	<2	10
CC83612		10	1	0.13	10	1.60	1055	1	0.08	56	880	3	0.02	<2	11
CC83613		10	<1	0.25	10	2.18	1005	1	0.11	104	1170	8	0.03	<2	10
CC83614		10	1	0.41	10	2.30	956	<1	0.15	81	800	5	0.01	<2	11
CC83615		10	1	0.38	10	1.98	830	<1	0.14	88	990	3	0.01	<2	10
CC83616		10	<1	0.22	<10	2.00	839	1	0.11	67	610	7	0.02	<2	9
CC83617		10	<1	0.36	<10	2.18	753	1	0.12	66	650	3	0.02	<2	10
CC83618		10	1	0.37	10	2.78	1190	1	0.09	101	800	10	0.09	<2	10
CC83619		10	1	0.27	10	1.91	1225	1	0.05	75	840	4	0.04	<2	14
CC83620		10	1	0.19	10	1.77	921	1	0.08	71	860	8	0.10	<2	8
CC83621		10	1	0.15	10	2.87	1375	2	0.06	145	750	9	0.11	<2	10
CC83622		10	4	0.24	10	1.33	1365	1	0.13	70	970	3	0.12	31	11
CC83623		10	1	0.25	10	1.65	1385	1	0.14	94	1090	5	0.11	4	11
CC83624		10	1	0.34	10	1.70	1170	1	0.16	70	1000	4	0.12	2	9
CC83625		10	<1	0.35	10	1.91	1130	1	0.16	73	950	4	0.13	<2	9
CC83626		10	1	0.30	10	1.82	1010	1	0.17	103	860	5	0.12	16	9
CC83627		10	1	0.22	10	1.42	1175	2	0.13	77	880	5	0.12	<2	9
CC83628		10	<1	0.58	10	2.92	1365	<1	0.09	87	750	4	0.17	<2	14
CC83629		10	1	0.12	10	1.10	581	<1	0.06	31	900	3	0.07	<2	6
CC83630		10	1	0.42	<10	3.20	1365	1	0.07	75	680	<2	0.30	<2	13
CC83631		10	1	0.25	10	3.04	1305	<1	0.12	89	650	3	0.18	<2	11
CC83551		10	1	0.15	10	1.41	971	3	0.11	72	900	4	0.04	<2	8
CC83552		10	1	0.55	<10	2.57	1095	1	0.07	76	640	2	0.03	<2	12
CC83553		10	<1	1.06	<10	3.00	1330	<1	0.07	55	630	2	0.04	<2	11
CC83554		10	1	0.71	<10	3.36	849	<1	0.08	68	410	2	0.04	<2	9
CC83555		10	<1	0.47	20	2.94	1365	<1	0.02	87	370	3	0.03	<2	16
CC83556		20	1	1.82	<10	8.09	859	<1	0.04	119	200	<2	0.02	<2	8
CC83557		10	1	0.31	10	1.79	1355	2	0.03	29	940	2	0.02	<2	12
CC83558		10	1	0.12	10	1.09	1270	3	0.07	45	1160	9	0.16	2	15
CC83559		20	1	2.34	<10	6.30	898	<1	0.02	59	600	<2	0.03	<2	10



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - C

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC83601		<20	0.03	<10	<10	142	<10	87
CC83602		<20	0.05	<10	<10	168	<10	50
CC83603		<20	0.05	<10	<10	101	<10	60
CC83604		<20	0.06	<10	<10	90	<10	50
CC83605		<20	0.04	<10	<10	160	<10	49
CC83606		<20	0.03	<10	<10	87	<10	43
CC83607		<20	0.07	<10	<10	135	<10	53
CC83608		<20	0.14	<10	<10	138	<10	44
CC83609		<20	0.10	<10	<10	119	<10	52
CC83610		<20	0.08	<10	<10	103	<10	51
CC83611		<20	0.09	<10	<10	111	<10	60
CC83612		<20	0.12	<10	<10	130	<10	77
CC83613		<20	0.13	<10	<10	130	<10	135
CC83614		<20	0.17	<10	<10	162	<10	80
CC83615		<20	0.18	<10	<10	136	<10	81
CC83616		<20	0.16	<10	<10	144	<10	99
CC83617		<20	0.21	<10	<10	162	<10	87
CC83618		<20	0.17	<10	<10	166	<10	129
CC83619		<20	0.12	<10	<10	162	<10	94
CC83620		<20	0.11	<10	<10	122	<10	117
CC83621		<20	0.13	<10	<10	133	<10	117
CC83622		<20	0.10	<10	<10	120	<10	83
CC83623		<20	0.13	<10	<10	126	<10	104
CC83624		<20	0.14	<10	<10	125	<10	90
CC83625		<20	0.14	<10	<10	123	<10	122
CC83626		<20	0.14	<10	<10	111	<10	128
CC83627		<20	0.11	<10	<10	109	<10	95
CC83628		<20	0.21	<10	<10	180	<10	93
CC83629		<20	0.08	<10	<10	101	<10	56
CC83630		<20	0.11	<10	<10	187	<10	86
CC83631		<20	0.13	<10	<10	148	<10	93
CC83551		<20	0.11	<10	<10	109	<10	82
CC83552		<20	0.19	<10	<10	159	<10	90
CC83553		<20	0.23	<10	<10	189	<10	98
CC83554		<20	0.24	<10	<10	179	<10	91
CC83555		<20	0.13	<10	<10	144	<10	112
CC83556		<20	0.33	<10	<10	188	<10	120
CC83557		<20	0.11	<10	<10	116	<10	94
CC83558		<20	0.06	<10	<10	136	<10	232
CC83559		<20	0.33	<10	<10	271	<10	100



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 3 - A

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	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
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC83560		0.16	0.043	0.4	2.04	45	<10	50	<0.5	<2	14.7	<0.5	20	59	151	3.33
CC83561		0.20	0.020	0.4	1.59	12	<10	20	<0.5	<2	20.0	<0.5	17	44	149	3.64
CC83562		0.20	NSS	<0.2	4.86	8	<10	120	<0.5	<2	0.93	<0.5	40	75	119	6.76
CC83563		0.14	0.134	0.2	2.59	212	10	90	<0.5	<2	1.17	<0.5	36	59	184	6.79
CC83564		0.14	0.096	<0.2	4.67	14	<10	210	<0.5	<2	0.71	<0.5	39	83	309	6.26
CC83565		0.18	0.007	0.2	4.13	19	<10	90	<0.5	<2	1.11	<0.5	48	118	317	7.04
CC83566		0.14	0.010	0.2	3.74	17	<10	80	<0.5	<2	0.98	<0.5	47	121	270	7.13
CC83567		0.18	0.018	<0.2	3.49	9	<10	130	<0.5	<2	0.81	<0.5	38	60	257	6.33
CC83568		0.10	0.011	0.2	3.47	11	<10	100	<0.5	<2	1.63	<0.5	30	43	228	4.46
CC83569		0.12	0.008	0.2	3.06	6	<10	70	<0.5	<2	1.51	<0.5	27	46	197	4.18
CC83570		0.18	0.023	0.3	4.08	9	<10	70	<0.5	<2	2.11	<0.5	39	54	341	5.04
CC83571		0.24	0.031	0.5	5.48	5	<10	60	<0.5	<2	2.50	<0.5	71	100	709	5.22
CC83572		0.18	0.025	0.5	5.83	3	<10	40	<0.5	<2	3.60	<0.5	30	24	257	4.05
CC83573		0.18	0.010	0.2	2.89	4	<10	60	<0.5	<2	1.29	<0.5	28	55	173	4.52
CC83574		0.14	<0.005	0.2	1.95	5	<10	110	<0.5	<2	0.90	<0.5	16	31	81	3.06
CC83575		0.16	<0.005	<0.2	2.35	9	<10	110	<0.5	<2	0.87	<0.5	22	62	129	3.79
CC83576		0.18	0.010	0.2	1.71	4	<10	60	<0.5	<2	0.41	<0.5	41	87	321	4.73
CC83577		Not Recvd														
CC83578		0.16	0.172	0.4	3.33	22	<10	40	<0.5	5	1.88	<0.5	33	68	245	4.83
CC83579		0.24	0.020	0.5	3.20	84	<10	70	<0.5	<2	8.8	0.7	45	68	297	4.86
CC83580		0.26	0.042	0.3	3.57	130	<10	50	<0.5	<2	1.79	<0.5	56	82	279	5.95
CC83581		0.20	0.008	0.2	3.35	98	<10	60	<0.5	<2	1.63	<0.5	43	102	204	4.84
CC83582		0.20	0.014	0.3	3.80	70	<10	80	<0.5	<2	1.81	0.6	54	91	264	4.98
CC83583		0.18	0.057	0.5	3.30	34	<10	40	<0.5	<2	1.49	<0.5	55	107	360	5.72
CC83584		0.24	0.011	<0.2	3.54	275	20	100	0.7	<2	1.35	<0.5	61	139	192	6.83
CC83586		0.18	0.017	0.2	3.17	68	<10	90	<0.5	<2	1.88	<0.5	40	74	251	5.83
CC83587		0.16	0.006	<0.2	3.50	33	<10	100	<0.5	<2	1.07	<0.5	40	57	256	5.87
CC83588		0.22	0.205	0.4	3.26	833	<10	140	<0.5	<2	1.53	<0.5	64	116	428	7.40
CC83589		0.18	0.132	0.7	2.20	1030	<10	80	<0.5	<2	8.2	0.8	60	72	448	7.02
CC83590		0.18	0.101	0.3	3.72	438	<10	80	<0.5	<2	2.38	<0.5	50	71	240	6.65
CC83591		0.18	0.146	0.2	4.02	316	<10	80	0.5	<2	2.04	<0.5	66	66	356	6.99
CC83592		0.22	0.037	0.2	3.82	44	<10	170	<0.5	<2	1.32	<0.5	54	99	246	7.28
CC83593		0.22	0.034	0.2	1.61	241	30	40	0.6	<2	5.97	<0.5	56	144	188	8.19
CC83594		0.22	0.031	0.4	4.04	108	20	100	<0.5	<2	2.81	0.5	51	70	301	5.74
CC83595		0.20	0.032	0.4	4.27	236	10	120	<0.5	<2	2.08	<0.5	52	93	248	6.51
CC83596		0.18	NSS	0.3	3.55	39	<10	140	0.5	<2	1.15	<0.5	50	85	280	6.66
CC83597		0.22	0.010	<0.2	3.95	54	<10	140	<0.5	<2	1.12	<0.5	53	116	251	7.52
CC83598		0.20	0.017	<0.2	3.95	13	<10	80	<0.5	<2	0.97	<0.5	74	129	181	8.72
CC83599		0.18	0.851	0.6	2.01	26	<10	20	<0.5	<2	10.5	<0.5	34	61	311	7.54
CC83600		0.22	0.018	0.4	4.31	22	<10	30	0.5	<2	2.57	<0.5	41	68	286	5.10



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 3 - B

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC83560		<10	1	0.09	<10	0.99	756	3	0.08	44	870	10	0.06	14	4
CC83561		<10	<1	0.04	<10	0.86	611	1	0.04	30	770	3	<0.01	<2	4
CC83562		10	1	1.10	<10	4.60	699	<1	0.04	62	650	<2	0.02	<2	8
CC83563		10	3	0.43	10	1.53	1425	1	0.07	48	1100	3	0.03	10	19
CC83564		10	1	0.69	10	3.63	619	<1	0.07	62	560	<2	0.03	<2	7
CC83565		10	1	0.48	<10	3.41	1195	<1	0.09	93	530	3	0.02	<2	10
CC83566		10	1	0.43	<10	3.22	1105	<1	0.07	80	440	2	0.03	<2	10
CC83567		10	1	0.37	10	2.59	793	<1	0.08	52	730	<2	0.03	<2	8
CC83568		10	1	0.09	10	1.08	622	<1	0.15	42	1060	3	0.08	<2	6
CC83569		10	1	0.07	<10	0.84	540	<1	0.16	38	1210	2	0.09	<2	4
CC83570		10	1	0.07	<10	1.01	743	<1	0.23	49	1410	2	0.07	<2	6
CC83571		10	1	0.06	<10	3.67	1030	<1	0.23	116	660	<2	0.04	<2	3
CC83572		10	1	0.08	<10	0.92	449	<1	0.28	25	1070	<2	0.03	<2	3
CC83573		10	1	0.08	10	1.19	736	1	0.12	40	1040	4	0.04	<2	5
CC83574		10	<1	0.06	<10	0.67	480	1	0.05	25	860	3	0.09	<2	3
CC83575		10	1	0.06	<10	1.33	536	1	0.05	43	810	2	0.08	<2	3
CC83576		10	<1	0.11	<10	1.02	319	<1	0.03	85	550	<2	0.02	<2	3
CC83577															
CC83578		10	1	0.09	<10	1.38	806	3	0.05	49	750	5	0.06	<2	9
CC83579		10	<1	0.16	<10	1.66	1000	1	0.09	89	710	11	0.06	<2	8
CC83580		10	1	0.17	10	1.87	1115	1	0.07	76	890	5	0.03	<2	10
CC83581		10	<1	0.25	10	1.80	895	<1	0.10	87	1120	8	0.03	<2	9
CC83582		10	1	0.35	<10	1.89	911	<1	0.16	93	1080	8	0.03	<2	8
CC83583		10	1	0.22	<10	2.41	1130	1	0.10	120	640	6	0.08	<2	9
CC83584		10	1	0.24	10	2.43	1745	1	0.06	200	1130	8	0.01	6	21
CC83586		10	1	0.45	<10	1.95	939	<1	0.10	61	770	4	0.03	<2	9
CC83587		10	<1	0.29	10	1.91	988	<1	0.07	54	620	4	0.04	<2	9
CC83588		10	3	0.46	10	1.85	1255	1	0.12	97	1090	3	0.12	8	14
CC83589		10	2	0.18	10	0.97	1170	4	0.12	94	1020	6	0.19	6	11
CC83590		10	1	0.38	10	1.61	1295	2	0.12	70	800	<2	0.05	3	13
CC83591		10	1	0.29	10	1.53	1350	1	0.14	96	930	4	0.15	3	10
CC83592		10	<1	0.97	<10	3.28	974	<1	0.10	81	620	<2	0.08	<2	9
CC83593		10	2	0.10	10	0.80	1825	1	0.03	123	720	<2	0.01	6	31
CC83594		10	1	0.42	10	1.93	1320	1	0.13	78	820	7	0.10	<2	9
CC83595		10	1	0.44	10	2.25	1325	1	0.14	112	710	7	0.14	15	11
CC83596		10	1	0.42	20	2.27	1415	2	0.07	88	900	7	0.17	<2	11
CC83597		10	1	0.80	<10	3.41	1325	<1	0.06	111	430	<2	0.04	<2	12
CC83598		10	1	0.77	<10	3.86	1515	<1	0.07	99	360	<2	0.07	<2	8
CC83599		10	1	0.14	<10	3.07	2120	<1	0.02	64	370	<2	0.17	<2	18
CC83600		10	1	0.11	<10	1.48	910	4	0.04	50	770	3	0.04	<2	10



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 3 - C

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC83560		<20	0.08	<10	<10	58	<10	72
CC83561		<20	0.06	<10	<10	50	<10	49
CC83562		<20	0.22	<10	<10	202	<10	86
CC83563		<20	0.08	<10	<10	165	<10	96
CC83564		<20	0.20	<10	<10	175	<10	90
CC83565		<20	0.22	<10	<10	175	<10	138
CC83566		<20	0.23	<10	<10	176	<10	99
CC83567		<20	0.20	<10	<10	181	<10	100
CC83568		<20	0.06	<10	<10	122	<10	66
CC83569		<20	0.05	<10	<10	126	<10	59
CC83570		<20	0.05	<10	<10	149	<10	58
CC83571		<20	0.05	<10	<10	124	<10	62
CC83572		<20	0.05	<10	<10	156	<10	42
CC83573		<20	0.06	<10	<10	151	<10	47
CC83574		<20	0.06	<10	<10	82	<10	64
CC83575		<20	0.13	<10	<10	109	<10	61
CC83576		<20	0.16	<10	<10	105	<10	48
CC83577								
CC83578		<20	0.10	<10	<10	109	<10	66
CC83579		<20	0.12	<10	<10	99	<10	129
CC83580		<20	0.13	<10	<10	128	<10	88
CC83581		<20	0.11	<10	<10	118	<10	119
CC83582		<20	0.13	<10	<10	119	<10	140
CC83583		<20	0.13	<10	<10	126	<10	85
CC83584		<20	0.07	<10	<10	166	<10	99
CC83586		<20	0.17	<10	<10	136	<10	97
CC83587		<20	0.18	<10	<10	152	<10	101
CC83588		<20	0.12	<10	<10	152	<10	100
CC83589		<20	0.07	<10	<10	111	<10	140
CC83590		<20	0.13	<10	<10	143	<10	82
CC83591		<20	0.11	<10	<10	121	<10	106
CC83592		<20	0.28	<10	<10	158	<10	85
CC83593		<20	0.02	<10	<10	174	<10	85
CC83594		<20	0.12	<10	<10	119	<10	149
CC83595		<20	0.14	<10	<10	126	<10	135
CC83596		<20	0.14	<10	<10	147	<10	106
CC83597		<20	0.18	<10	<10	157	<10	85
CC83598		<20	0.19	<10	<10	190	<10	88
CC83599		<20	0.02	<10	<10	121	<10	83
CC83600		<20	0.09	<10	<10	108	<10	59



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 7-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS VA10086243

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 22-JUL-2010
Account: F

CERTIFICATE WH10091230

Project: ARN

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
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
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - A

Total # Pages: 2 (A - C)

Finalized Date: 22-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10091230

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
G0558651		4.22	<0.2	2.68	4	<10	100	<0.5	<2	1.90	<0.5	12	106	53	1.99	10
G0558652		5.27	<0.2	2.96	6	<10	80	<0.5	<2	2.04	<0.5	13	50	55	2.30	10
G0558653		6.28	<0.2	2.14	<2	<10	40	<0.5	<2	1.92	<0.5	9	73	63	1.68	10
G0558654		6.18	<0.2	4.54	3	<10	100	<0.5	<2	3.20	<0.5	17	89	167	3.68	10
G0558655		5.85	<0.2	5.93	<2	<10	200	<0.5	<2	3.18	<0.5	24	131	122	4.89	10
G0558656		4.68	<0.2	4.01	<2	<10	150	<0.5	<2	1.44	<0.5	34	100	101	6.77	10
G0558657		6.71	0.3	3.57	<2	<10	150	<0.5	<2	1.57	<0.5	34	100	377	6.65	10
G0558658		0.33	4.7	1.52	19	<10	70	<0.5	<2	0.71	2.0	11	39	>10000	3.55	<10
G0558659		6.26	<0.2	3.46	<2	<10	80	<0.5	<2	2.08	<0.5	22	76	164	4.12	10
G0558660		6.38	<0.2	4.13	3	<10	150	<0.5	<2	1.52	<0.5	31	75	53	4.88	10
G0558661		7.11	<0.2	3.40	<2	<10	40	<0.5	<2	2.50	<0.5	13	32	49	2.96	10
G0558662		4.36	<0.2	4.50	<2	<10	120	<0.5	<2	1.27	<0.5	30	76	41	4.74	10
G0558663		5.85	1.7	3.38	6	<10	50	<0.5	4	2.44	2.9	21	235	93	3.93	10
G0558664		2.27	<0.2	0.06	<2	<10	<10	<0.5	<2	19.4	<0.5	1	2	2	0.39	<10
G0558665		9.90	<0.2	4.83	<2	<10	100	<0.5	<2	2.25	<0.5	28	182	142	5.69	10
G0558666		5.58	<0.2	3.60	3	<10	70	<0.5	<2	2.28	<0.5	30	143	131	4.66	10
G0558667		7.34	<0.2	4.05	<2	<10	110	<0.5	<2	1.72	<0.5	28	144	173	5.04	10
G0558668		6.33	<0.2	3.20	3	<10	110	<0.5	<2	1.50	<0.5	22	113	74	3.68	10
G0558669		5.82	<0.2	2.57	2	<10	140	<0.5	<2	1.49	<0.5	17	74	142	3.20	10
G0558670		6.12	<0.2	2.25	<2	<10	120	<0.5	<2	1.46	<0.5	17	78	76	3.14	10
G0558671		5.87	<0.2	3.58	3	<10	210	<0.5	<2	2.04	<0.5	28	143	128	4.81	10
G0558672		2.70	<0.2	3.76	<2	<10	220	<0.5	<2	2.03	<0.5	30	148	178	5.00	10
G0558673		6.01	<0.2	3.29	<2	<10	170	<0.5	<2	1.99	<0.5	28	179	92	4.94	10
G0558674		6.04	<0.2	3.73	<2	<10	90	<0.5	<2	2.43	<0.5	18	250	56	2.08	10
G0558675		0.35	13.7	1.56	53	<10	20	<0.5	<2	3.19	4.1	35	28	>10000	7.04	<10
G0558676		5.60	<0.2	2.72	4	<10	70	<0.5	<2	1.96	<0.5	17	147	225	2.70	10
G0558677		5.56	<0.2	2.66	2	<10	80	<0.5	<2	1.87	<0.5	15	94	106	2.79	10
G0558678		5.92	<0.2	2.45	3	<10	90	<0.5	<2	1.62	<0.5	16	56	152	3.70	10
G0558679		5.74	<0.2	2.79	10	<10	30	<0.5	<2	2.23	<0.5	21	287	111	2.23	10
G0558680		2.31	<0.2	0.05	<2	<10	<10	<0.5	<2	19.3	<0.5	1	2	2	0.37	<10
G0558681		6.52	<0.2	2.34	27	<10	20	<0.5	<2	2.20	<0.5	19	207	129	2.11	<10
G0558682		5.88	0.2	2.34	7	<10	10	<0.5	<2	3.12	<0.5	15	60	284	3.11	10
G0558683		3.86	<0.2	4.48	4	<10	70	<0.5	<2	3.92	<0.5	27	154	168	5.28	10
G0558684		4.84	<0.2	4.57	14	<10	100	<0.5	<2	2.45	<0.5	27	196	91	4.56	10
G0558685		5.01	<0.2	2.14	4	<10	<10	<0.5	<2	2.68	<0.5	11	33	76	2.17	10
G0558686		3.24	0.3	6.62	18	<10	10	<0.5	<2	8.8	<0.5	19	10	88	1.69	10



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - B

Total # Pages: 2 (A - C)

Finalized Date: 22-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10091230

Sample Description	Method Analyte Units LOR	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
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
G0558651		<1	0.46	<10	1.16	260	<1	0.38	50	870	9	0.04	<2	4	188
G0558652		<1	0.46	<10	0.97	256	<1	0.39	24	990	5	0.06	<2	4	178
G0558653		<1	0.24	<10	0.97	258	<1	0.31	31	800	5	0.05	<2	4	121
G0558654		<1	0.78	<10	1.39	427	<1	0.32	49	540	<2	0.22	<2	7	267
G0558655		<1	1.60	<10	1.88	587	<1	0.34	67	400	<2	0.13	<2	7	318
G0558656		<1	2.68	<10	2.75	743	<1	0.19	59	600	<2	0.14	<2	9	61
G0558657		<1	2.27	<10	2.38	606	<1	0.15	56	570	12	0.21	<2	7	41
G0558658		<1	0.14	<10	0.67	386	193	0.08	25	540	38	1.70	21	4	38
G0558659		<1	0.97	<10	1.54	371	<1	0.27	43	570	<2	0.15	<2	6	113
G0558660		<1	2.12	<10	3.02	460	<1	0.23	47	650	3	0.11	<2	9	81
G0558661		1	0.54	<10	1.08	311	<1	0.28	16	990	2	0.07	<2	4	156
G0558662		1	2.15	<10	3.93	418	<1	0.25	49	530	2	0.09	<2	11	87
G0558663		<1	0.71	<10	2.32	416	<1	0.19	93	580	92	0.12	<2	6	84
G0558664		<1	0.02	<10	11.95	179	<1	0.01	<1	250	3	<0.01	<2	<1	54
G0558665		1	2.15	<10	2.79	443	<1	0.25	69	380	<2	0.13	<2	8	134
G0558666		<1	1.58	<10	2.49	461	<1	0.17	57	380	2	0.36	<2	7	100
G0558667		1	2.11	<10	2.52	443	<1	0.26	64	330	4	0.13	<2	6	111
G0558668		<1	1.47	<10	1.89	341	<1	0.29	63	580	<2	0.09	<2	4	117
G0558669		<1	0.91	<10	1.37	299	<1	0.30	30	410	3	0.20	<2	6	135
G0558670		<1	0.71	<10	1.31	279	<1	0.25	41	420	2	0.23	<2	5	121
G0558671		1	1.38	<10	2.09	450	<1	0.35	77	460	<2	0.09	<2	9	159
G0558672		<1	1.53	<10	2.30	463	<1	0.32	82	450	6	0.10	<2	9	155
G0558673		<1	1.40	<10	2.46	474	<1	0.32	93	380	2	0.12	<2	11	166
G0558674		<1	0.60	<10	2.27	263	<1	0.33	137	540	<2	0.08	<2	6	241
G0558675		1	0.22	<10	1.08	586	401	0.10	45	1020	71	6.2	43	7	100
G0558676		<1	0.69	<10	1.75	316	1	0.26	79	510	2	0.12	<2	6	118
G0558677		<1	0.59	<10	1.09	302	<1	0.25	55	810	3	0.12	<2	3	138
G0558678		<1	0.76	<10	1.21	350	<1	0.26	36	980	<2	0.12	<2	3	98
G0558679		<1	0.40	<10	2.15	254	<1	0.24	171	490	5	0.13	<2	6	117
G0558680		<1	0.02	<10	11.90	178	<1	0.01	<1	250	3	<0.01	<2	<1	57
G0558681		<1	0.23	<10	1.61	244	2	0.20	131	690	2	0.10	<2	5	89
G0558682		<1	0.15	<10	1.50	410	1	0.15	35	960	<2	0.13	<2	6	99
G0558683		<1	1.23	<10	4.22	795	<1	0.13	64	370	2	0.14	<2	15	95
G0558684		<1	1.65	<10	2.92	419	<1	0.32	81	520	<2	0.16	<2	10	156
G0558685		<1	0.13	<10	0.88	346	<1	0.20	18	1070	2	0.06	<2	7	129
G0558686		<1	0.05	10	0.37	559	<1	0.27	12	920	4	0.60	<2	3	371



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 2 - C

Total # Pages: 2 (A - C)

Finalized Date: 22-JUL-2010

Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10091230

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Au-AA24
		Ti	Ti	U	V	W	Zn	Cu	Au
		%	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	10	10	1	10	2	0.001	0.005
G0558651		0.16	<10	<10	70	<10	35		0.005
G0558652		0.19	<10	<10	86	<10	24		0.005
G0558653		0.14	<10	<10	64	<10	24		<0.005
G0558654		0.23	<10	<10	137	<10	34		0.016
G0558655		0.34	<10	<10	186	<10	54		0.029
G0558656		0.66	<10	<10	324	<10	73		0.007
G0558657		0.64	<10	<10	315	<10	67		0.023
G0558658		0.12	<10	<10	55	10	134	1.230	0.984
G0558659		0.39	<10	<10	192	<10	39		0.046
G0558660		0.48	<10	<10	291	<10	57		0.005
G0558661		0.24	<10	<10	133	<10	28		0.034
G0558662		0.35	<10	<10	257	<10	57		<0.005
G0558663		0.26	<10	<10	139	<10	214		0.007
G0558664		<0.01	<10	<10	1	<10	14		<0.005
G0558665		0.42	<10	<10	185	<10	66		0.012
G0558666		0.35	<10	<10	149	<10	79		0.175
G0558667		0.43	<10	<10	204	<10	65		0.008
G0558668		0.32	<10	<10	141	<10	45		0.009
G0558669		0.28	<10	<10	118	<10	37		0.016
G0558670		0.23	<10	<10	99	<10	32		0.007
G0558671		0.38	<10	<10	166	<10	56		0.022
G0558672		0.38	<10	<10	166	<10	66		0.030
G0558673		0.35	<10	<10	177	<10	53		0.010
G0558674		0.11	<10	<10	57	<10	21		<0.005
G0558675		0.05	<10	<10	82	<10	140	3.31	7.24
G0558676		0.19	<10	<10	92	<10	34		0.054
G0558677		0.17	<10	<10	93	<10	34		0.012
G0558678		0.21	<10	<10	118	<10	33		0.021
G0558679		0.10	<10	<10	57	<10	57		0.010
G0558680		<0.01	<10	<10	<1	<10	14		<0.005
G0558681		0.12	<10	<10	58	<10	39		0.146
G0558682		0.18	<10	<10	109	<10	46		0.345
G0558683		0.31	<10	<10	164	<10	75		0.024
G0558684		0.34	<10	<10	175	<10	49		0.012
G0558685		0.16	<10	<10	104	<10	22		0.157
G0558686		0.12	<10	<10	43	<10	20		0.021



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 29-JUL-2010
Account: F

CERTIFICATE WH10095936

Project: ARN

P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
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
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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 Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 29-JUL-2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10095936

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
G0558687		4.86	0.2	0.59	36	<10	<10	<0.5	<2	>25.0	<0.5	45	6	78	2.48	<10
G0558688		5.68	<0.2	2.81	20	<10	10	<0.5	<2	10.6	<0.5	5	11	6	1.70	10
G0558689		4.62	<0.2	1.83	14	<10	10	<0.5	<2	18.2	<0.5	6	25	13	1.44	<10
G0558690		5.29	<0.2	1.98	13	<10	10	<0.5	<2	17.4	<0.5	17	73	32	2.27	<10
G0558691		5.52	<0.2	3.02	<2	<10	20	<0.5	<2	2.48	<0.5	17	72	30	3.02	10
G0558692		5.93	0.2	1.80	9	<10	10	<0.5	<2	10.6	<0.5	22	40	525	3.88	<10
G0558693		2.28	0.2	0.04	4	<10	10	<0.5	<2	20.8	<0.5	<1	1	<1	0.40	<10
G0558694		5.79	<0.2	1.36	21	<10	10	<0.5	<2	15.5	<0.5	5	14	74	1.02	<10
G0558695		5.57	<0.2	0.29	25	<10	10	<0.5	<2	>25.0	<0.5	1	23	12	0.36	<10
G0558696		4.86	<0.2	3.73	14	<10	10	<0.5	<2	14.2	<0.5	13	81	133	1.96	10
G0558697		5.64	0.3	3.09	13	<10	10	<0.5	<2	8.0	<0.5	58	35	329	4.36	10
G0558698		5.19	<0.2	4.91	16	<10	30	<0.5	<2	5.08	<0.5	19	42	199	2.56	10
G0558699		0.32	13.9	1.49	56	<10	40	<0.5	2	3.27	4.3	33	28	>10000	7.25	10
G0558700		5.30	0.2	4.53	33	<10	30	<0.5	<2	4.66	<0.5	45	106	423	4.91	10
G0558701		6.03	<0.2	4.96	11	<10	90	<0.5	<2	3.44	<0.5	24	153	112	4.73	10
G0558702		5.18	<0.2	4.81	2	<10	70	<0.5	<2	2.61	<0.5	29	149	165	6.39	20
G0558703		6.54	<0.2	5.27	3	<10	120	<0.5	<2	2.89	<0.5	30	123	179	5.58	10
G0558704		5.43	<0.2	4.79	<2	<10	140	<0.5	<2	1.84	<0.5	34	148	152	6.92	20
G0558705		3.71	<0.2	4.57	3	<10	150	<0.5	<2	1.30	<0.5	40	164	162	7.61	20
G0558706		5.90	<0.2	4.30	<2	<10	170	<0.5	<2	1.79	<0.5	35	128	160	6.45	10
G0558707		5.48	0.2	2.97	10	<10	40	<0.5	<2	2.74	<0.5	17	33	157	2.94	10
G0558708		6.09	<0.2	4.77	13	<10	130	<0.5	4	2.21	<0.5	33	149	247	5.23	10
G0558709		2.82	0.2	0.06	5	<10	20	<0.5	2	20.6	<0.5	1	2	<1	0.39	<10
G0558710		5.76	<0.2	3.24	12	<10	80	<0.5	<2	2.09	<0.5	30	73	235	3.97	10
G0558711		5.64	<0.2	2.95	10	<10	70	<0.5	<2	2.12	<0.5	20	58	172	2.80	10
G0558712		5.39	<0.2	3.60	12	<10	150	<0.5	<2	1.93	<0.5	28	129	113	4.71	10
G0558713		5.56	<0.2	3.19	7	<10	160	<0.5	<2	1.50	<0.5	29	132	66	5.00	10
G0558714		6.23	<0.2	2.79	7	<10	70	<0.5	<2	2.24	<0.5	21	67	145	3.23	10
G0558715		6.36	<0.2	4.38	12	<10	110	<0.5	<2	2.61	<0.5	34	229	241	3.69	10
G0558716		0.34	4.6	1.47	20	<10	90	<0.5	4	0.76	1.8	9	40	>10000	3.63	10
G0558717		6.39	<0.2	4.04	12	<10	90	<0.5	<2	2.77	<0.5	32	122	355	4.30	10
G0558718		6.12	<0.2	3.64	40	<10	100	<0.5	<2	2.58	<0.5	36	116	164	5.26	10
G0558719		5.99	<0.2	3.48	37	<10	90	<0.5	<2	2.74	<0.5	39	113	277	5.14	10
G0558720		6.09	<0.2	3.79	20	<10	60	<0.5	<2	3.21	<0.5	27	91	225	3.86	10
G0558721		6.65	<0.2	4.16	5	<10	60	<0.5	<2	3.44	<0.5	31	94	275	4.53	10
G0558722		6.42	<0.2	3.48	18	<10	30	<0.5	<2	3.04	<0.5	24	79	199	3.61	10



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 29-JUL-2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10095936

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
G0558687		<1	0.02	<10	0.25	609	3	0.04	19	220	<2	2.1	<2	1	267	<20
G0558688		<1	0.06	<10	0.56	648	1	0.18	7	710	<2	0.05	<2	4	209	<20
G0558689		<1	0.04	<10	0.73	673	2	0.11	25	490	<2	<0.01	<2	2	221	<20
G0558690		1	0.03	<10	1.61	632	1	0.12	68	440	<2	<0.01	<2	1	163	<20
G0558691		<1	0.06	<10	1.81	449	2	0.26	71	820	<2	0.09	<2	2	118	<20
G0558692		<1	0.06	<10	0.94	470	3	0.16	51	680	<2	1.17	<2	1	129	<20
G0558693		<1	0.02	<10	13.15	181	<1	0.01	<1	220	<2	<0.01	<2	<1	47	<20
G0558694		<1	0.07	<10	0.40	423	2	0.13	7	690	<2	0.17	<2	1	170	<20
G0558695		<1	0.06	<10	0.44	634	<1	0.02	9	90	<2	<0.01	<2	1	244	<20
G0558696		<1	0.19	<10	0.72	546	<1	0.13	64	540	<2	0.42	<2	2	208	<20
G0558697		1	0.07	<10	0.29	736	2	0.14	109	470	<2	1.64	<2	5	136	<20
G0558698		1	0.14	<10	0.39	402	1	0.36	28	1130	<2	0.62	<2	5	324	<20
G0558699		<1	0.22	<10	1.09	587	415	0.10	47	990	69	5.79	48	8	93	<20
G0558700		1	0.33	<10	1.06	573	1	0.29	93	540	<2	1.32	<2	11	197	<20
G0558701		<1	1.26	<10	1.74	584	1	0.41	67	610	<2	0.20	<2	11	199	<20
G0558702		<1	1.96	<10	1.98	556	<1	0.36	64	430	<2	0.32	<2	12	138	<20
G0558703		<1	1.90	<10	2.12	565	<1	0.33	67	500	<2	0.30	<2	7	206	<20
G0558704		<1	2.81	<10	3.48	654	1	0.25	64	470	<2	0.08	2	10	108	<20
G0558705		<1	2.99	<10	3.62	631	<1	0.22	74	460	<2	0.33	<2	11	87	<20
G0558706		1	2.17	<10	2.53	643	<1	0.28	65	490	<2	0.32	<2	9	136	<20
G0558707		1	0.42	<10	0.84	367	1	0.30	23	1310	<2	0.55	<2	4	163	<20
G0558708		1	1.79	<10	2.34	402	2	0.34	77	440	<2	1.13	<2	7	156	<20
G0558709		<1	0.03	<10	12.95	181	<1	0.01	<1	250	<2	<0.01	<2	<1	55	<20
G0558710		1	0.77	<10	1.29	265	1	0.40	44	910	<2	1.26	<2	5	166	<20
G0558711		<1	0.69	<10	1.10	243	1	0.33	41	1150	<2	0.53	<2	3	159	<20
G0558712		<1	1.32	<10	2.03	401	<1	0.31	63	360	<2	0.43	2	7	113	<20
G0558713		<1	1.55	<10	2.36	447	<1	0.25	57	390	<2	0.30	<2	7	72	<20
G0558714		<1	0.50	<10	1.19	342	1	0.29	45	640	<2	0.46	<2	5	109	<20
G0558715		<1	1.00	<10	2.09	268	1	0.34	151	430	<2	1.03	<2	6	212	<20
G0558716		<1	0.14	<10	0.67	387	213	0.09	26	520	34	1.64	23	5	37	<20
G0558717		<1	0.68	<10	1.64	391	1	0.37	88	500	<2	1.32	<2	4	186	<20
G0558718		<1	0.85	<10	1.80	381	2	0.34	70	540	<2	1.61	<2	6	146	<20
G0558719		<1	0.83	<10	1.40	325	<1	0.34	67	400	<2	1.77	<2	5	169	<20
G0558720		<1	0.43	<10	1.08	343	<1	0.43	63	560	<2	0.94	<2	6	198	<20
G0558721		<1	0.71	<10	1.45	367	1	0.34	59	570	<2	1.01	<2	5	165	<20
G0558722		<1	0.33	<10	1.14	315	<1	0.26	54	670	<2	0.71	2	4	123	<20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 29-JUL-2010
 Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10095936

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Cu-OG46 Cu %	Au-AA24 Au ppm
		0.01	10	10	1	10	2	0.001	0.005
G0558687		0.01	<10	40	16	<10	10		0.012
G0558688		0.10	<10	<10	58	<10	26		0.010
G0558689		0.06	<10	20	34	<10	22		0.081
G0558690		0.07	<10	10	48	<10	31		<0.005
G0558691		0.14	<10	<10	76	<10	40		<0.005
G0558692		0.08	<10	<10	48	<10	38		0.010
G0558693		<0.01	<10	20	2	<10	13		<0.005
G0558694		0.06	<10	20	27	<10	23		<0.005
G0558695		0.01	<10	40	11	<10	8		<0.005
G0558696		0.07	<10	10	31	<10	24		0.008
G0558697		0.18	<10	<10	67	<10	27		0.011
G0558698		0.21	<10	<10	101	<10	23		0.008
G0558699		0.05	<10	<10	80	<10	137	3.32	7.75
G0558700		0.31	<10	<10	168	<10	42		0.018
G0558701		0.39	<10	<10	184	<10	52		0.009
G0558702		0.46	10	<10	223	<10	57		0.014
G0558703		0.45	<10	<10	251	<10	53		0.015
G0558704		0.53	10	<10	255	<10	62		0.010
G0558705		0.55	<10	<10	262	<10	65		0.008
G0558706		0.48	<10	<10	242	<10	60		0.010
G0558707		0.18	<10	<10	90	<10	40		0.008
G0558708		0.46	<10	<10	197	<10	39		0.272
G0558709		<0.01	<10	20	3	<10	12		<0.005
G0558710		0.27	<10	<10	105	<10	24		0.042
G0558711		0.20	<10	<10	83	<10	27		0.011
G0558712		0.38	10	<10	162	<10	39		0.028
G0558713		0.38	<10	<10	170	<10	45		0.006
G0558714		0.22	<10	<10	105	<10	29		0.025
G0558715		0.19	<10	<10	76	<10	31		0.011
G0558716		0.12	<10	<10	53	<10	128	1.295	0.938
G0558717		0.27	<10	<10	106	<10	42		0.027
G0558718		0.33	<10	<10	153	<10	35		0.009
G0558719		0.36	<10	<10	153	<10	31		0.007
G0558720		0.23	<10	<10	112	<10	33		0.010
G0558721		0.29	<10	<10	135	<10	37		0.011
G0558722		0.24	<10	<10	94	<10	32		0.013



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 2-AUG-2010
Account: F

CERTIFICATE WH10100509

Project: ARN

P.O. No.: BATCH 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
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
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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 Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 2-AUG-2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10100509

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
G0558723		6.30	<0.2	3.98	23	<10	90	<0.5	<2	2.25	<0.5	28	120	107	4.24	10
G0558724		6.20	<0.2	4.87	<2	<10	100	<0.5	<2	2.05	<0.5	35	179	201	5.50	20
G0558725		6.57	<0.2	3.56	2	<10	100	<0.5	<2	2.25	<0.5	25	126	52	4.49	10
G0558726		6.76	<0.2	6.02	2	<10	130	<0.5	<2	2.55	<0.5	35	239	52	5.92	20
G0558727		6.24	<0.2	4.84	<2	<10	100	<0.5	<2	2.28	<0.5	25	190	144	4.41	20
G0558728		5.60	<0.2	2.11	8	<10	50	<0.5	<2	2.05	<0.5	15	41	68	2.82	10
G0558729		0.30	14.1	1.49	53	<10	30	<0.5	<2	3.27	4.8	36	28	>10000	7.22	10
G0558730		5.71	<0.2	3.52	3	<10	70	<0.5	<2	2.38	<0.5	25	114	78	5.21	10
G0558731		5.75	<0.2	3.81	8	<10	90	<0.5	<2	2.30	<0.5	22	108	55	4.61	10
G0558732		4.92	<0.2	3.25	8	<10	50	<0.5	<2	3.15	<0.5	21	106	80	4.54	10
G0558733		5.70	<0.2	4.18	7	<10	120	<0.5	<2	1.72	<0.5	30	189	111	5.66	10
G0558734		4.51	0.2	3.35	3	<10	30	<0.5	<2	2.35	<0.5	24	180	185	3.83	10
G0558735		5.80	<0.2	5.08	2	<10	40	<0.5	<2	3.63	<0.5	24	96	123	5.03	10
G0558736		6.02	<0.2	3.39	4	<10	70	<0.5	<2	2.18	<0.5	21	156	146	4.62	10
G0558737		6.47	<0.2	3.09	2	<10	70	<0.5	<2	1.97	<0.5	20	104	184	4.86	10
G0558738		2.93	<0.2	0.05	2	<10	10	<0.5	<2	18.7	<0.5	<1	<1	3	0.38	<10
G0558739		6.50	<0.2	2.89	2	<10	70	<0.5	<2	2.01	<0.5	16	82	142	3.71	10
G0558740		6.52	<0.2	2.66	<2	<10	90	<0.5	<2	1.82	<0.5	19	102	187	3.49	10
G0558741		7.11	<0.2	2.82	3	<10	50	<0.5	<2	2.11	<0.5	16	99	205	3.26	10
G0558742		5.99	<0.2	2.68	2	<10	50	<0.5	<2	2.16	<0.5	24	80	326	3.51	10
G0558743		6.66	<0.2	2.69	<2	<10	80	<0.5	<2	2.16	<0.5	16	67	227	3.29	10
G0558744		6.65	<0.2	2.82	2	<10	170	<0.5	<2	1.71	<0.5	17	105	145	3.60	10
G0558745		2.71	<0.2	2.87	<2	<10	180	<0.5	<2	1.66	<0.5	19	106	162	3.74	10
G0558746		6.20	<0.2	2.83	<2	<10	140	<0.5	<2	1.84	<0.5	19	100	166	3.79	10
G0558747		5.07	<0.2	3.53	2	<10	170	<0.5	<2	2.21	<0.5	17	86	173	3.91	10
G0558748		0.31	4.6	1.52	23	<10	90	<0.5	<2	0.76	2.2	11	40	>10000	3.72	<10
G0558749		5.65	<0.2	3.61	6	<10	100	<0.5	<2	2.32	<0.5	20	85	221	3.75	10
G0558750		5.74	<0.2	3.55	<2	<10	150	<0.5	<2	2.18	<0.5	18	95	155	3.92	10
G0558751		5.91	<0.2	3.50	3	<10	120	<0.5	<2	2.31	<0.5	17	106	125	3.76	10
G0558752		6.12	<0.2	3.86	17	<10	60	<0.5	<2	2.67	<0.5	19	45	252	2.94	10
G0558753		2.88	<0.2	0.05	<2	<10	10	<0.5	<2	19.3	<0.5	<1	<1	5	0.38	<10
G0558754		6.12	<0.2	3.40	13	<10	80	<0.5	<2	2.47	<0.5	21	68	393	3.28	10
G0558755		6.09	<0.2	4.51	5	<10	110	<0.5	<2	3.06	<0.5	18	67	173	3.61	10
G0558756		6.22	<0.2	5.01	<2	<10	120	<0.5	<2	3.24	<0.5	18	53	159	3.74	10
G0558757		5.95	<0.2	4.02	19	<10	50	<0.5	<2	3.15	<0.5	22	60	264	3.18	10
G0558758		5.68	<0.2	4.33	3	<10	130	<0.5	<2	3.00	<0.5	21	89	140	4.37	10



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 2-AUG-2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10100509

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
G0558723		1	1.25	<10	1.77	347	1	0.35	84	530	3	0.61	<2	5	146	<20
G0558724		<1	2.14	<10	2.66	482	1	0.32	80	400	<2	0.30	<2	7	119	<20
G0558725		<1	1.40	<10	2.02	523	1	0.22	59	520	<2	0.06	<2	7	95	<20
G0558726		<1	2.96	<10	3.49	599	1	0.38	111	390	2	0.07	<2	7	158	<20
G0558727		<1	2.03	<10	2.90	453	1	0.30	88	550	<2	0.08	<2	6	135	<20
G0558728		<1	0.60	<10	1.06	424	1	0.16	16	1080	3	0.24	<2	4	63	<20
G0558729		1	0.21	<10	1.09	600	394	0.10	46	1020	70	6.7	48	8	94	<20
G0558730		<1	1.09	<10	2.40	510	2	0.14	43	650	<2	0.11	<2	7	69	<20
G0558731		<1	1.10	<10	1.60	408	2	0.34	45	750	<2	0.11	<2	6	123	<20
G0558732		<1	0.70	<10	1.81	649	1	0.23	54	590	<2	0.16	<2	9	101	<20
G0558733		1	1.84	<10	2.31	434	7	0.38	69	410	2	0.20	<2	7	116	<20
G0558734		<1	0.10	<10	2.51	515	1	0.22	103	550	2	0.08	<2	4	174	<20
G0558735		<1	0.17	<10	1.68	489	1	0.44	52	280	<2	0.04	<2	4	414	<20
G0558736		2	0.23	<10	1.45	346	1	0.37	51	410	6	0.06	<2	3	293	<20
G0558737		1	0.24	<10	1.21	281	1	0.37	39	960	5	0.07	<2	3	233	<20
G0558738		<1	0.02	<10	11.95	177	<1	0.02	2	240	<2	<0.01	<2	<1	52	<20
G0558739		1	0.27	<10	1.18	342	1	0.36	35	830	5	0.06	<2	3	151	<20
G0558740		1	0.29	<10	1.25	339	1	0.31	48	860	5	0.13	<2	3	129	<20
G0558741		1	0.21	<10	1.23	339	2	0.25	46	820	4	0.13	<2	3	144	<20
G0558742		1	0.23	<10	1.18	369	<1	0.29	45	860	5	0.36	<2	4	122	<20
G0558743		1	0.30	<10	1.09	353	<1	0.27	36	910	5	0.10	<2	3	128	<20
G0558744		<1	0.56	<10	1.16	302	<1	0.35	43	810	4	0.05	<2	3	146	<20
G0558745		1	0.61	<10	1.21	299	1	0.36	47	780	4	0.05	<2	3	147	<20
G0558746		<1	0.41	<10	1.27	329	1	0.35	44	820	4	0.12	<2	3	139	<20
G0558747		1	0.56	<10	1.24	315	<1	0.45	36	870	5	0.05	<2	4	195	<20
G0558748		1	0.13	<10	0.68	390	215	0.09	26	520	38	1.67	22	5	38	<20
G0558749		1	0.38	<10	1.11	326	1	0.43	35	760	4	0.17	<2	3	193	<20
G0558750		1	0.51	<10	1.08	288	<1	0.45	39	760	6	0.06	<2	3	203	<20
G0558751		1	0.49	<10	1.11	323	1	0.44	41	800	5	0.07	<2	4	198	<20
G0558752		1	0.26	<10	0.98	296	1	0.42	24	770	4	0.24	<2	3	216	<20
G0558753		1	0.02	<10	12.30	182	<1	0.02	2	260	<2	<0.01	<2	<1	52	<20
G0558754		1	0.30	<10	1.03	306	1	0.38	31	730	3	0.34	<2	4	195	<20
G0558755		<1	0.38	<10	1.16	393	1	0.45	32	660	4	0.10	<2	4	230	<20
G0558756		1	0.47	<10	1.08	374	1	0.47	28	700	6	0.10	<2	3	267	<20
G0558757		1	0.16	<10	1.27	427	1	0.35	33	680	5	0.14	<2	5	207	<20
G0558758		1	0.44	<10	1.27	440	1	0.43	39	650	6	0.14	<2	6	243	<20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 2-AUG-2010
 Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10100509

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Cu-OG46 Cu %	Au-AA24 Au ppm
		0.01	10	10	1	10	2	0.001	0.005
G0558723		0.32	<10	<10	137	<10	38		0.008
G0558724		0.47	<10	<10	214	<10	67		0.014
G0558725		0.39	<10	<10	180	<10	53		0.088
G0558726		0.52	<10	<10	208	<10	67		0.006
G0558727		0.37	<10	<10	150	<10	55		0.035
G0558728		0.18	<10	<10	83	<10	32		0.037
G0558729		0.04	<10	<10	80	<10	142	3.57	8.03
G0558730		0.38	<10	<10	196	<10	46		0.039
G0558731		0.37	<10	<10	171	<10	39		0.028
G0558732		0.26	<10	<10	130	<10	40		0.026
G0558733		0.48	<10	<10	239	<10	53		0.039
G0558734		0.19	<10	<10	126	<10	47		0.030
G0558735		0.15	<10	<10	234	<10	42		0.039
G0558736		0.15	<10	<10	218	<10	49		0.024
G0558737		0.17	<10	<10	276	<10	46		0.028
G0558738		<0.01	<10	10	1	<10	15		<0.005
G0558739		0.18	<10	<10	174	<10	51		0.030
G0558740		0.18	<10	<10	151	<10	49		0.028
G0558741		0.17	<10	<10	144	<10	45		0.033
G0558742		0.18	<10	<10	152	<10	43		0.042
G0558743		0.17	<10	<10	141	<10	45		0.044
G0558744		0.19	<10	<10	179	<10	48		0.021
G0558745		0.19	<10	<10	182	<10	49		0.023
G0558746		0.21	<10	<10	178	<10	51		0.017
G0558747		0.20	<10	<10	202	<10	52		0.025
G0558748		0.13	<10	<10	57	10	130	1.310	1.060
G0558749		0.20	<10	<10	191	<10	42		0.075
G0558750		0.18	<10	<10	210	<10	42		0.040
G0558751		0.17	<10	<10	192	<10	44		0.033
G0558752		0.18	<10	<10	133	<10	39		0.168
G0558753		<0.01	<10	10	1	<10	15		<0.005
G0558754		0.18	<10	<10	138	<10	43		0.741
G0558755		0.17	<10	<10	162	<10	53		0.054
G0558756		0.17	<10	<10	200	<10	51		0.069
G0558757		0.15	<10	<10	151	<10	49		0.084
G0558758		0.17	<10	<10	207	<10	69		0.057



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 30- AUG- 2010
Account: F

CERTIFICATE WH10103514

Project: ARN

P.O. No.: BATCH 4

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
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
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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 Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 30- AUG- 2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10103514

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
G0558759		5.31	0.5	3.68	23	<10	100	<0.5	<2	3.58	<0.5	26	77	307	4.04	10
G0558760		6.89	<0.2	3.56	7	<10	130	<0.5	<2	2.47	<0.5	19	78	158	3.62	10
G0558761		5.95	<0.2	4.07	5	<10	160	<0.5	<2	2.80	<0.5	21	67	220	4.59	10
G0558762		6.38	0.2	3.31	4	<10	130	<0.5	<2	2.54	<0.5	19	59	227	3.59	10
G0558763		6.95	0.2	3.68	2	<10	140	<0.5	<2	2.38	<0.5	17	58	228	3.78	10
G0558764		0.26	14.0	1.49	54	<10	20	<0.5	6	3.20	4.1	33	27	>10000	7.02	10
G0558765		6.23	<0.2	4.62	3	<10	140	<0.5	2	3.02	<0.5	16	59	206	3.74	10
G0558766		6.19	<0.2	3.94	4	<10	80	<0.5	3	2.74	<0.5	16	68	198	3.21	10
G0558767		5.75	0.2	3.30	6	<10	80	<0.5	<2	2.60	<0.5	18	111	192	3.75	10
G0558768		5.15	<0.2	2.95	<2	<10	60	<0.5	<2	2.20	<0.5	13	77	169	2.67	10
G0558769		6.61	<0.2	3.80	<2	<10	40	<0.5	2	2.99	<0.5	11	75	161	2.29	10
G0558770		3.02	0.3	3.67	2	<10	40	<0.5	2	2.78	<0.5	10	69	203	2.07	10
G0558771		6.47	<0.2	3.03	<2	<10	40	<0.5	2	2.91	<0.5	9	49	155	1.88	10
G0558772		6.73	0.2	2.64	<2	<10	60	<0.5	2	2.16	<0.5	11	98	202	2.34	10
G0558773		2.60	0.3	0.05	<2	<10	20	<0.5	3	19.40	<0.5	2	1	3	0.37	<10
G0558774		6.56	0.3	3.96	4	<10	70	<0.5	2	2.96	<0.5	15	104	179	2.69	10
G0558775		6.31	0.4	4.01	<2	<10	20	<0.5	2	3.58	<0.5	12	34	313	1.52	10
G0558776		6.52	0.6	4.00	5	<10	30	<0.5	3	3.22	<0.5	9	43	717	1.42	10
G0558777		7.01	0.2	4.30	5	<10	50	<0.5	2	3.21	<0.5	11	62	147	1.70	10
G0558778		6.75	0.2	5.00	<2	<10	20	<0.5	3	4.26	<0.5	5	18	107	1.01	10
G0558779		5.88	<0.2	4.14	5	<10	20	<0.5	3	3.74	<0.5	7	5	211	1.08	10
G0558780		7.48	0.3	4.16	6	<10	10	<0.5	2	3.35	<0.5	9	65	356	1.42	10
G0558781		6.24	0.3	3.23	5	<10	40	<0.5	<2	2.54	<0.5	14	53	398	2.05	10
G0558782		0.26	4.7	1.53	22	<10	90	<0.5	<2	0.78	2.1	11	47	>10000	3.65	10
G0558783		6.50	<0.2	4.36	<2	<10	100	<0.5	<2	2.83	<0.5	16	71	233	3.68	10
G0558784		6.11	<0.2	3.66	6	<10	80	<0.5	2	2.28	<0.5	15	96	142	2.93	10
G0558785		6.19	0.4	3.93	<2	<10	50	<0.5	3	2.80	<0.5	16	64	429	2.95	10
G0558786		6.51	0.4	3.93	4	<10	20	<0.5	3	3.09	<0.5	10	13	454	1.29	10
G0558787		6.73	0.2	4.58	4	<10	40	<0.5	3	3.62	<0.5	7	29	264	1.47	10
G0558788		6.39	0.2	3.49	2	<10	30	<0.5	2	2.94	<0.5	8	53	185	1.52	10
G0558789		4.25	<0.2	0.08	<2	<10	10	<0.5	<2	19.5	<0.5	<1	1	5	0.39	<10
G0558790		6.60	0.2	3.29	3	<10	50	<0.5	<2	2.50	<0.5	19	131	373	2.57	10
G0558791		6.44	0.2	3.48	5	<10	80	<0.5	<2	2.39	<0.5	20	90	154	3.13	10
G0558792		6.54	<0.2	3.31	6	<10	80	<0.5	3	2.50	<0.5	23	61	292	3.78	10
G0558793		6.46	0.3	5.34	<2	<10	80	<0.5	4	3.84	<0.5	19	52	264	3.70	10
G0558794		5.39	<0.2	4.66	2	<10	100	<0.5	2	2.99	<0.5	22	85	153	4.12	10



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 30- AUG- 2010
Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10103514

Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
G0558759		<1	0.34	<10	1.49	651	<1	0.40	45	790	6	0.39	<2	8	207	<20
G0558760		<1	0.44	<10	1.28	437	<1	0.43	39	920	4	0.13	<2	4	190	<20
G0558761		1	0.49	<10	1.28	443	<1	0.49	34	860	6	0.16	<2	4	219	<20
G0558762		<1	0.36	<10	1.17	433	<1	0.43	32	940	5	0.27	<2	4	179	<20
G0558763		<1	0.50	<10	1.18	400	<1	0.45	32	920	3	0.13	<2	4	177	<20
G0558764		<1	0.22	<10	1.06	573	366	0.10	44	1010	69	5.9	41	7	95	<20
G0558765		<1	0.50	<10	1.11	348	<1	0.51	25	1160	2	0.07	<2	4	252	<20
G0558766		<1	0.24	<10	1.24	358	1	0.43	32	1010	2	0.08	<2	4	207	<20
G0558767		<1	0.30	<10	1.38	446	<1	0.38	45	700	3	0.11	<2	5	163	<20
G0558768		<1	0.21	<10	0.93	290	1	0.38	30	570	2	0.07	<2	5	172	<20
G0558769		1	0.15	<10	0.74	265	<1	0.45	24	430	<2	0.10	<2	5	236	<20
G0558770		<1	0.13	<10	0.64	221	<1	0.45	22	420	2	0.14	<2	5	246	<20
G0558771		<1	0.13	<10	0.60	211	<1	0.34	18	1920	<2	0.14	<2	4	167	<20
G0558772		<1	0.20	<10	0.71	234	1	0.31	41	580	19	0.08	<2	4	150	<20
G0558773		<1	0.02	<10	11.80	173	<1	0.02	<1	240	3	<0.50	<2	<1	52	<20
G0558774		1	0.21	<10	0.91	283	<1	0.44	39	470	5	0.16	<2	3	248	<20
G0558775		<1	0.06	<10	0.48	184	<1	0.36	16	1680	2	0.30	<2	3	214	<20
G0558776		1	0.08	<10	0.51	192	5	0.42	19	820	4	0.18	<2	3	261	<20
G0558777		<1	0.17	<10	0.69	203	<1	0.40	23	740	2	0.11	<2	3	235	<20
G0558778		<1	0.05	<10	0.33	161	<1	0.32	8	1290	<2	0.08	<2	2	209	<20
G0558779		<1	0.04	<10	0.40	175	<1	0.26	9	450	2	0.10	<2	1	164	<20
G0558780		<1	0.03	<10	0.41	160	2	0.22	12	420	<2	0.20	<2	1	145	<20
G0558781		<1	0.18	<10	0.81	237	<1	0.35	26	760	10	0.26	<2	3	197	<20
G0558782		<1	0.13	<10	0.69	387	178	0.12	26	530	36	1.59	18	5	40	<20
G0558783		<1	0.42	<10	0.98	321	<1	0.50	29	750	2	0.11	<2	3	261	<20
G0558784		<1	0.40	<10	1.15	293	<1	0.47	38	530	2	0.11	<2	4	223	<20
G0558785		<1	0.22	<10	0.96	299	8	0.47	32	560	3	0.25	<2	4	256	<20
G0558786		<1	0.06	<10	0.42	165	6	0.44	12	1000	2	0.26	<2	3	240	<20
G0558787		1	0.09	<10	0.47	175	1	0.47	14	1290	2	0.11	<2	3	293	<20
G0558788		<1	0.09	<10	0.56	187	2	0.39	20	980	<2	0.17	<2	5	230	<20
G0558789		<1	0.02	<10	12.25	187	<1	0.02	<1	340	<2	<0.01	<2	<1	56	<20
G0558790		<1	0.20	<10	1.33	304	3	0.35	91	720	<2	0.23	<2	4	217	<20
G0558791		<1	0.33	<10	1.31	329	<1	0.46	51	560	<2	0.15	<2	5	219	<20
G0558792		<1	0.29	10	1.20	351	<1	0.42	40	1720	2	0.26	<2	5	185	<20
G0558793		<1	0.50	<10	1.35	341	<1	0.57	35	630	3	0.12	<2	4	340	<20
G0558794		<1	0.28	<10	1.56	462	<1	0.60	42	540	2	0.06	<2	5	333	<20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 30- AUG- 2010
 Account: F

Project: ARN

CERTIFICATE OF ANALYSIS WH10103514

Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Cu- OG46 Cu %	Au- AA24 Au ppm
		0.01	10	10	1	10	2	0.001	0.005
G0558759		0.17	<10	<10	170	<10	61		0.046
G0558760		0.21	<10	<10	174	<10	68		0.026
G0558761		0.22	<10	<10	221	<10	74		0.033
G0558762		0.20	<10	<10	167	<10	59		0.040
G0558763		0.19	<10	<10	181	<10	59		0.087
G0558764		0.05	<10	<10	82	<10	131	3.36	7.88
G0558765		0.18	<10	<10	208	<10	60		0.035
G0558766		0.17	<10	<10	150	<10	48		0.046
G0558767		0.17	<10	<10	170	<10	47		0.031
G0558768		0.15	<10	<10	135	<10	42		0.047
G0558769		0.13	<10	<10	137	<10	32		0.051
G0558770		0.13	<10	<10	130	<10	31		0.054
G0558771		0.12	<10	<10	101	<10	30		0.109
G0558772		0.14	<10	<10	117	<10	49		0.073
G0558773		<0.01	<10	<10	3	<10	14		<0.005
G0558774		0.12	<10	<10	102	<10	36		0.040
G0558775		0.08	<10	<10	42	<10	36		0.135
G0558776		0.09	<10	<10	58	<10	40		0.367
G0558777		0.09	<10	<10	65	<10	31		0.039
G0558778		0.07	<10	<10	28	<10	23		0.044
G0558779		0.04	<10	<10	19	<10	32		0.458
G0558780		0.05	<10	<10	18	<10	29		0.186
G0558781		0.10	<10	<10	83	<10	59		0.145
G0558782		0.12	<10	<10	56	<10	125	1.310	0.908
G0558783		0.14	<10	<10	197	<10	42		0.043
G0558784		0.14	<10	<10	148	<10	33		0.044
G0558785		0.13	<10	<10	126	<10	37		0.182
G0558786		0.09	<10	<10	49	<10	35		0.195
G0558787		0.10	<10	<10	71	<10	30		0.107
G0558788		0.10	<10	<10	75	<10	27		0.071
G0558789		<0.01	<10	10	3	<10	13		<0.005
G0558790		0.09	<10	<10	86	<10	43		0.112
G0558791		0.12	<10	<10	140	<10	41		0.034
G0558792		0.16	<10	<10	168	<10	43		0.045
G0558793		0.12	<10	<10	172	<10	43		0.184
G0558794		0.13	<10	<10	195	<10	47		0.032



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8**

Page: 1
Finalized Date: 15- AUG- 2010
Account: F

CERTIFICATE WH10106223

Project: Arn
P.O. No.: Batch 5
This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT,
Canada on 3- AUG- 2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
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
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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 Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 15- AUG- 2010
Account: F

Project: Arn

CERTIFICATE OF ANALYSIS WH10106223

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10
G0558795		9.82	<0.2	1.49	4	<10	50	<0.5	<2	1.60	<0.5	10	45	17	2.85	<10
G0558796		10.02	0.2	2.40	6	<10	20	<0.5	<2	1.54	<0.5	36	172	104	2.60	<10
G0558797		7.27	<0.2	1.28	6	<10	10	<0.5	<2	0.84	<0.5	50	130	121	3.02	<10
G0558798		8.12	<0.2	2.05	20	<10	10	<0.5	<2	1.50	<0.5	51	170	151	4.64	<10
G0558799		10.53	<0.2	1.90	7	<10	50	<0.5	<2	2.15	<0.5	21	79	93	3.75	10
G0558800		11.98	<0.2	2.04	3	<10	60	<0.5	<2	2.28	<0.5	24	54	239	3.95	10
G0558801		0.30	4.7	1.58	22	<10	80	<0.5	7	0.79	2.0	11	41	>10000	3.75	<10
G0558802		10.03	0.2	2.15	3	<10	70	<0.5	<2	2.70	<0.5	16	31	188	3.18	10
G0558803		11.00	<0.2	1.73	3	<10	90	<0.5	<2	1.79	<0.5	18	39	117	3.95	10
G0558804		11.34	0.2	2.29	3	<10	60	<0.5	<2	2.26	<0.5	17	36	143	3.42	10
G0558805		9.56	<0.2	2.17	4	<10	30	<0.5	<2	2.37	<0.5	12	39	49	2.81	10
G0558806		10.85	<0.2	2.19	15	<10	40	<0.5	<2	2.45	<0.5	30	47	55	3.40	10
G0558807		10.40	<0.2	1.43	22	<10	90	<0.5	<2	1.96	<0.5	20	35	94	3.60	10
G0558808		3.37	0.2	0.04	<2	<10	20	<0.5	<2	20.2	<0.5	2	1	3	0.40	<10
G0558809		11.17	<0.2	1.91	2	<10	70	<0.5	<2	1.99	<0.5	13	23	68	2.64	10
G0558810		11.36	<0.2	2.38	5	<10	90	<0.5	<2	2.28	<0.5	16	30	77	3.39	10
G0558811		10.66	<0.2	2.29	4	<10	80	<0.5	<2	2.71	<0.5	16	20	92	3.43	10
G0558812		10.52	<0.2	1.82	17	<10	10	<0.5	<2	2.78	<0.5	18	115	54	3.37	10
G0558813		9.62	<0.2	1.60	8	<10	10	<0.5	<2	2.14	<0.5	16	32	34	4.26	<10
G0558814		5.19	<0.2	1.44	8	<10	10	<0.5	<2	1.92	<0.5	15	21	29	4.76	<10
G0558815		8.70	0.2	3.28	5	<10	20	<0.5	<2	3.00	<0.5	27	192	67	2.70	10
G0558816		13.34	<0.2	2.52	33	<10	20	<0.5	<2	2.68	<0.5	24	174	80	3.25	10
G0558817		10.77	<0.2	1.65	21	<10	50	<0.5	<2	1.50	<0.5	17	53	94	2.21	<10
G0558818		10.50	0.2	2.10	9	<10	60	<0.5	<2	2.07	<0.5	13	31	59	4.15	10
G0558819		8.07	<0.2	1.46	6	<10	30	<0.5	<2	2.10	<0.5	16	22	107	3.52	10
G0558820		9.45	0.2	1.92	16	<10	70	<0.5	<2	2.54	<0.5	16	21	118	3.70	10
G0558821		0.30	13.7	1.82	52	<10	10	<0.5	<2	3.30	4.1	35	30	>10000	7.41	10
G0558822		12.28	0.2	1.55	6	<10	10	<0.5	<2	2.28	<0.5	9	5	256	2.29	10
G0558823		12.61	0.2	2.21	9	<10	50	<0.5	<2	2.39	<0.5	10	38	130	2.46	10
G0558824		11.29	<0.2	2.54	8	<10	20	<0.5	<2	3.24	<0.5	6	15	34	1.31	10
G0558825		12.99	<0.2	2.36	15	<10	70	<0.5	<2	2.20	<0.5	14	15	71	3.30	10
G0558826		11.72	0.3	1.96	5	<10	<10	<0.5	<2	6.32	<0.5	5	19	75	11.60	10
G0558827		4.30	0.2	0.05	2	<10	10	<0.5	2	20.2	<0.5	2	1	4	0.42	<10
G0558828		10.85	0.3	1.58	5	<10	<10	<0.5	<2	10.9	<0.5	4	4	33	6.28	<10
G0558829		9.56	0.3	1.15	5	<10	<10	<0.5	<2	13.4	<0.5	3	16	40	6.28	<10
G0558830		12.75	0.3	3.27	13	<10	20	<0.5	<2	4.32	<0.5	17	23	175	4.08	10



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 15- AUG- 2010
Account: F

Project: Arn

CERTIFICATE OF ANALYSIS WH10106223

Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
G0558795		<1	0.14	10	0.54	513	2	0.14	35	930	4	0.02	<2	8	51	<20
G0558796		<1	0.10	<10	1.25	388	1	0.09	196	390	2	0.15	<2	12	76	<20
G0558797		<1	0.06	<10	0.80	384	2	0.04	257	500	2	0.15	<2	12	43	<20
G0558798		<1	0.09	<10	0.83	805	1	0.06	226	580	3	0.28	<2	21	52	<20
G0558799		<1	0.16	10	1.00	590	1	0.11	50	1490	<2	0.30	<2	9	79	<20
G0558800		<1	0.20	10	1.11	477	1	0.13	33	1650	2	0.72	<2	8	81	<20
G0558801		<1	0.14	<10	0.70	390	230	0.10	26	540	37	1.66	20	5	42	<20
G0558802		<1	0.24	10	1.00	398	1	0.12	23	1340	2	0.27	<2	6	79	<20
G0558803		<1	0.36	10	1.22	516	2	0.06	23	1590	<2	0.08	<2	8	37	<20
G0558804		<1	0.27	10	1.28	341	1	0.12	21	1420	<2	0.21	<2	6	82	<20
G0558805		<1	0.17	<10	1.04	324	1	0.14	24	920	2	0.13	<2	5	70	<20
G0558806		<1	0.16	10	0.98	450	1	0.18	43	1080	2	0.17	<2	8	84	<20
G0558807		<1	0.25	10	0.84	590	1	0.12	34	1630	2	0.11	<2	11	53	<20
G0558808		<1	0.02	<10	12.30	184	1	0.01	<1	240	5	<0.01	<2	<1	58	<20
G0558809		<1	0.26	10	1.03	341	1	0.17	16	1350	2	0.08	<2	6	83	<20
G0558810		<1	0.33	10	1.34	436	1	0.22	17	1380	<2	0.17	<2	7	87	<20
G0558811		<1	0.29	10	1.15	456	1	0.12	15	1290	2	0.17	<2	7	87	<20
G0558812		<1	0.11	10	1.34	606	1	0.07	67	1120	4	0.12	<2	8	71	<20
G0558813		<1	0.07	10	0.70	874	1	0.07	42	1140	3	0.08	<2	12	64	<20
G0558814		<1	0.07	10	0.58	1005	1	0.06	38	1150	3	0.09	<2	15	61	<20
G0558815		<1	0.10	<10	1.93	429	1	0.14	200	470	2	0.08	<2	7	208	<20
G0558816		<1	0.13	<10	1.96	573	1	0.11	153	680	4	0.07	<2	9	135	<20
G0558817		<1	0.29	<10	1.13	236	1	0.07	71	730	2	0.22	<2	3	84	<20
G0558818		<1	0.22	10	0.88	737	2	0.19	23	1070	3	0.05	2	11	92	<20
G0558819		<1	0.14	10	0.69	646	1	0.09	26	1080	2	0.07	<2	9	49	<20
G0558820		<1	0.21	10	1.06	454	1	0.07	18	950	4	0.08	<2	8	71	<20
G0558821		<1	0.31	<10	1.13	600	439	0.13	46	990	75	6.2	42	8	102	<20
G0558822		<1	0.09	10	0.71	299	2	0.06	5	1270	3	0.02	<2	5	55	<20
G0558823		<1	0.21	10	1.15	318	3	0.19	21	780	3	0.07	<2	5	95	<20
G0558824		<1	0.08	10	0.55	288	1	0.33	14	1030	4	0.02	<2	4	244	<20
G0558825		1	0.27	10	0.80	506	<1	0.25	14	1050	3	0.16	<2	6	132	<20
G0558826		<1	0.08	<10	0.31	1300	1	0.08	4	1110	3	0.04	<2	4	63	<20
G0558827		<1	0.02	<10	12.45	186	<1	0.01	<1	270	6	<0.01	<2	<1	54	<20
G0558828		<1	0.07	<10	0.30	1735	<1	0.05	1	1110	3	0.12	<2	5	52	<20
G0558829		<1	0.04	<10	0.23	1665	1	0.04	1	920	3	0.19	<2	2	52	<20
G0558830		<1	0.18	<10	0.90	720	2	0.20	12	1090	3	0.16	<2	8	154	<20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 15- AUG- 2010
 Account: F

Project: Arn

CERTIFICATE OF ANALYSIS WH10106223

Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Cu- OG46 Cu %	Au- AA24 Au ppm
		0.01	10	10	1	10	2	0.001	0.005
G0558795		0.13	<10	<10	76	<10	34		<0.005
G0558796		0.04	<10	<10	70	<10	24		<0.005
G0558797		0.01	<10	<10	46	<10	23		0.006
G0558798		0.01	<10	<10	106	<10	33		0.005
G0558799		0.12	<10	<10	106	<10	36		<0.005
G0558800		0.17	<10	<10	121	<10	35		0.008
G0558801		0.13	<10	<10	57	<10	125	1.285	0.947
G0558802		0.22	<10	<10	113	<10	34		<0.005
G0558803		0.23	<10	<10	131	<10	41		0.006
G0558804		0.25	<10	<10	133	<10	34		0.009
G0558805		0.18	<10	<10	101	<10	30		0.007
G0558806		0.16	<10	<10	97	<10	38		0.016
G0558807		0.12	<10	<10	102	<10	40		0.006
G0558808		<0.01	<10	<10	3	<10	12		<0.005
G0558809		0.20	<10	<10	94	<10	30		0.049
G0558810		0.25	<10	<10	124	<10	35		0.008
G0558811		0.25	<10	<10	134	<10	35		<0.005
G0558812		0.09	<10	<10	83	<10	40		<0.005
G0558813		0.03	<10	<10	93	<10	49		0.012
G0558814		0.03	<10	<10	103	<10	64		0.035
G0558815		0.05	<10	<10	43	<10	25		<0.005
G0558816		0.05	<10	<10	62	<10	33		0.008
G0558817		0.15	<10	<10	62	<10	22		0.006
G0558818		0.17	<10	<10	119	<10	44		<0.005
G0558819		0.10	<10	<10	99	<10	43		0.005
G0558820		0.18	<10	<10	142	<10	44		0.005
G0558821		0.05	<10	<10	90	<10	134	3.26	7.68
G0558822		0.11	<10	<10	93	<10	31		0.005
G0558823		0.20	<10	<10	84	<10	33		0.017
G0558824		0.11	<10	<10	49	<10	22		<0.005
G0558825		0.16	<10	<10	99	<10	34		0.006
G0558826		0.12	<10	<10	70	<10	33		0.007
G0558827		<0.01	<10	<10	3	<10	11		<0.005
G0558828		0.10	<10	<10	70	<10	33		0.005
G0558829		0.03	<10	<10	46	<10	19		0.005
G0558830		0.18	<10	<10	128	<10	44		0.011

APPENDIX IV

GEOLOGICAL AND GEOTECHNICAL LOGS

ARN PROPERTY

ZONE: _____

SECTION: _____

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		512280	6871874	1851	92.41

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	50	-45	compass				

TARGET: Zone Q soil anomalies and strong VTEM responses

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.70	0.70	OVB	Overburden
0.70	11.26	10.56	HRN	Hornfels?
11.26	60.77	49.51	BAS	Altered basalt with cross-cutting porphyritic andesitic and felsic dykes
60.77	72.40	11.63	BAS	Basalt
72.40	78.55	6.15	BAS	Altered basalt
78.55	80.00	1.45	AND	Andesitic dyke
80.00	82.00	2.00	BAS	Fault - basalt
82.00	87.00	5.00	BAS	Basalt
87.00	90.50	3.50	AND	Andesitic dyke
90.50	92.41	1.91	FEL	Felsic dyke
EOH				

HOLE: ARN-10-01

CLAIM: YC25989

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 0.70 (m) in / out

Drilling dates: _____

Geology logged by: Oliver Fu

SAMPLES
Numbers: <u>G0558651 to G0558685</u>
Total: <u>35</u>
Batch: <u>1</u>
Date Sent: _____
Certificate: <u>WH10091230</u>

COMMENTS

GEOLOGY LOG

HOLE: ARN-10-01

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	"Brown "	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	0.70	0.70				OVB																				No recovery	
0.70	11.26	10.56				HFL	GY to DK-GY	AN								w				t-w						Hornfels (HFL)? Dark grey to grey, aphanitic with anhedral to subhedral felsic (15%) and mafic (25-35%) phenocrysts (1-11mm). Crystals do not show a preferred orientation. Diffuse contact with felsic dyke.	
							WH to LT-GN																			Felsic dyke. Plagioclase-rich with 3% mafics. Weakly fractured.	
			9.23	9.84	0.61				DY																		
11.26	60.77	49.51				BAS	DK GY with BN blotches	AN					f	w-m	m-i	w				t		m-s	Po	w		Altered Basalt (BAS). Mottled brown alteration that appears mainly blotchy and brecciated in some areas. Chlorite alteration and weak oxidation are common along fractured surfaces. Chlorite-filled amygdules are scattered throughout. Bleaching envelopes form along small fractures. Sulphides are common along fractures.	
			46.17	47.48	1.31			PO	DY																	Deformed porphyritic dyke with angular to subrounded plagioclase crystals (1-3 mm).	
			29.00	30.45	1.45	AND	LT GY-GN	PO					f			w							Bo	w		Porphyritic andesite. Feldspar phenocrysts are 1-2 mm in size. Bornite occurs along fractures.	
			33.60	34.50	0.90				FLT																	Fault. Rubby section.	
			39.00	39.32	0.32	AND	LT GY-GN	PO					f													Porphyritic andesite.	
			40.43	40.58	0.15		GN-WH						f	s						w						Epidote-rich felsic dyke with altered brown patches.	
			48.04	48.77	0.73		WH-GN						m	m	f					f		m-s				Felsic porphyritic dyke. Plagioclase phenocrysts are 1-2 mm. Moderately magnetic. Mafic crystals are 1-10 mm and subangular. Pyrite is disseminated.	
			49.17	53.80	4.63			PO																		Chlorite-filled amygdules are common throughout and 1-6 mm in size. Irregular shapes. Sharp lower contact.	
			57.63	60.77	3.14								m	f		m				m		f					

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION				MINERALS						Photo	DETAILED DESCRIPTION			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	"Brown"	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other			Other		
																	Type	Intensity				Type			Intensity	Type	Intensity
60.77	78.55	17.78					DK GY	AN						f			m			w						Aphanitic basalt. Mafics are fine grained. White quartz veins are 1-3 mm and generally cut the BAS at 55° TCA. Bleaching typically occurs along fractures. Pyrite and chlorite are common along fractures.	
			64.13	74.00	9.87			PO					f		m-s	f			t-w		w					Blotchy brown brecciated alteration	
							DK GY	PO	DY																	Porphyritic andesitic dyke with deformed plagioclase phenocrysts. Phenocrysts are subangular to subrounded and 1-4 mm wide.	
			69.20	69.45	0.25		DK GY																				
			66.20	66.69	0.49		DK GY																			Mafic-rich felsic dyke.	
			71.75	72.40	0.65		DK GY	PO																		Porphyritic andesitic dyke.	
			72.40	78.55	6.15	BAS	DK GY						f			w			w							Altered basalt. Alteration envelopes are light grey and resemble weak stockwork. Brown mottled patches commonly occur alongside envelopes.	
78.55	80.00	1.45					DK GY		DY																		Slightly porphyritic andesitic dyke.
80.00	82.00	2.00				BAS							m	m		s										Fault. Most of the section is rubbly and broken up Highly oxidized and fractured. Cross-cutting carbonate veinlets are common and between 1-3 mm wide.	
82.00	87.00	5.00				BAS		AN					s	w	m-s	m			w		w					Altered basalt. Mottled brown alteration. Increase metasomatic alteration. Chlorite is abundant and quartz veinlets and stringers are common throughout.	
87.00	90.50	3.50							DY				m	w		m-s										Slightly porphyritic andesitic dyke with quartz veinlets and stringers.	
90.50 EOH	92.41	1.91							DY				m	w		s			t-w							Coarse grained mafic-rich felsic dyke. Hornblende and plagioclase phenocrysts are euhedral and subrounded. Alteration increases towards the end of the hole.	

SAMPLE LOG

HOLE: ARN-10-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Cu (ppm)	Comments
0.70	3.70	3.00	1.50	50	G0558651	1	0.01	<0.2	4	53.00	
3.70	6.70	3.00	3.00	100	G0558652	1	0.01	<0.2	6	55.00	
6.70	9.70	3.00	2.95	98	G0558653	1	<0.005	<0.2	<2	63.00	
9.70	12.70	3.00	2.98	99	G0558654	1	0.02	<0.2	3	167.00	
12.70	15.70	3.00	2.86	95	G0558655	1	0.03	<0.2	<2	122.00	
15.70	18.70	3.00	2.80	93	G0558656	1	0.01	<0.2	<2	101.00	
18.70	21.70	3.00	3.00	100	G0558657	1	0.02	0.30	<2	377.00	
-	-	-	-	-	G0558658	1	0.98	4.70	19	12300.00	Standard: CDN-CGS-21
21.70	24.70	3.00	3.00	100	G0558659	1	0.05	<0.2	<2	164.00	
24.70	27.70	3.00	3.00	100	G0558660	1	0.01	<0.2	3	53.00	
27.70	30.70	3.00	3.00	100	G0558661	1	0.03	<0.2	<2	49.00	
30.70	33.70	3.00	3.00	100	G0558662	1	<0.005	<0.2	<2	41.00	
33.70	36.70	3.00	3.00	100	G0558663	1	0.01	1.70	6	93.00	
-	-	-	-	-	G0558664	1	<0.005	<0.2	<2	2.00	Blank: B
36.70	39.70	3.00	3.00	100	G0558665	1	0.01	<0.2	<2	142.00	
39.70	42.70	3.00	3.00	100	G0558666	1	0.18	<0.2	3	131.00	
42.70	45.70	3.00	3.00	100	G0558667	1	0.01	<0.2	<2	173.00	
45.70	49.17	3.47	3.47	100	G0558668	1	0.01	<0.2	3	74.00	
49.17	52.17	3.00	2.94	98	G0558669	1	0.02	<0.2	2	142.00	
52.17	55.17	3.00	2.95	98	G0558670	1	0.01	<0.2	<2	76.00	
55.17	58.17	3.00	3.00	100	G0558671	1	0.02	<0.2	3	128.00	
55.17	58.17	3.00	3.00	100	G0558672	1	0.03	<0.2	<2	178.00	Duplicate
58.17	61.17	3.00	2.92	97	G0558673	1	0.01	<0.2	<2	92.00	
61.17	64.17	3.00	2.97	99	G0558674	1	<0.005	<0.2	<2	56.00	
-	-	-	-	-	G0558675	1	7.24	13.70	53	33100.00	Standard: CDN-CGS-20
64.17	67.17	3.00	3.00	100	G0558676	1	0.05	<0.2	4	225.00	
67.17	70.17	3.00	2.97	99	G0558677	1	0.01	<0.2	2	106.00	
70.17	73.17	3.00	2.98	99	G0558678	1	0.02	<0.2	3	152.00	
73.17	76.17	3.00	3.00	100	G0558679	1	0.01	<0.2	10	111.00	
-	-	-	-	-	G0558680	1	<0.005	<0.2	<2	2.00	Blank: B
76.17	79.17	3.00	2.80	93	G0558681	1	0.15	<0.2	27	129.00	
79.17	82.17	3.00	2.90	97	G0558682	1	0.35	0.20	7	284.00	
82.17	85.17	3.00	2.75	92	G0558683	1	0.02	<0.2	4	168.00	
85.17	88.17	3.00	2.45	82	G0558684	1	0.01	<0.2	14	91.00	
88.17	91.17	3.00	2.25	75	G0558685	1	0.16	<0.2	4	76.00	EOH @ 92.4 m

GEOTECHNICAL LOG

HOLE: ARN-10-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	
0.70	2.43	1.73	0.72	42	0	6	VS	MW	
2.43	5.48	3.05	3.01	99	1.20	39	VS	MW	
5.48	8.53	3.05	2.90	95	2.56	84	MS	MW	
8.53	11.58	3.05	3.00	98	2.55	84	MS	FR	
11.58	14.63	3.05	2.85	93	2.70	89	MS	FR	
14.63	17.67	3.04	2.70	89	0.91	30	MS	FR	
17.67	20.73	3.06	3.02	99	2.86	93	MS	FR	
20.73	23.80	3.07	3.01	98	2.36	77	S	FR	
23.80	26.80	3.00	3.03	101	2.90	97	VS	MW	
26.80	29.80	3.00	3.01	100	2.39	80	VS	FW	
29.80	32.90	3.10	3.05	98	2.20	71	S	MW	
32.90	35.40	2.50	3.08	123	1.20	48	S	FR	
35.40	39.00	3.60	3.80	106	3.04	84	VS	FR	
39.00	42.10	3.10	3.02	97	3.02	97	VS	FR	
42.10	45.10	3.00	3.10	103	3.10	103	VS	FR	
45.10	48.20	3.10	3.02	97	3.02	97	S	FR	
48.20	51.20	3.00	2.96	99	2.62	87	S	MW	
51.20	54.30	3.10	2.93	95	1.80	58	MS	MW	
54.30	57.30	3.00	3.03	101	2.98	99	MS	FR	
57.30	60.40	3.10	3.04	98	2.43	78	MS	MW	
60.40	63.40	3.00	2.90	97	1.60	53	VS	FR	
63.40	66.40	3.00	3.02	101	0.95	32	S	SW	
66.40	69.50	3.10	2.97	96	1.74	56	S	FR	
69.50	72.50	3.00	3.00	100	0.93	31	S	FR	
72.50	75.60	3.10	3.02	97	1.52	49	VS	FR	
75.60	78.60	3.00	2.98	99	1.88	63	S	FR	
78.60	81.70	3.10	2.79	90	1.14	37	MS	MW	
81.70	84.70	3.00	3.01	100	1.33	44	MS	FR	
84.70	87.80	3.10	2.27	73	0.66	21	MS	FR	
87.80	90.80	3.00	2.94	98	0.91	30	MS	SW	
90.80	92.40	1.60	0.98	61	0.00	0	MS	MW	
EOH									

GEOTECHNICAL LOG

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: ARN-10-01

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			N/A	
2.00			N/A	
3.00			N/A	
4.00			0.71	
5.00			0.59	
6.00			0.69	
7.00			0.67	
8.00			0.63	
9.00			0.22	
10.00			2.21	
11.00			22.90	
12.00			72.00	
13.00			20.80	
14.00			156	
15.00			0.86	
16.00			19.10	
17.00			8.28	
18.00			59.40	
19.00			5.98	
20.00			22.70	
21.00			2.15	
22.00			13.10	
23.00			15.50	
24.00			1.37	
25.00			1.12	
26.00			0.73	
27.00			0.43	
28.00			0.69	
29.00			1.23	
30.00			0.38	
31.00			36.50	
32.00			0.30	
33.00			0.41	
34.00			0.53	
35.00			1.51	
36.00			38.80	
37.00			148	
38.00			181	
39.00			1.84	
40.00			3.64	
41.00			82.9	
42.00			7.21	
43.00			41.80	
44.00			1.96	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			35.5	
46.00			11.7	
47.00			0.90	
48.00			13.5	
49.00			19.9	
50.00			6.85	
51.00			5.74	
52.00			18.40	
53.00			19.20	
54.00			6.64	
55.00			15.30	
56.00			7.95	
57.00			1.33	
58.00			107	
59.00			6.49	
60.00			52.80	
61.00			2.87	
62.00			4.36	
63.00			2.72	
64.00			2.72	
65.00			0.64	
66.00			0.84	
67.00			3.52	
68.00			1.96	
69.00			25.20	
70.00			1.02	
71.00			23.90	
72.00			1.35	
73.00			1.00	
74.00			3.62	
75.00			2.05	
76.00			8.87	
77.00			1.47	
78.00			1.25	
79.00			0.59	
80.00			0.55	
81.00			0.41	
82.00			11.90	
83.00			0.22	
84.00			0.77	
85.00			2.21	
86.00			25.20	
87.00			0.49	
88.00			0.50	
89.00			0.48	
90.00			6.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			2.13	
92.00			1.02	
EOH				

BOX LOG

HOLE: ARN-10-01

BOX	FROM (m)	TO (m)
1	0.70	7.03
2	7.03	12.50
3	12.50	17.95
4	17.95	23.55
5	23.55	28.60
6	28.60	34.50
7	34.50	38.50
8	38.50	43.00
9	43.00	48.20
10	48.20	53.60
11	53.60	58.90
12	58.90	63.60
13	63.60	68.90
14	68.90	73.25
15	73.25	78.60
16	78.60	83.35
17	83.35	88.05
18	88.05	92.40

DENSITY LOG

HOLE: ARN-10-01

[illegible]

ARN PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		512172	6871996	1887	127.41

ZONE: _____

SECTION: _____

HOLE: ARN-10-02

CLAIM: YC25989

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 2.58 (m) in / out

Drilling dates: _____

Geology logged by: Oliver Fu

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	50	-45	compass				

TARGET: Zone Q soil anomalies and strong VTEM responses

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.58	2.58	OVb	Overburden
2.58	5.45	2.87	BAS	Basalt
5.45	6.23	0.78	LST	Limestone
6.23	6.53	0.3	BAS	Basalt
6.53	9.13	2.6	LST	Limestone
9.13	13.27	4.14	BAS	Basalt
13.27	15.75	2.48	LST	Limestone
15.75	22.55	6.8	BAS	Basalt
22.55	22.81	0.26	SKN	Skarn zone with bornite, pyrrhotite, magnetite, pyrite and chalcocopyrite
22.81	23.33	0.52	LST	Limestone
23.33	27.05	3.72	BAS	Basalt
27.05	30.32	3.27	LST	Limestone
30.32	33.29	2.97	BAS	Basalt
33.27	33.49	0.22	SKN	Skarn zone with marble. Garnet-rich along fractures. Intense pyrite, sub-massive
33.49	35.00	1.51	BAS	Basalt
46.50	127.41	80.91	BAS	Altered basalt (with cross-cutting dykes)
64.62	65.80	1.18	DY	Chloritized dyke
74.42	74.92	0.5	DY	Chloritized dyke
81.09	81.40	0.31	DY	Chloritized dyke
90.15	91.00	0.85	DY	Chloritized dyke
96.48	96.92	0.44	DY	Chloritized dyke
97.32	97.90	0.58	DY	Diorite dyke
98.48	99.38	0.9	DY	Diorite dyke
106.83	107.04	0.21	DY	Chloritized dyke
113.50	115.40	1.9	DY	Dyke (? - andesitic?)
115.70	116.03	0.33	DY	Chloritized dyke
117.70	118.15	0.45	DY	Dyke?
118.90	119.20	0.3	DY	Andesitic dyke
121.40	122.80	1.4	DY	Chloritized dyke
127.41				
EQH				

SAMPLES	
Numbers:	G0558686 to G0558733
Total:	48
Batch:	2, 3
Date Sent:	
Certificate:	WH10095936, WH10100509

COMMENTS	

GEOLOGY LOG

HOLE ARN-10-02

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	Brown	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	1.93	1.93				OVB																				No recovery.	
1.93	2.58	0.65				OVB																				Overburden.	
2.58	30.32	27.74				LST BAS																				Interbedded dirty limestone (LST) and amygdaloidal basalt (BAS) with few skarniferous zones.	
																										Basalt. Chlorite crystals are 1-4 mm and mafic are fibrous, rounded to subrounded and soft. Sparse micro-fractures have a quartz center with biotite along its outer edges. Six mm pyrite-rich vein at the end of the interval. Pyrite crystals are euhedral to subhedral and 1-2 mm wide. Sharp contacts.	
			2.58	5.45	2.87	BAS							w-m			m-s										Dirty limestone. Grey with dark specks and crystalline. Few areas have undergone minor bleaching. Nine cm pyrite-rich section occurs at the en of the interval and located in a highly oxidized patch.	
			5.45	6.23	0.78	LST								t-w		w-m	K-ic	w								Basalt. Sharp lower contact (CTC) at 35°. Hairline fractures are infilled with epidote or limonite.	
			6.23	6.53	0.30	BAS			CTC	35			m	m		m	car	m								Limestone. Sharp lower contact (CTC) at 40° with few hairline fractures.	
			6.53	9.13	2.60	LST			CTC	40						w										Basalt. Fractures have undergone minor bleaching and potassic flooding(?). Cross-cutting light grey-green porphyritic, andesitic dykes are common and between 5 to 40 cm wide.	
			9.13	13.27	4.14	BAS											K-ic	s								Limestone. Lower contact at 10°	
			13.27	15.75	2.48	LST			CTC	10																	
			15.75	22.55	6.80	BAS		AM					w-f	w-f		w-f			f-m							Amygdaloidal basalt. Amygdules are 1-3 mm wide, subrounded and filled with calcite or chlorite. Euhedral pyrite crystals concentrate along amygdule borders. These crystals are 1-2 mm in size. Minor bleaching occurs throughout the section.	
			22.55	22.81	0.26	SKN													s		s	Bo	f			Skarn. Sulphides (bornite, pyrrhotite, chalcopyrite and pyrite) are fine to medium grained and occur adjacent to each other and along fractured surfaces.	
			22.81	23.33	0.52	LST										t	K-ic	w-f								Limestone with dark specks.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tra)	Density (frequency/m)	Chlorite	Epidote	Brown	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other			
																	Type	Intensity				Type	Intensity				
			23.33	26.82	3.49	BAS							m													Altered basalt. Upper and lower contacts have undergone potassic flooding. Pyrite occurs at the upper contact. Bleached zones are lighter and resemble weak stockwork. Zones of intense bleaching also show an increase in chlorite alteration.	
			26.82	27.05	0.23	BAS													t							Pyrite vein at upper contact. Sharp lower contact.	
			27.05	30.32	3.27	LST			CTC	30						m										Limestone. Oxidized fractures. Lower contact at 30°	
30.32	33.29	2.97				BAS											K-ic	f	w			Po	t			Basalt. Minor potassic flooding at upper contact	
			31.63	31.73	0.10	SKN								m			car	w								Skarn with pyrite, pyrrhotite and minor potassic, carbonate and epidote alteration. Sulphides are interstitial and concentrate is a very localized zone.	
			31.95	32.08	0.13	SKN								m			car	w								Skarn. Garnet-rich section with interstitial carbonate veinlets. Garnet crystals are 1-4 mm wide. Fractures have undergone epidote and minor carbonate alteration.	
33.29	33.49	0.20				SKN													i	t						Skarn with marble. Garnet crystals are euhedral, 1-2 mm, and concentrate along fractures. Pyrite is submassive with crystals ranging from 1 to 5 mm.	
33.49	35.00	1.51				BAS							s						m	m						Altered basalt with garnets. Pyrite and chalcopyrite occur interstitially.	
35.00	127.41	92.41				BAS							s	m	w-s	t			t-m		t-m	Po	t-w			Basalt with varying degrees of chlorite alteration and bleaching. Alteration intensity increases with depth. Mottled brown alteration appears blotchy and slightly brecciated. Amygdules have a chlorite halo surrounding them. Pyrite and pyrrhotite are mainly interstitial and increase in concentration in epidote altered zones. Moderate epidote alteration occurs along fractures.	
			35.96	36.67	0.71	BAS							m	w		t	K-ic	m								Potassic alteration occurring along fractures in weakly chloritized zones.	
			38.00	40.55	2.55	BAS							m		w	w						Po	f			Pyrrhotite occurs interstitially.	
			46.50	127.41	80.91	BAS							m-s	m	m-i	w	car	t-w	t	w		Po	w			Altered basalt with cross-cutting dykes. Strong mottle brown (biotite alteration?) and chlorite alteration. Mottled brown section is patchy and brecciated. Fractures are weakly oxidized and carbonate altered. Pyrrhotite occurs throughout interstitially or as disseminations. Pyrite and chalcopyrite occur as disseminations.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	Brown	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			64.62	65.80	1.18				DY				i			w										Chloritized dyke with covalite along fractured surfaces.	
			67.45	67.83	0.38				DY				i													Chloritized porphyritic dyke with 1-2 mm plagioclase phenocrysts.	
			74.12	74.92	0.80				DY				s													Chloritized dyke with quartz infilled amygdulcs(?) in an aphanitic matrix.	
			81.09	81.40	0.31				DY	70			f	f					f-w			Po	w				Green, fine grained, moderately chlorite altered dyke with potassic altered fractures. Pyrrhotite is patchy along fractures and also occurs as disseminations.
			90.15	91.00	0.85				DY	50			s	m								Po	w-f				Aphanitic chlorite and epidote altered dyke with rounded to subangular mafic (hornblende) phenocrysts (1-5 mm).
			96.48	96.92	0.44				DY				s			w		t								Aphanitic chloritized dyke with 1-2 mm quartz veins and minor sulfides.	
			97.32	97.90	0.58				DY	80			s					t				Po	w				Diorite dyke with black rounded to subrounded mafics (1-15 mm). Pyrite occurs along fractures.
			98.49	99.38	0.89								s					t				Po	w				
			106.83	107.04	0.21				DY				s														Chloritized dyke with quartz infilled amygdulcs(?) in an aphanitic matrix.
			113.50	115.40	1.90				DY				m			w		w-f									Andesitic(?) dyke. Feldspar, mafic and quartz crystals are fine grained. Unit has undergone minor chlorite alteration. Pyrite is disseminated. Hornblende occurs as 3-4 mm splintery, elongated crystals. Quartz veins are 1-2 mm wide and show no preferred orientation.
			115.70	116.03	0.33				DY				w	w													Light green, chloritized dyke with oxidized hairline fractures.
			117.70	118.15	0.45				DY				s			t-w		t-w									Dyke(?) with large angular 'clasts' (?) (0.5-6 cm) that have undergone moderate chloritization. Matrix is fine grained and green. 'Clasts' show no preferred orientation. Pyrite is disseminated.
			118.90	119.20	0.30				DY	85			t-w			w											Light to dark grey, weakly chlorite altered andesitic dyke.
			121.40	122.80	1.40				DY				m														Chloritized dyke with few 1 mm quartz veins.
			123.95	124.36	0.41				SH	20						s	sil	m									Sheared zone. Moderately silicified and strongly oxidized.
EOH																											

GEOTECHNICAL LOG

HOLE: ARN-10-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering		Comments
0.00	2.43	2.43	0.40	16	0	0	W	SW		
2.43	5.48	3.05	0.86	28	1.00	33	MS	SW		
5.48	8.53	3.05	2.90	95	2.71	89	MS	SW		
8.53	11.58	3.05	3.02	99	2.96	97	S	SW		
11.58	14.63	3.05	2.83	93	2.50	82	S	FR		
14.63	17.67	3.04	3.04	100	3.00	99	VS	FR		
17.67	20.72	3.05	3.02	99	2.96	97	ES	FR		
20.72	23.77	3.05	2.96	97	2.80	92	S	FR		
23.77	26.82	3.05	3.06	100	3.06	100	S	FR		
26.82	29.87	3.05	3.04	100	2.95	97	S	FR		
29.87	32.91	3.04	2.90	95	2.80	92	S	FR		
32.91	35.96	3.05	2.85	93	2.85	93	S	FR		
35.96	39.01	3.05	3.05	100	3.00	98	VS	FR		
39.01	42.06	3.05	2.85	93	1.95	64	VS	MW		
42.06	45.11	3.05	2.95	97	2.95	97	VS	FR		
45.11	48.20	3.09	3.04	98	2.80	91	VS	FR		
48.20	51.20	3.00	3.03	101	2.62	87	VS	SW		
51.20	54.30	3.10	3.00	97	2.31	75	VS	FR		
54.30	57.30	3.00	3.03	101	2.48	83	S	FR		
57.30	60.40	3.10	3.00	97	2.27	73	VS	FR		
60.40	63.40	3.00	3.03	101	2.75	92	ES	FR		
63.40	66.40	3.00	3.01	100	2.27	76	VS	FR		
66.40	69.50	3.10	2.95	95	2.12	68	ES	SW		
69.50	72.50	3.00	3.02	101	2.82	94	VS	FR		
72.50	75.60	3.10	3.08	99	2.73	88	S	SW		
75.60	78.63	3.03	3.03	100	2.70	89	S	FR		
78.63	81.70	3.07	3.02	98	2.64	86	VS	FR		
81.70	84.70	3.00	3.03	101	2.89	96	VS	FR		
84.70	87.70	3.00	3.02	101	2.96	99	VS	FR		
87.70	90.83	3.13	3.10	99	2.93	94	VS	SW		
90.83	93.87	3.04	2.89	95	2.32	76	VS	FR		
93.87	96.92	3.05	3.04	100	1.99	65	S	FR		
96.92	99.97	3.05	3.05	100	2.59	85	MS	FR		
99.97	103.02	3.05	2.94	96	2.81	92	MS	FR		
103.02	106.07	3.05	3.06	100	2.95	97	MS	FR		
106.07	109.12	3.05	3.06	100	2.48	81	MS	MW		
109.12	112.12	3.00	3.06	102	2.54	85	MS	FR		
112.12	115.21	3.09	2.90	94	2.64	85	MS	SW		
115.21	118.26	3.05	2.99	98	2.38	78	MS	SW		
118.26	121.31	3.05	3.07	101	2.59	85	MS	SW		
121.31	124.36	3.05	2.76	90	2.09	69	MS	SW		
124.36	127.41	3.05	3.09	101	2.95	97	MS	FR		

SAMPLE LOG

HOLE: ARN-10-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
2.53	5.53	3.00	0.85	28	G0558686	1	0.02	0.30	18	88.00	
5.53	8.53	3.00	2.94	98	G0558687	2	0.01	0.20	36	78.00	
8.53	11.53	3.00	3.00	100	G0558688	2	0.01	<0.2	20	6.00	
11.53	14.53	3.00	2.84	95	G0558689	2	0.08	<0.2	14	13.00	
14.53	17.53	3.00	2.99	100	G0558690	2	<0.005	<0.2	13	32.00	
17.53	20.53	3.00	3.00	100	G0558691	2	<0.005	<0.2	<2	30.00	
20.53	23.53	3.00	2.96	99	G0558692	2	0.01	0.20	9	525.00	
-	-	-	-	-	G0558693	2	<0.005	0.20	4	<1	Blank: B
23.53	26.53	3.00	3.00	100	G0558694	2	<0.005	<0.2	21	74.00	
26.53	29.53	3.00	3.00	100	G0558695	2	<0.005	<0.2	25	12.00	
29.53	32.53	3.00	2.93	98	G0558696	2	0.01	<0.2	14	133.00	
32.53	35.53	3.00	2.81	94	G0558697	2	0.01	0.30	13	329.00	
35.53	38.53	3.00	3.00	100	G0558698	2	0.01	<0.2	16	199.00	
-	-	-	-	-	G0558699	2	7.75	13.90	56	33200.00	Standard: CDN-CGS-20
38.53	41.53	3.00	2.87	96	G0558700	2	0.02	0.20	33	423.00	
41.53	44.53	3.00	2.94	98	G0558701	2	0.01	<0.2	11	112.00	
44.53	47.53	3.00	2.95	98	G0558702	2	0.01	<0.2	2	165.00	
47.53	50.53	3.00	3.00	100	G0558703	2	0.02	<0.2	3	179.00	
50.53	53.53	3.00	3.00	100	G0558704	2	0.01	<0.2	<2	152.00	
50.53	53.53	3.00	3.00	100	G0558705	2	0.01	<0.2	3	162.00	Duplicate
53.53	56.53	3.00	3.00	100	G0558706	2	0.01	<0.2	<2	160.00	
56.53	59.53	3.00	3.00	100	G0558707	2	0.01	0.20	10	157.00	
59.53	62.53	3.00	3.00	100	G0558708	2	0.27	<0.2	13	247.00	
-	-	-	-	-	G0558709	2	<0.005	0.20	5	<1	Blank: B
62.53	65.53	3.00	3.00	100	G0558710	2	0.04	<0.2	12	235.00	
65.53	68.53	3.00	2.92	97	G0558711	2	0.01	<0.2	10	172.00	
68.53	71.53	3.00	3.00	100	G0558712	2	0.03	<0.2	12	113.00	
71.53	74.53	3.00	3.00	100	G0558713	2	0.01	<0.2	7	66.00	
74.53	77.53	3.00	3.00	100	G0558714	2	0.03	<0.2	7	145.00	
77.53	80.53	3.00	3.00	100	G0558715	2	0.01	<0.2	12	241.00	
-	-	-	-	-	G0558716	2	0.94	4.60	20	12950.00	Standard: CDN-CGS-21
80.53	83.53	3.00	3.00	100	G0558717	2	0.03	<0.2	12	355.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
83.53	86.53	3.00	3.00	100	G0558718	2	0.01	<0.2	40	164.00	
86.53	89.53	3.00	3.00	100	G0558719	2	0.01	<0.2	37	277.00	
89.53	92.53	3.00	2.89	96	G0558720	2	0.01	<0.2	20	225.00	
92.53	95.53	3.00	2.93	98	G0558721	2	0.01	<0.2	5	275.00	
95.53	98.53	3.00	3.00	100	G0558722	2	0.01	<0.2	18	199.00	
98.53	101.53	3.00	2.95	98	G0558723	3	0.01	<0.2	23	107.00	
101.53	104.53	3.00	3.00	100	G0558724	3	0.01	<0.2	<2	201.00	
104.53	107.53	3.00	3.00	100	G0558725	3	0.09	<0.2	2	52.00	
107.53	110.53	3.00	3.00	100	G0558726	3	0.01	<0.2	2	52.00	
110.53	113.53	3.00	2.94	98	G0558727	3	0.04	<0.2	<2	144.00	
113.53	116.53	3.00	2.92	97	G0558728	3	0.04	<0.2	8	68.00	
-	-	-	-	-	G0558729	3	8.03	14.10	53	35700.00	Standard: CDN-CGS-20
116.53	119.53	3.00	2.96	99	G0558730	3	0.04	<0.2	3	78.00	
119.53	122.13	2.60	2.49	96	G0558731	3	0.03	<0.2	8	55.00	
122.13	124.73	2.60	2.50	96	G0558732	3	0.03	<0.2	8	80.00	
124.73	127.41	2.68	3.00	112	G0558733	3	0.04	<0.2	7	111.00	EOH @ 127.41 m

BOX LOG

HOLE: ARN-10-02

BOX	FROM (m)	TO (m)
1	1.93	8.33
2	8.33	13.60
3	13.60	19.18
4	19.18	24.60
5	24.60	30.02
6	30.02	35.17
7	35.17	41.00
8	41.00	46.31
9	46.31	51.80
10	51.80	57.30
11	57.30	63.00
12	63.00	68.86
13	68.86	74.54
14	74.54	80.11
15	80.11	85.82
16	85.82	91.36
17	91.36	97.36
18	97.36	103.02
19	103.02	108.60
20	108.60	114.22
21	114.22	119.93
22	119.93	125.84
23	125.84	127.41

MAGNETIC SUSCEPTIBILITY LOG

HOLE: ARN-10-02

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			N/A	
2.00			N/A	
3.00			0.14	
4.00			N/A	
5.00			0.45	
6.00			1.98	
7.00			0.86	
8.00			0.24	
9.00			0.26	
10.00			0.30	
11.00			0.65	
12.00			0.34	
13.00			1.10	
14.00			0.20	
15.00			0.73	
16.00			2.68	
17.00			0.40	
18.00			1.37	
19.00			0.67	
20.00			7.62	
21.00			7.42	
22.00			0.59	
23.00			0.26	
24.00			0.65	
25.00			0.26	
26.00			0.28	
27.00			0.12	
28.00			0.16	
29.00			0.18	
30.00			0.32	
31.00			0.63	
32.00			2.07	
33.00			0.92	
34.00			2.68	
35.00			0.65	
36.00			1.94	
37.00			0.51	
38.00			0.43	
39.00			2.74	
40.00			0.94	
41.00			0.43	
42.00			0.88	
43.00			5.71	
44.00			4.96	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			52.80	
46.00			90.70	
47.00			66.00	
48.00			14.60	
49.00			25.70	
50.00			53.60	
51.00			60.30	
52.00			3.23	
53.00			18.80	
54.00			78.30	
55.00			19.70	
56.00			8.40	
57.00			27.90	
58.00			6.29	
59.00			0.65	
60.00			4.59	
61.00			4.42	
62.00			2.91	
63.00			4.10	
64.00			8.24	
65.00			0.45	
66.00			2.02	
67.00			0.55	
68.00			0.75	
69.00			1.47	
70.00			0.98	
71.00			1.00	
72.00			22.50	
73.00			2.68	
74.00			0.94	
75.00			1.23	
76.00			1.00	
77.00			0.86	
78.00			5.51	
79.00			1.39	
80.00			7.03	
81.00			1.92	
82.00			5.65	
83.00			2.89	
84.00			3.45	
85.00			6.28	
86.00			5.12	
87.00			1.92	
88.00			2.39	
89.00			4.32	
90.00			7.97	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			2.21	
92.00			7.40	
93.00			4.89	
94.00			8.52	
95.00			0.61	
96.00			0.67	
97.00			0.63	
98.00			10.70	
99.00			3.01	
100.00			0.73	
101.00			0.73	
102.00			2.82	
103.00			0.22	
104.00			4.96	
105.00			1.10	
106.00			4.05	
107.00			0.30	
108.00			13.50	
109.00			14.50	
110.00			37.30	
111.00			14.60	
112.00			0.59	
113.00			0.41	
114.00			1.31	
115.00			0.32	
116.00			0.28	
117.00			1.49	
118.00			4.36	
119.00			7.19	
120.00			54.50	
121.00			9.18	
122.00			1.35	
123.00			6.74	
124.00			0.49	
125.00			0.88	
126.00			9.18	
127.00			43.40	

ARN PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		512247	6872060	1962	157.58

ZONE: _____

SECTION: _____

HOLE: ARN-10-03

CLAIM: YC25989

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 2.13 (m) in / out

Drilling dates: _____

Geology logged by: Oliver Fu

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230	-45	compass				

TARGET: Oriented to scissor hole ARN-10-02

[illegible]

SAMPLES
Numbers: G0558734 to G0558794
Total: <u>61</u>
Batch: <u>3, 4</u>
Date Sent: _____
Certificate: <u>WH10100509, WH10103514</u>

COMMENTS	

GEOLOGY LOG

HOLE ARN-10-03

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS								Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other					
																Type	Intensity				Type	Intensity	Type	Intensity				
0.00	2.13	2.13				OVB																				Overburden. No recovery.		
2.13	3.90	1.77				AND								s		w		w								Light green porphyritic andesite with 1-2 mm feldspar and mafic phenocrysts. Feldspar phenocrysts are white and lathe-shaped. Interval has undergone epidotization.		
3.90	101.00	97.10				AND							w		w		w									Andesite with large clasts and few felsic-rich sections with cross-cutting dykes. Matrix is fine grained with coarse grained mafic and 1-2 mm carbonate veinlets. Pyrite is disseminated and interstitial. Clasts are creamy to dark green. Veinlets are 1-2 mm and weakly oxidized.		
			40.10	40.45	0.35				VN	40			m													Green, aphanitic chlorite altered vein with weakly disseminated pyrite and few carbonate veinlets (1 mm).		
			49.13	51.45	2.32				VN	35			m													Slightly porphyritic and chlorite altered andesite.		
			89.00	99.00	10.00				VN				m					w			Po	w				Few chlorite veins with pyrite and pyrrhotite at their center.		
			101.10	101.35	0.25	SKN									m-s		w	w								Weakly skarnified section. Moderately oxidized with evidence of metasomatism. Minor pyrite and chalcopyrite occur in veinlets. Black, soft speckled mineral occurs interstitially and along fractures (non-magnetic).		
109.00	157.58	48.58				AND							m-s	w-m	w		w	w								Altered andesite. Alteration increases with depth. Matrix is aphanitic in most areas and locally coarse grained with pink lathe-shaped clasts. Chalcopyrite and pyrite occur adjacent to each other in strongly altered sections.		
			117.66	117.96	0.30				DY						w		f-w			Po	w					Felsic dyke with minor disseminated pyrite and pyrrhotite. Few oxidized hairline fractures.		
			122.23	123.53	1.30	AND			CTC	25							t-w	t-w		Po	w					Bleached andesite with coarse grained mafics and disseminated chalcopyrite, pyrite and pyrrhotite. Upper contact at 60°, and lower contact at 25°.		
			128.74	129.07	0.33	AND			CTC	25																Porphyritic andesite with 1-2 mm feldspar phenocrysts and interstitial pyrite and pyrrhotite. Upper and lower contacts at 25°.		
			133.65	144.23	10.58				VN	50						car	w	t		Po	t					Altered andesite with pyrite and pyrrhotite veins (1-3 mm). Few 1-4 mm carbonate stringers.		
			152.12	152.22	0.10				VN	50																Chlorite altered vein.		
			152.32	152.42	0.10				VN	20																Chlorite altered vein.		
			152.90	153.00	0.10				VN	20																Chlorite altered vein.		
			153.37	153.74	0.37										s											Strongly oxidized section with coarse grained mafic and interstitial carbonate alteration. No visible sulphides. Intense limonitic staining.		
			154.34	154.44	0.10																					Bleached chlorite altered vein with disseminated pyrite and pyrrhotite.		
EOH																												

SAMPLE LOG

HOLE: ARN-10-03

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
2.13	5.13	3.00	2.90	97	G0558734	3	0.03	0.20	3	185.00	
5.13	8.13	3.00	3.00	100	G0558735	3	0.04	<0.2	2	123.00	
8.13	11.13	3.00	2.98	99	G0558736	3	0.02	<0.2	4	146.00	
11.13	14.13	3.00	3.00	100	G0558737	3	0.03	<0.2	2	184.00	
-	-	-	-	-	G0558738	3	<0.005	<0.2	2	3.00	Blank: B
14.13	17.13	3.00	3.00	100	G0558739	3	0.03	<0.2	2	142.00	
17.13	20.13	3.00	3.00	100	G0558740	3	0.03	<0.2	<2	187.00	
20.13	23.13	3.00	3.00	100	G0558741	3	0.03	<0.2	3	205.00	
23.13	26.13	3.00	3.00	100	G0558742	3	0.04	<0.2	2	326.00	
26.13	29.13	3.00	3.00	100	G0558743	3	0.04	<0.2	<2	227.00	
29.13	32.13	3.00	3.00	100	G0558744	3	0.02	<0.2	2	145.00	
29.13	32.13	3.00	3.00	100	G0558745	3	0.02	<0.2	<2	162.00	Duplicate
32.13	35.13	3.00	2.98	99	G0558746	3	0.02	<0.2	<2	166.00	
35.13	38.13	3.00	2.71	90	G0558747	3	0.03	<0.2	2	173.00	
-	-	-	-	-	G0558748	3	1.06	4.60	23	13100.00	Standard: CDN-CGS-21
38.13	41.13	3.00	3.00	100	G0558749	3	0.08	<0.2	6	221.00	
41.13	44.13	3.00	3.00	100	G0558750	3	0.04	<0.2	<2	155.00	
44.13	47.13	3.00	3.00	100	G0558751	3	0.03	<0.2	3	125.00	
47.13	50.13	3.00	3.00	100	G0558752	3	0.17	<0.2	17	252.00	
-	-	-	-	-	G0558753	3	<0.005	<0.2	<2	5.00	Blank: B
50.13	53.13	3.00	3.00	100	G0558754	3	0.74	<0.2	13	393.00	
53.13	56.13	3.00	3.00	100	G0558755	3	0.05	<0.2	5	173.00	
56.13	59.13	3.00	3.00	100	G0558756	3	0.07	<0.2	<2	159.00	
59.13	62.13	3.00	3.00	100	G0558757	3	0.08	<0.2	19	264.00	
62.13	65.13	3.00	3.00	100	G0558758	3	0.06	<0.2	3	140.00	
65.13	68.13	3.00	3.00	100	G0558759	4	0.05	0.50	23	307.00	
68.13	71.13	3.00	3.00	100	G0558760	4	0.03	<0.2	7	158.00	
71.13	74.13	3.00	3.00	100	G0558761	4	0.03	<0.2	5	220.00	
74.13	77.13	3.00	3.00	100	G0558762	4	0.04	0.20	4	227.00	
77.13	80.13	3.00	3.00	100	G0558763	4	0.09	0.20	2	228.00	
-	-	-	-	-	G0558764	4	7.88	14.00	54	33600.00	Standard: CDN-CGS-20
80.13	83.13	3.00	3.00	100	G0558765	4	0.04	<0.2	3	206.00	
83.13	86.13	3.00	3.00	100	G0558766	4	0.05	<0.2	4	198.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
86.13	89.13	3.00	3.00	100	G0558767	4	0.03	0.20	6	192.00	
89.13	92.13	3.00	3.00	100	G0558768	4	0.05	<0.2	<2	169.00	
92.13	95.13	3.00	3.00	100	G0558769	4	0.05	<0.2	<2	161.00	Duplicate
92.13	95.13	3.00	3.00	100	G0558770	4	0.05	0.30	2	203.00	
95.13	98.13	3.00	3.00	100	G0558771	4	0.11	<0.2	<2	155.00	
98.13	101.06	2.93	2.93	100	G0558772	4	0.07	0.20	<2	202.00	
-	-	-	-	-	G0558773	4	<0.005	0.30	<2	3.00	Blank: B
101.06	104.13	3.07	3.07	100	G0558774	4	0.04	0.30	4	179.00	
104.13	107.13	3.00	3.00	100	G0558775	4	0.14	0.40	<2	313.00	
107.13	110.13	3.00	3.00	100	G0558776	4	0.37	0.60	5	717.00	
110.13	113.13	3.00	3.00	100	G0558777	4	0.04	0.20	5	147.00	
113.13	116.13	3.00	2.94	98	G0558778	4	0.04	0.20	<2	107.00	
116.13	119.13	3.00	2.93	98	G0558779	4	0.46	<0.2	5	211.00	
119.13	122.13	3.00	3.00	100	G0558780	4	0.19	0.30	6	356.00	
122.13	125.13	3.00	3.00	100	G0558781	4	0.15	0.30	5	398.00	
-	-	-	-	-	G0558782	4	0.91	4.70	22	13100.00	Standard: CDN-CGS-21
125.13	128.13	3.00	3.00	100	G0558783	4	0.04	<0.2	<2	233.00	
128.13	131.13	3.00	3.00	100	G0558784	4	0.04	<0.2	6	142.00	
131.13	134.13	3.00	3.00	100	G0558785	4	0.18	0.40	<2	429.00	
134.13	137.13	3.00	3.00	100	G0558786	4	0.20	0.40	4	454.00	
137.13	140.13	3.00	3.00	100	G0558787	4	0.11	0.20	4	264.00	
140.13	143.13	3.00	3.00	100	G0558788	4	0.07	0.20	2	185.00	
-	-	-	-	-	G0558789	4	<0.005	<0.2	<2	5.00	Blank: B
143.13	146.13	3.00	3.00	100	G0558790	4	0.11	0.20	3	373.00	
146.13	149.13	3.00	3.00	100	G0558791	4	0.03	0.20	5	154.00	
149.13	152.13	3.00	3.00	100	G0558792	4	0.05	<0.2	6	292.00	
152.13	155.13	3.00	3.00	100	G0558793	4	0.18	0.30	<2	264.00	
155.13	157.58	2.45	2.45	100	G0558794	4	0.03	<0.2	2	153.00	

GEOTECHNICAL LOG

HOLE: ARN-10-03

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.13	2.13							Cassing to 2.13m
2.13	5.18	3.05	2.91	95	0.59	19		SW	
5.18	8.23	3.05	3.03	99	1.91	63		SW/FR	
8.23	11.28	3.05	3.00	98	1.65	54		SW/FR	
11.28	14.33	3.05	3.04	100	2.08	68		SW/FR	
14.33	17.37	3.04	3.03	100	2.12	70		FR	
17.37	20.42	3.05	3.03	99	2.65	87		FR	
20.42	23.46	3.04	3.00	99	3.00	99		FR	
23.46	26.52	3.06	3.02	99	2.78	91		FR	
26.52	29.57	3.05	3.06	100	2.51	82		FR	
29.57	32.61	3.04	3.04	100	2.61	86		FR	
32.61	35.66	3.05	3.00	98	1.90	62		FR	
35.66	38.71	3.05	2.68	88	1.47	48		FR	
38.71	41.75	3.04	3.04	100	1.94	64		FR	
41.75	44.81	3.06	3.06	100	1.81	59		FR	
44.81	47.85	3.04	3.04	100	2.10	69		FR	
47.85	50.90	3.05	3.04	100	2.51	82		FR	
50.90	53.95	3.05	3.03	99	1.82	60		FR	
53.95	57.00	3.05	3.02	99	2.15	70		FR	
57.00	60.05	3.05	3.05	100	1.55	51		FR	
60.05	63.09	3.04	3.00	99	1.75	58		FR	
63.09	66.14	3.05	3.04	100	0.53	17		FR	
66.14	69.19	3.05	3.00	98	0.85	28		FR	
69.19	72.24	3.05	3.04	100	1.28	42		FR	
72.24	75.29	3.05	3.05	100	0.90	30		FR	
75.29	78.33	3.04	3.04	100	1.88	62		FR	
78.33	81.38	3.05	3.05	1.00	2.08	68		FR	
81.38	84.43	3.05	3.00	98	2.84	93		FR	
84.43	87.48	3.05	3.05	100	3.05	100		FR	
87.48	90.52	3.04	3.02	99	1.81	60		FR	
90.52	93.57	3.05	3.05	100	2.95	97		FR	
93.57	96.62	3.05	3.04	100	1.96	64		FR	
96.62	99.67	3.05	3.04	100	2.61	86		FR	
99.67	102.72	3.05	3.05	100	2.09	69		FR	
102.72	105.77	3.05	3.01	99	2.16	71		FR	
105.77	108.81	3.04	3.03	100	2.75	90		FR	
108.81	111.86	3.05	3.07	101	2.95	97		FR	
111.86	114.91	3.05	3.02	99	2.27	74		FR	
114.91	117.96	3.05	2.88	94	2.12	70		FR	
117.96	121.01	3.05	3.07	101	2.86	94		FR	
121.01	124.05	3.04	3.03	100	2.57	85		FR	
124.05	127.10	3.05	3.05	100	2.71	89		FR	
127.10	130.15	3.05	3.00	98	2.68	88		FR	drillers mixed up the marker blocks
130.15	133.20	3.05	3.00	98	2.16	71		FR	had 2 437' blocks 10' apart. Depth was corrected from this point on
133.20	136.25	3.05	3.05	100	2.89	95		FR	
136.25	139.29	3.04	3.27	108	3.27	108		FR	One 20cm piece does not seem to fit anywhere
139.29	142.34	3.05	3.00	98	2.92	96		FR	
142.34	145.39	3.05	3.03	99	2.29	75		FR	
145.39	148.44	3.05	3.02	99	2.67	88		FR	
148.44	151.44	3.00	3.05	102	2.87	96		FR	
151.44	154.53	3.09	3.05	99	1.83	59		FR	
154.53	157.58	3.05	3.04	100	2.70	89		FR	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: ARN-10-03

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.00	
2.00			0.00	
3.00			0.31	
4.00			1.93	
5.00			46.10	
6.00			46.80	
7.00			70.80	
8.00			12.00	
9.00			31.90	
10.00			82.50	
11.00			91.90	
12.00			48.20	
13.00			81.10	
14.00			93.70	
15.00			42.20	
16.00			34.90	
17.00			45.00	
18.00			33.10	
19.00			31.80	
20.00			17.30	
21.00			0.97	
22.00			53.90	
23.00			18.10	
24.00			0.63	
25.00			47.70	
26.00			9.39	
27.00			1.93	
28.00			35.30	
29.00			52.70	
30.00			28.90	
31.00			37.40	
32.00			34.90	
33.00			47.50	
34.00			39.90	
35.00			42.50	
36.00			45.00	
37.00			25.50	
38.00			19.30	
39.00			66.20	
40.00			0.85	
41.00			38.40	
42.00			41.90	
43.00			38.60	
44.00			44.40	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			52.20	
46.00			45.30	
47.00			11.70	
48.00			20.80	
49.00			7.91	
50.00			0.35	
51.00			0.53	
52.00			17.30	
53.00			23.90	
54.00			27.70	
55.00			15.10	
56.00			1.19	
57.00			21.10	
58.00			69.70	
59.00			20.20	
60.00			0.70	
61.00			4.67	
62.00			13.20	
63.00			29.00	
64.00			32.10	
65.00			20.30	
66.00			7.59	
67.00			0.48	
68.00			15.10	
69.00			4.60	
70.00			22.50	
71.00			40.30	
72.00			20.60	
73.00			32.70	
74.00			24.80	
75.00			10.40	
76.00			30.70	
77.00			10.90	
78.00			32.10	
79.00			40.10	
80.00			39.90	
81.00			18.60	
82.00			29.30	
83.00			50.70	
84.00			0.50	
85.00			14.60	
86.00			0.67	
87.00			9.13	
88.00			43.60	
89.00			47.30	
90.00			5.99	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			32.00	
92.00			8.03	
93.00			41.10	
94.00			6.75	
95.00			2.08	
96.00			0.65	
97.00			10.30	
98.00			16.80	
99.00			25.10	
100.00			9.92	
101.00			16.70	
102.00			50.10	
103.00			10.10	
104.00			0.90	
105.00			1.52	
106.00			1.19	
107.00			1.89	
108.00			0.48	
109.00			0.97	
110.00			1.24	
111.00			1.29	
112.00			1.15	
113.00			1.41	
114.00			0.95	
115.00			2.41	
116.00			0.55	
117.00			3.17	
118.00			0.63	
119.00			0.62	
120.00			0.25	
121.00			5.29	
122.00			1.20	
123.00			0.35	
124.00			6.46	
125.00			4.41	
126.00			35.00	
127.00			105.00	
128.00			15.90	
129.00			9.35	
130.00			13.70	
131.00			17.50	
132.00			5.12	
133.00			1.82	
134.00			3.73	
135.00			0.59	
136.00			1.68	

MAGNETIC SUSCEPTIBILITY LOG

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments

BOX LOG

HOLE: ARN-10-03

BOX	FROM (m)	TO (m)
1	2.13	7.78
2	7.78	13.38
3	13.38	18.52
4	18.52	24.27
5	24.27	29.69
6	29.69	35.66
7	35.66	40.95
8	40.95	46.21
9	46.21	51.25
10	51.25	56.68
11	56.68	61.62
12	61.62	66.62
13	66.62	71.75
14	71.75	77.05
15	77.05	82.45
16	82.45	88.12
17	88.12	93.57
18	93.57	99.20
19	99.20	104.64
20	104.64	110.42
21	110.42	115.61
22	115.61	121.17
23	121.17	126.66
24	126.66	132.10
25	132.10	137.66
26	137.66	143.00
27	143.00	148.44
28	148.44	153.98
29	153.98	157.58

ARN PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		516409	6871220	1812	101.50

ZONE: _____

SECTION: _____

HOLE: ARN-10-04

CLAIM: YB06329

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 5.49 (m) in / out

Drilling dates: _____

Geology logged by: Oliver Fu

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	180	-45	compass				

TARGET: Positioned to test a reverse dipping model of the chargeability anomaly for zones A & B

[illegible]

SAMPLES
Numbers: G0558795 to G0558830
Total: 36
Batch: 5
Date Sent: _____
Certificate: WH10106223

COMMENTS	

GEOLOGY LOG

HOLE: ARN-10-03

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION					MINERALS							Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other				
																Type	Intensity				Type	Intensity	Type	Intensity			
0.00	5.49	5.49				OVB																				Overburden. No recovery.	
5.49	8.10	2.61				BAS							m	w	i												Altered basalt. Intensely oxidized section with abundant cross-cutting carbonate-filled veinlets (1-4 mm). Highly fractured with few zones that show minor evidence of bleaching. Few 1-3 cm xenoliths, diorite in composition with a rusty border.
8.10	18.00	9.90				BAS									i			w			Po	w					Altered amygdaloidal basalt. Rounded to angular crystals that have undergone varying degrees of alteration and ranging in size between 1-8 mm. Quartz veins are abundant and between 1-3 mm. Section is intensely oxidized and crumbly in some areas.
18.00	56.70	38.70				AND							m		w			w			Po	w					Andesite with coarse grained elongate mafics, primarily hornblende (10-25 mm). White cross-cutting quartz veins are abundant and 1-3 mm in size. Few zones have undergone minor bleaching and moderately to strong alteration. Mafics are commonly altered to chlorite.
			39.50	40.10	0.60	SKN							m	s	i			w		Po	t-w						Weakly skarnified section?
			52.32	56.70	4.38	AND							w-m	w-m	m												Porphyritic andesite with 1-2 mm lathe-shaped feldspar phenocrysts. Mafics are splintery and 1-4 mm.
			53.85	54.00	0.15	LST																					Limestone layer. Rocks above and below this zone are strongly oxidized.
56.70	101.50	44.80				BAS									m			w									Basalt with cross-cutting quartz and carbonate veining. Few have veins have a 1-2 cm alteration envelope that is bleached pale green.
			59.93	60.31	0.38				CTC	60					m	car	w-m										Highly fractured zone. Upper and lower contacts at 60°.
			63.40	67.75	4.35	BAS							m		m												Alteration increases. Crystals have a greenish alteration halo around them.
			67.77	72.65	4.88																						Weakly foliated, interbedded basaltic and limestone layers. Strong brown (biotite alteration?).
			72.65	89.60	16.95	BAS							w-s		t-w	car	m										Basalt with abundant subrounded, quartz crystals (1-2 mm) and carbonate veins (1-10 mm).
			89.60	97.80	8.20	BAS							s	s						i							Highly altered basalt with sub-massive magnetite blotches and veins. Veins are 1-6 cm and blotches are 1-7 cm wide). Party garnetiferous section has undergone significant alteration. Chlorite altered veins are common throughout. Weakly to moderately potassic(?) altered.
EOH																											

SAMPLE LOG

HOLE: ARN-10-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
5.49	8.50	3.01	3.01	100	G0558795	5	<0.005	<0.2	4	17.00	
8.50	11.50	3.00	3.00	100	G0558796	5	<0.005	0.20	6	104.00	
11.50	14.50	3.00	3.00	100	G0558797	5	0.01	<0.2	6	121.00	
14.50	17.50	3.00	3.00	100	G0558798	5	0.01	<0.2	20	151.00	
17.50	20.50	3.00	3.00	100	G0558799	5	<0.005	<0.2	7	93.00	
20.50	23.50	3.00	3.00	100	G0558800	5	0.01	<0.2	3	239.00	
-	-	-	-	-	G0558801	5	0.95	4.70	22	12850.00	Standard: CDN-CGS-21
23.50	26.50	3.00	3.00	100	G0558802	5	<0.005	0.20	3	188.00	
26.50	29.50	3.00	3.00	100	G0558803	5	0.01	<0.2	3	117.00	
29.50	32.50	3.00	2.87	96	G0558804	5	0.01	0.20	3	143.00	
32.50	35.50	3.00	3.00	100	G0558805	5	0.01	<0.2	4	49.00	
35.50	38.50	3.00	3.00	100	G0558806	5	0.02	<0.2	15	55.00	
38.50	41.50	3.00	3.00	100	G0558807	5	0.01	<0.2	22	94.00	
-	-	-	-	-	G0558808	5	<0.005	0.20	<2	3.00	Blank: B
41.50	44.50	3.00	3.00	100	G0558809	5	0.05	<0.2	2	68.00	
44.50	47.50	3.00	3.00	100	G0558810	5	0.01	<0.2	5	77.00	
47.50	50.50	3.00	3.00	100	G0558811	5	<0.005	<0.2	4	92.00	
50.50	53.50	3.00	3.00	100	G0558812	5	<0.005	<0.2	17	54.00	
53.50	56.50	3.00	3.00	100	G0558813	5	0.01	<0.2	8	34.00	
53.50	56.50	3.00	3.00	100	G0558814	5	0.04	<0.2	8	29.00	Duplicate
56.50	59.50	3.00	3.00	100	G0558815	5	<0.005	0.20	5	67.00	
59.50	62.50	3.00	3.00	100	G0558816	5	0.01	<0.2	33	80.00	
62.50	65.50	3.00	3.00	100	G0558817	5	0.01	<0.2	21	94.00	
65.50	68.50	3.00	3.00	100	G0558818	5	<0.005	0.20	9	59.00	
68.50	71.50	3.00	3.00	100	G0558819	5	0.01	<0.2	6	107.00	
71.50	74.50	3.00	2.92	97	G0558820	5	0.01	0.20	16	118.00	
-	-	-	-	-	G0558821	5	7.68	13.70	52	32600.00	Standard: CDN-CGS-20
74.50	78.35	3.85	3.62	94	G0558822	5	0.01	0.20	6	256.00	
78.35	82.10	3.75	3.75	100	G0558823	5	0.02	0.20	9	130.00	
82.10	85.85	3.75	3.75	100	G0558824	5	<0.005	<0.2	8	34.00	
85.85	89.60	3.75	3.75	100	G0558825	5	0.01	<0.2	15	71.00	
89.60	92.40	2.80	2.80	100	G0558826	5	0.01	0.30	5	75.00	
-	-	-	-	-	G0558827	5	<0.005	0.20	2	4.00	Blank: B
92.40	95.10	2.70	2.70	100	G0558828	5	0.01	0.30	5	33.00	
95.10	97.80	2.70	2.70	100	G0558829	5	0.01	0.30	5	40.00	
97.80	101.50	3.70	2.70	73	G0558830	5	0.01	0.30	13	175.00	EOH @ 101.50 m

GEOTECHNICAL LOG

HOLE: ARN-10-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering		Comments
0.00	5.49	5.49	0.55	10	0	0		SW		Casing
5.49	7.01	1.52	1.52	100	0.13	9		FR/SW		
7.01	8.53	1.52	1.53	101	0.48	32		FR/SW		
8.53	10.06	1.53	1.55	101	0.38	25		FR/SW		
10.06	11.58	1.52	1.55	102	0.37	24		FR/SW		
11.58	13.11	1.53	1.52	99	0.92	60		FR/SW		
13.11	14.63	1.52	1.50	99	0.65	43		FR/SW		
14.63	16.15	1.52	1.55	102	0.63	41		FR/SW		
16.15	17.68	1.53	1.55	101	0.00	0		FR/SW		
17.68	19.20	1.52	1.55	102	1.04	68		FR/SW		
19.20	20.73	1.53	1.52	99	1.30	85		FR		
20.73	22.25	1.52	1.52	100	1.11	73		FR		
22.25	23.77	1.52	1.50	99	1.16	76		FR		
23.77	25.30	1.53	1.53	100	0.54	35		FR		
25.30	26.82	1.52	1.55	102	0.89	59		FR		
26.82	28.35	1.53	1.50	98	1.10	72		FR		
28.35	29.87	1.52	1.55	102	0.97	64		FR		
29.87	31.39	1.52	1.42	93	1.15	76		FR		
31.39	32.92	1.53	1.55	101	1.25	82		FR		
32.92	34.44	1.52	1.55	102	0.45	30		FR		
34.44	35.97	1.53	1.50	98	0.50	33		FR		
35.97	37.49	1.52	1.55	102	0.98	64		FR		
37.49	39.01	1.52	1.52	100	0.72	47		FR		
39.01	40.54	1.53	1.55	101	1.17	76		FR		
40.54	42.06	1.52	1.53	101	1.43	94		FR		
42.06	43.59	1.53	1.55	101	0.85	56		FR		
43.59	45.11	1.52	1.52	100	1.34	88		FR		
45.11	46.63	1.52	1.52	100	1.05	69		FR		
46.63	48.11	1.48	1.49	101	0.98	66		FR		
48.11	49.68	1.57	1.53	97	1.26	80		FR		
49.68	51.21	1.53	1.55	101	0.92	60		FR		
51.21	52.73	1.52	1.52	100	1.00	66		FR		
52.73	54.25	1.52	1.52	100	1.14	75		FR		
54.25	55.78	1.53	1.50	98	1.04	68		FR		
55.78	57.30	1.52	1.53	101	0.94	62		FR		
57.30	58.83	1.53	1.54	101	1.45	95		FR		
58.83	60.35	1.52	1.54	101	1.25	82		FR		
60.35	61.87	1.52	1.47	97	1.25	82		FR		
61.87	63.40	1.53	1.60	105	1.37	90		FR		
63.40	64.92	1.52	1.49	98	1.25	82		FR		
64.92	66.45	1.53	1.50	98	0.96	63		FR		
66.45	67.97	1.52	1.54	101	0.79	52		FR		
67.97	69.49	1.52	1.50	99	0.39	26		FR		
69.49	71.02	1.53	1.52	99	0.59	39		FR		
71.02	72.54	1.52	1.51	99	0.82	54		FR		
72.54	74.07	1.53	1.52	99	0.69	45		FR		
74.07	75.80	1.73	1.50	87	0.16	9		FR		
75.80	77.11	1.31	1.53	117	0.32	24		FR		
77.11	78.64	1.53	1.50	98	0.85	56		FR		
78.64	80.16	1.52	1.52	100	0.39	26		FR		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering		Comments
80.16	81.69	1.53	1.55	101	0.93	61		FR		
81.69	83.21	1.52	1.50	99	0.50	33		FR		
83.21	84.73	1.52	1.55	102	0.43	28		FR		
84.73	86.26	1.53	1.50	98	0.55	36		FR		
86.26	87.78	1.52	1.55	102	1.18	78		FR		
87.78	89.31	1.53	1.55	101	0.91	59		FR		
89.31	90.83	1.52	1.55	102	0.41	27		FR		
90.83	92.35	1.52	1.53	101	1.05	69		FR		
92.35	93.88	1.53	1.51	99	1.20	78		FR		
93.88	95.40	1.52	1.54	101	1.54	101		FR		
95.40	96.93	1.53	1.50	98	1.50	98		FR		
96.93	98.45	1.52	1.52	100	0.77	51		FR		
98.45	99.97	1.52	1.53	101	0.48	32		FR		
99.97	101.50	1.53	1.52	99	1.04	68		FR		

MAGNETIC SUSCEPTIBILITY LOG

HOLE: ARN-10-04

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.00	
2.00			0.00	
3.00			0.00	
4.00			0.00	
5.00			0.00	
6.00			0.00	
7.00			0.33	
8.00			0.72	
9.00			1.05	
10.00			1.17	
11.00			0.84	
12.00			1.37	
13.00			2.82	
14.00			0.63	
15.00			0.42	
16.00			1.17	
17.00			0.48	
18.00			1.31	
19.00			0.28	
20.00			1.37	
21.00			4.06	
22.00			1.57	
23.00			0.73	
24.00			0.57	
25.00			0.38	
26.00			0.62	
27.00			0.95	
28.00			1.29	
29.00			0.78	
30.00			1.17	
31.00			8.61	
32.00			1.47	
33.00			0.65	
34.00			0.52	
35.00			0.78	
36.00			0.65	
37.00			0.48	
38.00			0.43	
39.00			0.38	
40.00			0.57	
41.00			0.57	
42.00			0.70	
43.00			0.82	
44.00			0.95	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			1.19	
46.00			1.10	
47.00			0.92	
48.00			0.87	
49.00			1.07	
50.00			0.77	
51.00			0.52	
52.00			0.18	
53.00			0.53	
54.00			0.30	
55.00			0.25	
56.00			0.65	
57.00			0.43	
58.00			3.74	
59.00			1.64	
60.00			0.26	
61.00			0.72	
62.00			0.57	
63.00			0.90	
64.00			0.99	
65.00			0.47	
66.00			0.65	
67.00			0.31	
68.00			0.26	
69.00			0.47	
70.00			0.52	
71.00			0.72	
72.00			0.47	
73.00			0.38	
74.00			0.43	
75.00			0.57	
76.00			0.70	
77.00			0.55	
78.00			0.23	
79.00			0.31	
80.00			0.45	
81.00			0.30	
82.00			0.43	
83.00			0.31	
84.00			0.42	
85.00			0.31	
86.00			0.62	
87.00			2.10	
88.00			0.62	
89.00			0.70	
90.00			9.76	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			2.67	
92.00			9.25	
93.00			5.52	
94.00			1.51	
95.00			1.66	
96.00			1.41	
97.00			1.68	
98.00			0.63	
99.00			0.82	
100.00			0.47	
101.00			1.62	

BOX LOG

HOLE: ARN-10-04

BOX	FROM (m)	TO (m)
1	5.49	8.26
2	8.26	11.58
3	11.58	15.52
4	15.52	18.61
5	18.61	22.70
6	22.70	26.82
7	26.82	31.00
8	31.00	34.86
9	34.86	38.54
10	38.54	42.29
11	42.29	46.23
12	46.23	50.00
13	50.00	53.45
14	53.45	57.12
15	57.12	60.91
16	60.91	64.97
17	64.97	68.80
18	68.80	72.14
19	72.14	75.60
20	75.60	79.42
21	79.42	82.97
22	82.97	86.10
23	86.10	89.61
24	89.61	93.18
25	93.18	97.26
26	97.26	100.34
27	100.34	101.50

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 Arn 1-69 mineral claims
on Claim Sheet 115F/15 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 2nd day of April 2011.


Barrister & Solicitor

IAN J. TALBOT
Barrister & Solicitor
281 East 5th Street
North Vancouver
British Columbia
Canada V7L 1L8

Statement of Expenditures
Arm 1-69 Mineral Claims
March 31, 2011

Contract Diamond Drilling

Top Rank Diamond Drilling Ltd.

\$98,463.87

Drilled one hole on YB06329 (Arm 7) and three holes on YC25989 (Arm 60)

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 539
Date: Jul 02, 2010
Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Arm Property *h*

Ship To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 West Hastings St.
Vancouver, BC
V6B 1L8

Business No.: 858351521

A ↑

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 19 - 22, 2010 Mobilization from MOR Property to first drill hole			
1.	216	Hour	Man field rate	G	65.00	14,040.00
2.	2	Each	Tank of diesel fuel	G	100.00	200.00
3.	5	Each	BTW 5' rod - 100%	G	100.00	500.00
4.	2	Each	BW casing 5' - 100%	G	120.00	240.00
5.	1	Each	BTW locking coupling - 100%	G	375.00	375.00
6.			15% S/H on items 3 - 5	G		167.25
			Subtotal:			15,522.25
			G - GST 5 %			
			GST			776.11
Comments Tele : (204) 733-2207 Fax : (204) 733-2501						Freight 0.00
<i>OK'd by W&E July 6, 2010</i>						Total Amount 16,298.36 <i>h</i>

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 540
Date: Jul 02, 2010
Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Arn Property *AK*

Ship To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 West Hastings St.
Vancouver, BC
V6B 1L8

Business No.: 858351521 *AA*

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 22 - 24, 2010 DDH# ARN-10-01			
1.	1.5	Meter	BW casing	G	102.00	153.00
2.	90.8	Meter	BTW coring	G	98.00	8,898.40
3.	24	Hour	Man field rate	G	65.00	1,560.00
4.	2	Hour	Equipment field rate	G	75.00	150.00
5.	1	Each	Super G blue	G	200.00	200.00
6.	1	Each	Super G gold	G	200.00	200.00
7.	1	Each	Number 1	G	200.00	200.00
8.	2	Each	BTW 10' rod	G	120.00	240.00
9.			15% S/H on items 5 - 8	G		126.00
			Subtotal:			11,727.40
			G - GST 5 %			
			GST			586.37
Comments Tele : (204) 733-2207 Fax : (204) 733-2501 <i>Ord by WSE July 6, 2010</i>				Freight		0.00
				Total Amount		12,313.77

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 541
Date: Jul 02, 2010
Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Arn Property *AK*

Ship To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 West Hastings St.
Vancouver, BC
V6B 1L8

Business No.: 858351521 *AK*

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 25 - 28, 2010 DDH# ARN-10-02			
1.	3.1	Meter	BW casing	G	102.00	316.20
2.	125	Meter	BTW coring	G	98.00	12,250.00
3.	60	Hour	Man field rate	G	65.00	3,900.00
4.	1	Hour	Equipment field rate	G	75.00	75.00
5.	2	Each	BTW 10' rod - 100%	G	120.00	240.00
6.	1	Each	K-ION	G	200.00	200.00
7.	1	Each	Super G blue	G	200.00	200.00
8.	1	Each	Super G gold	G	200.00	200.00
9.	1	Each	550	G	190.00	190.00
10.	1	Each	Linseed soap	G	100.00	100.00
11.			15% S/H on items 5 - 10	G		169.50
			Subtotal:			17,840.70
			G - GST 5 %			
			GST			892.04
Comments Tele : (204) 733-2207 Fax : (204) 733-2501 <i>Ok'd by W&E July 6, 2010</i>						Freight 0.00
						Total Amount 18,732.74

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 554
 Date: Jul 19, 2010
 Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Arm Property *AK***Ship To:**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016-510 West Hastings St.
 Vancouver, BC
 V6B 1L8

Business No.: 858351521

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			June 29 - 30, 2010 DDH# ARN-10-03			
1.	3.1	Meter	BW casing	G	102.00	316.20
2.	112.8	Meter	BTW coring	G	98.00	11,054.40
3.	30	Hour	Man field rate	G	65.00	1,950.00
4.	1	Hour	Equipment field rate	G	75.00	75.00
5.	2	Day	Pump #2	G	100.00	200.00
6.	1	Each	Super G blue	G	200.00	200.00
7.	2	Each	BTW 10' rod - 100%	G	120.00	240.00
8.	1	Each	Enviro Cote	G	90.00	90.00
9.	1	Each	Super G gold	G	200.00	200.00
10.			15% S/H on items 6 - 9	G		109.50
NOTE - cutoff at June 30, 2010 due to implementation of HST on July 1, 2010.						
Subtotal:						14,435.10
G - GST 5 %						
GST						721.76
<i>✓ Dr. Rayson AR-01</i>						
Comments Tele : (204) 733-2207 Fax : (204) 733-2501 <i>OK'd by WBE July 13, 2010</i>					Freight	0.00
					Total Amount	15,156.86 <i>h</i>

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 555
 Date: Jul 19, 2010
 Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Arm Property

Ship To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016-510 West Hastings St.

Vancouver, BC

V6B 1L8

Business No.: 858351521

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			July 1- 3, 2010 DDH# ARN-10-03 (CON'T from invoice 554)			
1.	39.6	Meter	BTW coring	H	98.00	3,880.80
2.	61	Hour	Man field rate - includes 2 hr. testing not charged from DDH# ARN-10-02	H	65.00	3,965.00
3.	26	Hour	Equipment field rate - includes 1 hr. testing not charged from DDH# ARN-10-02	H	75.00	1,950.00
4.	3	Day	Pump #2	H	100.00	300.00
5.	3	Day	Pump #3	H	100.00	300.00
6.	1	Each	WOB polymer	H	200.00	200.00
7.	1	Each	133 polymer	H	200.00	200.00
8.	1	Each	BTW core tube 10' - 100%	H	200.00	200.00
9.	1	Each	BTW 10' adapter locking coupling - 100%	H	375.00	375.00
10.	19	Each	BTW 10' rod - 100%	H	120.00	2,280.00
11.			15% S/H on items 6 - 10	H		488.25
NOTE - 1/2 of the rods lost were charged and 1/2 the waterline hours on July 2 day shift were charged.						
Subtotal:						14,139.05
H - HST 12%						
HST						1,696.69
Cun - NAD-01						
Comments Tele : (204) 733-2207 Fax : (204) 733-2501					Freight	0.00
OPEL by WDB July 11, 2010 to changes					Total Amount	15,835.74

Canada

Invoice No.: 556
Date: Jul 19, 2010
Page: 1

Am Property

V6B 1L8

Business No.: 858351521

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			July 3 - 6, 2010 DDH# ARN-10-04			
1.	4.6	Meter	NW casing	H	115.00	529.00
2.	100	Meter	NTW coring	H	109.00	10,900.00
3.	71	Hour	Man field rate	H	65.00	4,615.00
4.	20	Hour	Equipment field rate	H	75.00	1,500.00
5.	4	Day	Pump# 2	H	100.00	400.00
6.	2	Each	BTW 10' rod - 100%	H	120.00	240.00
7.	1	Each	133 polymer	H	200.00	200.00
8.	1	Each	WOB polymer	H	200.00	200.00
9.			15% S/H on items 6 - 8	H		96.00
			Subtotal:			18,680.00
			H - HST 12%			
			HST			2,241.60
			↑ Cur - 11A-01			
Comments Tele : (204) 733-2207 Fax : (204) 733-2501 <i>OK'd by WBE w/ changes July 1, 2010</i>				Freight		0.00
				Total Amount		20,921.60

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 557
Date: Jul 19, 2010
Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Arm Property *AH***Ship To:**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016-510 West Hastings St.

Vancouver, BC

V6B 1L8

Business No.: 858351521

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
1.	51	Hour	July 7, 2010 Demobilization from last hole and mobilization to next property Man field rate Subtotal: H - HST 12% HST	H	65.00	3,315.00 3,315.00 397.80
<i>AH Gen - NA-01</i>						
Comments Tele : (204) 733-2207 Fax : (204) 733-2501 <i>OK'd by WDE July 21, 2010</i>					Freight	0.00
					Total Amount	3,712.80 <i>AH</i>

TOP RANK

DIAMOND DRILLING LTD.

Box 930

Ste. Rose Du Lac, Manitoba R0L 1S0

Canada

INVOICE

Invoice No.: 563
Date: Jul 23, 2010
Page: 1

Sold To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Am Property

Ship To:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 West Hastings St.
Vancouver, BC
V6B 1L8

Business No.: 858351521

Item No.	Quantity	Unit	Description	Tax	Unit Price	Amount
			ADJUSTMENT - DDH# ARN-10-03, DDH# ARN-10-04			
1.	1	Each	BTW core tube 10' - 100%	H	-200.00	-200.00
2.	1	Each	BTW 10' adapter locking coupling - 100%	H	-375.00	-375.00
3.	19	Each	BTW 10' rod - 100%	H	-120.00	-2,280.00
4.	18	Hour	Man field rate - DDH# ARN-10-04 (from 71 hr. to 53 hr.)	H	-65.00	-1,170.00
			Subtotal:			-4,025.00
			H - HST 12%			
			HST			-483.00
<i>Ben - NAD</i>						
Comments Tele : (204) 733-2207 Fax : (204) 733-2501					Freight	0.00
					Total Amount	-4,508.00