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094524

ASSESSMENT REPORT

describing

PROSPECTING, GEOLOGICAL MAPPING, HAND TRENCHING AND DIAMOND DRILLING

on the

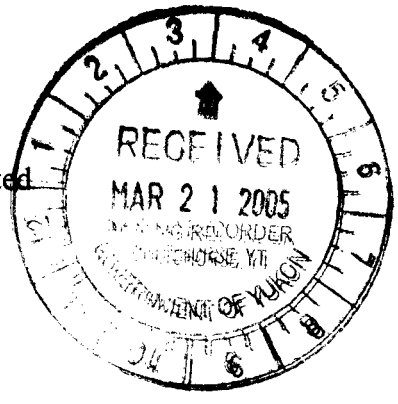
ARN PROPERTY

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

NTS 115F/15
Latitude 61°58'N; Longitude 140°41'W

in the

Whitehorse Mining District



prepared by

Archer, Cathro & Associates (1981) Limited

for

KLONDIKE GOLD CORP.

and

ATAC RESOURCES LTD.

by

T.C. Becker, B.Sc., P.Geo
January 2005

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 21,200.

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

Costs associated with this report have been approved in the amount of $ 21,200.00 for assessment credit under Certificate of Work No. QW 27740

Mining Recorder
Whitehorse Mining District

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SUMMARY AND RECOMMENDATIONS

The Arn property is a gold-copper prospect located about 6 km south of the Alaska Highway in southwestern Yukon. It consists of 69 mineral claims that are staked under the Yukon Quartz Mining Act and covers approximately 1350 hectares. It is owned by ATAC Resources Ltd. and optioned to Klondike Gold Corp. Under terms of the agreement Klondike Gold can earn a 50% interest in the property by fulfilling specific requirements and has the further right to subsequently increase its interest to 75% by fulfilling additional requirements. Strategic Metals Ltd. retains a 3% net smelter return royalty interest, 2% of which can be purchased for a total of $1.5 million.

The Arn property lies within Wrangellia, which locally consists of Triassic Nikolai Formation volcanic rocks overlain by Triassic Chitistone Formation limestone and Lower Cretaceous Dezadeash Formation clastic sedimentary rocks. The stratified rocks are intruded by Cretaceous granitic stocks and dykes. All units are cut by west-northwest striking, steeply dipping faults that parallel the Shakwak-Denali Fault System, 7 km northeast of the property. Gold and copper mineralization occurs within skarn zones, which are best developed in Chitistone Formation limestone and Nikolai Formation basalt adjacent to Cretaceous intrusions, and within quartz-carbonate veins developed along faults.

Exploration conducted on the Arn property has resulted in the discovery of 17 zones scattered across the property. Most of the work has focussed on the eastern part of the claim block. Zones toward the western end have received only limited prospecting and hand trenching. Only two zones located in the eastern part of the claim block have received diamond drilling.

Work conducted on the eastern part of the claim block at various times since 1988 has outlined extensive soil geochemical, VLF and magnetic anomalies that are only partially explained by known mineralization. Prospecting and hand trenching has primarily targeted mineralized skarn zones. Although results from most of those zones were disappointing, yielding only sporadic high gold values, two targets (Zones A and B) produced numerous high gold and copper values. These targets are located in a largely overburden covered area east of Miles Creek and south of the Arn Fault. Diamond drilling tested these targets in 2002 and 2004.

Based on information from drill holes plus detailed mapping of nearby outcrops and hand trenches, three mineralized bands have been identified in the area of Zones A and B. Each band consists of gold and copper mineralization hosted by skarnified limestone or basalt that have been intruded by narrow intermediate dykes. Mineralization within the dykes is weak and restricted to skarn related veinlets or endoskarns. The bands strike easterly and dip steeply, subparallel to the adjacent Arn Fault. This geological interpretation is supported by geophysical data. Magnetic anomalies in the area are somewhat discontinuous but their shapes indicate steep dips. Fraser filtered VLF data outlined a 350 m long anomaly that extends from slightly east of the drill holes westward to the edge of the grid. Most of the VLF anomaly is underlain by thick talus, a glacial moraine or creek gravel.

In 2002 and 2004, 22 diamond drill holes totalling 1185.39 m were completed in the vicinity of Zones A and B. These holes tested the mineralized bands over a strike length of about 120 m and provided valuable information regarding: local bedding attitudes; the position and orientation of faults and dykes; controls on mineralization; and, characteristics of the skarnified rocks. The best drill intersection came from hole Arn-04, averaging 11.92 g/t gold with 0.21% copper over 12.67 m. Mineralization in that interval consists of partially oxidized, fracture filling to semi massive pyrite, pyrrhotite, chalcopyrite and magnetite. Ten of the 22 holes produced one or more well mineralized intervals.

The western end of the claim block hosts gold and copper mineralization found in skarn horizons or in structurally controlled veins related to faults. Four zones (Zones K, L, M and Q) have returned encouraging results and several other targets are untested. Zone K is a quartz-carbonate vein zone that averaged 1.74 g/t gold and 1.13% copper across 6.6 m in a hand trench. Zones L and M consists of sulphide- and magnetite-rich skarn outcrops and float, specimens of which assayed in the range of 1 to 14.70 g/t gold. The skarn outcrops occur alongside a series of subparallel dykes cutting basalt. Magnetic surveys indicate that the dykes and skarns likely extend beyond the known showings into talus and till covered areas. Zone Q lies about 350 m west of Zone M and is associated with a similar series of dykes that, where exposed, cut limestone. Chip samples from outcrops and hand trenches graded up to 3.03 g/t gold over 8.0 m. None of these zones has been drilled.

Only a small portion of the mineral system at the Arn property has been tested and much work remains to be done. A program of detailed mapping, hand trenching and geophysical surveys is recommended in conjunction with additional diamond drilling.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



T.C. Becker, B.Sc., P.Geo.

INTRODUCTION

The Arn property is a mineral property located in southeastern Yukon Territory. It is owned by ATAC Resources Ltd. and optioned to Klondike Gold Corp.. This report describes the 2004 program that was conducted by Archer, Cathro & Associates (1981) Limited on behalf of Klondike Gold. In 2004 most of the work was done on the eastern portion of the property between June 12 and July 16 and consisted of 18 diamond drill holes totalling 1003.72 m plus minor geological mapping and hand trenching. The remainder of the field program was completed on the western portion of the property and consisted of prospecting, geological mapping, ground magnetic surveys and hand trenching. The first phase of this work was done between June 16 and 25, and the second phase between August 18 and 24.

The author supervised the work on the eastern portion of the property and his Statement of Qualifications appears in Appendix I. N. Bazowski, E. Nelson, L. Gilbride and R. Phillips worked as field assistants during this program. Geologist P. Sack supervised the work on the western portion with help from field assistants H. Smith, M. Nunez, M. Rance and R. Foubister. Drilling was contracted to E. Caron Diamond Drilling Ltd. and helicopter support was provided by Trans North Helicopters, both of Whitehorse.

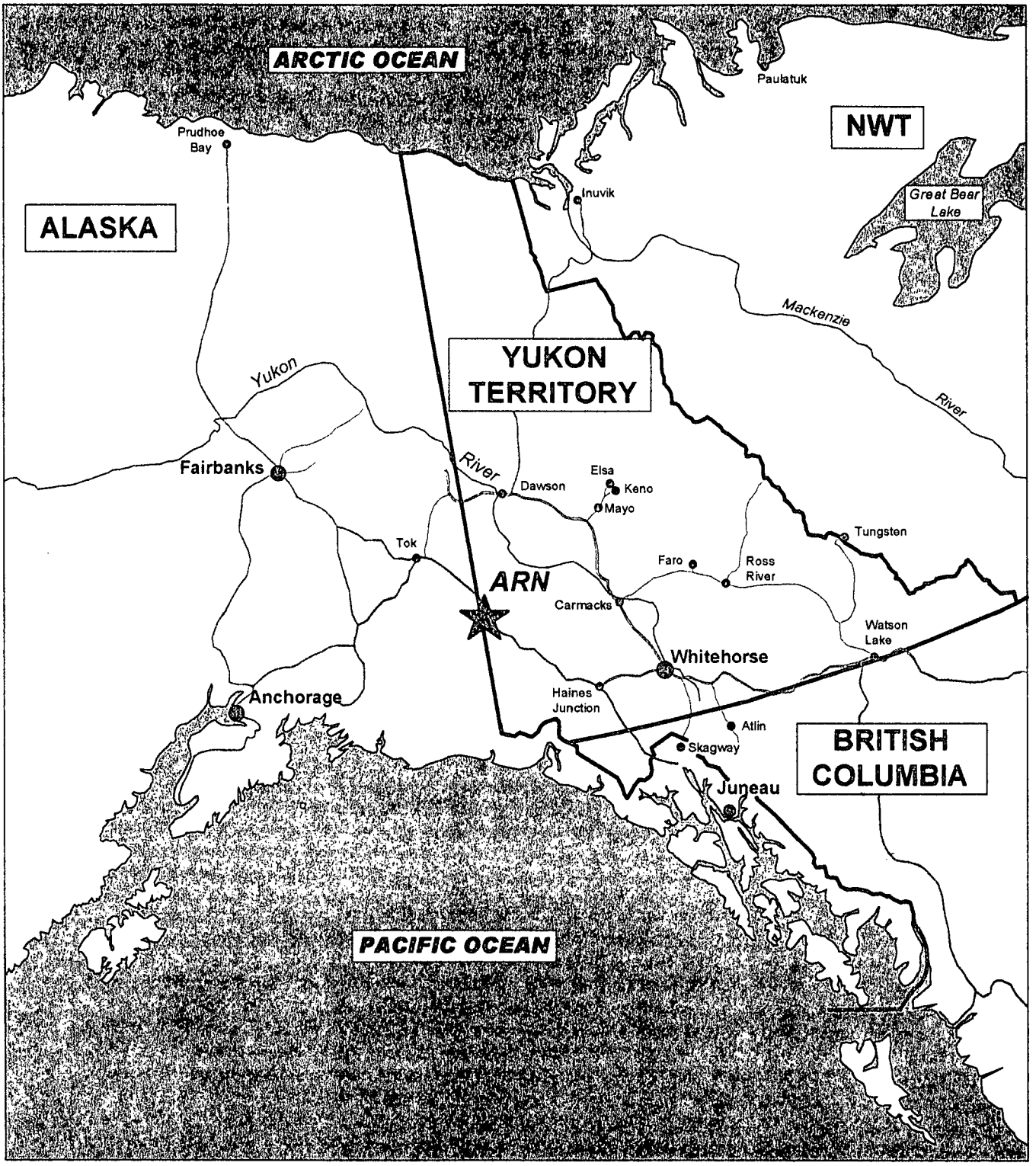
PROPERTY, LOCATION AND LAND TENURE

The Arn property consists of 69 contiguous mineral claims located in southwestern Yukon at latitude 61°58'N and longitude 140°41'W on NTS map sheet 115 F/15. The general property location is shown in Figure 1 and the location of individual mineral claims is illustrated on Figure 2. The claims were staked under the Yukon Quartz Mining Act and are registered with the Whitehorse Mining Recorder in the name of Archer Cathro which holds them in trust for ATAC. In aggregate, the claims cover an area of approximately 1350 hectares. Mineral claim tenure information is summarized below:

Claim Name	Grant Number	Expiry Date*
Arn 1-8	YB06323-YB06330	March 31, 2017
9-14	YB27511-YB27516	March 31, 2017
15-18	YB38261-YB38264	March 31, 2017
19-28	YC19631-YC19640	March 31, 2017
29-68	YC25958-YC25997	March 31, 2013
69	YC30011	March 31, 2010

*The expiry dates include 2004 work filed for assessment credit but not yet accepted.

The south-central portion of the Arn property 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 claim locations have not been legally surveyed; however Global Positioning Satellite (GPS) surveys indicate they are well staked by industry standards.



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FIGURE 1

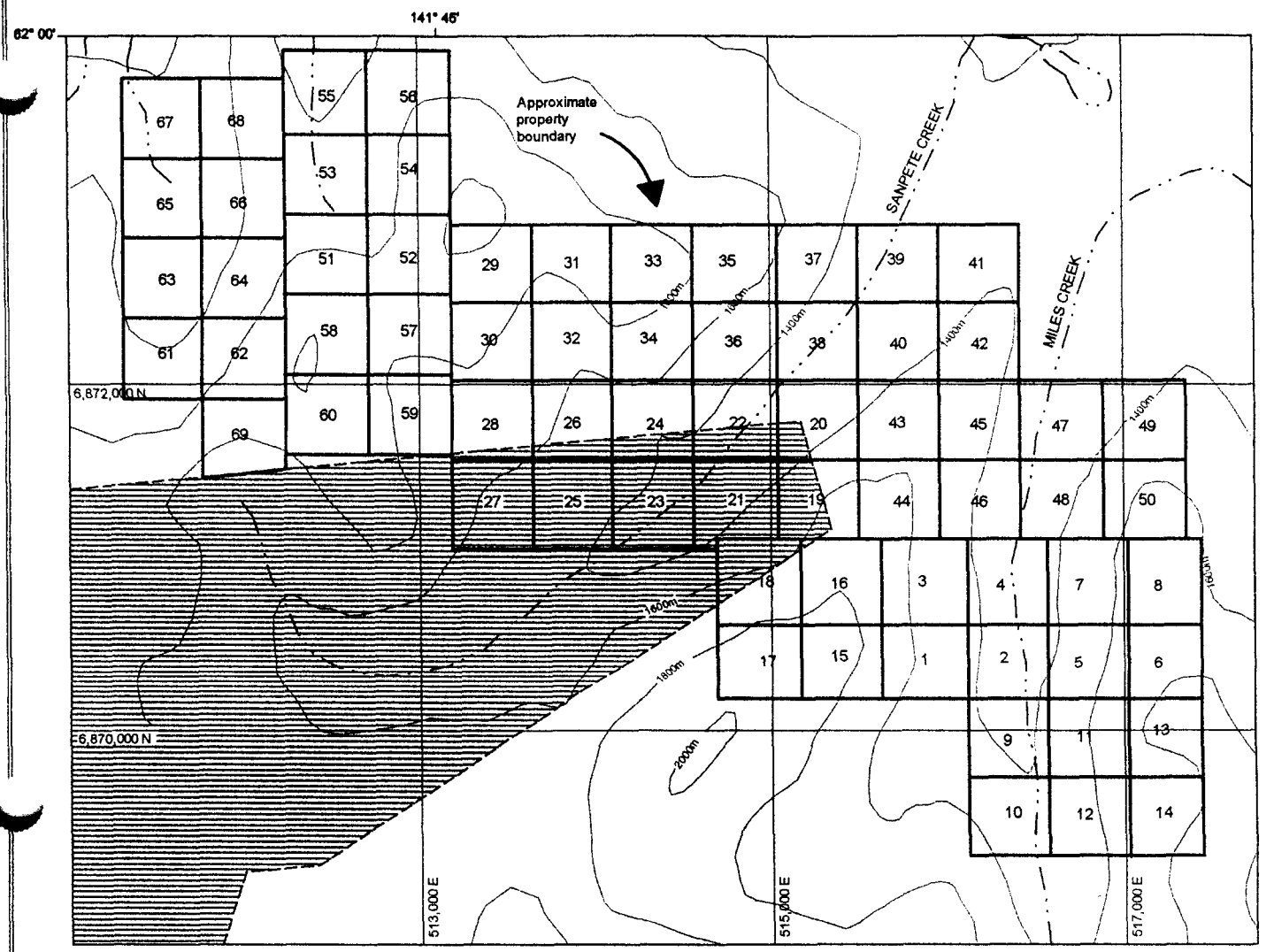
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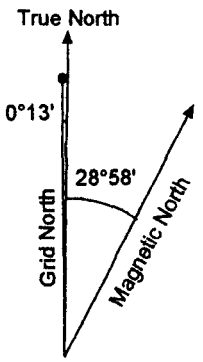
PROPERTY LOCATION

ARN PROPERTY

0 150 300 450 600 750 km

DRAWN\REVISED BY: WAW/RCC/TCB	
FILE: FIG 01 - LOCATION	DATE: JANUARY 2005





NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 m

Claim boundary
Creek
White River First Nation A Class Lands

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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION

ARN PROPERTY

0 500 1000 1500 2000 2500 m

DRAWN/REVISED BY: DJT/TCB	PROJECTION: NAD 27
FILE: FIG 02 - CLAIM LOCATION	DATE: JANUARY 2005

The Arn property is owned by ATAC (SEDAR, 2002a and 2002b). On July 6, 2004 ATAC announced that the property had been optioned by Klondike Gold (SEDAR, 2004). Under terms of the agreement Klondike Gold can earn a 50% interest by completing $1,500,000 in work expenditures on or before December 31, 2006 and making cash payments totalling $200,000 and delivering a total of 500,000 shares on or before June 30, 2009. Klondike Gold can increase its interest to 75% by issuing another 500,000 shares and producing a bankable feasibility study by December 31, 2016. Strategic Metals retains a 3% net smelter return, 2% of which can be purchased for a total of $1.5 million.

The mineral claims can be maintained in good standing by performing approved exploration work to a dollar value of $100 per claim per year. Exploration work is subject to the Mining Land Use Regulations of the Yukon Mining Quartz Act, which require permits prior to performing significant exploration programs. Exploration is currently being conducted under Class III Permit LQ00101. The work program proposed in this report could be conducted under the provisions of that permit.

ACCESS, INFRASTRUCTURE AND CLIMATE

The Arn property lies about 6 km southwest of the Alaska Highway and 7 km southwest of the White River Lodge located on the highway near the bridge over the White River. The White River Lodge normally provides seasonal accommodation from May until October and is a suitable staging area for helicopter support. The closest year round helicopter base is located at Haines Junction, 216 km to the southeast. Helicopter support for the 2004 program was provided by a Bell 206B Jet Ranger operated by Trans North Helicopters from its base at Haines Junction.

The Arn property is 375 km northwest of Whitehorse via the Alaska Highway and 80 km southeast of Beaver Creek, the closest community. A gravel road runs from the Alaska Highway, up Sanpete Creek to within 9 km of the property. An old bulldozer trail extends 6 km further, to within 3 km of the eastern end of the property. The terrain between the end of the road and the claims is relatively gentle and should not present a major obstacle to construction of an access trail, if warranted.

The closest source of electrical power is the Aishihik Dam, 330 km to the east. Whitehorse, the territorial capital, is the nearest main supply centre. Beaver Creek hosts an RCMP detachment, nursing station, several hotels, restaurants and a store.

Both Miles and Sanpete Creeks contain abundant water for camp and diamond drill purposes. There are numerous good campsites in both drainages.

The climate in the northern St. Elias Mountains is characterized by very cold long winters, truncated fall and spring seasons and a short, cool and often wet summer season (Muller, 1967). The normal operating season for mineral exploration is from late May through early October.

PROPERTY HISTORY

The exploration history of the Arn property dates back to the 1970s and is listed in the Yukon Minfile as entries 115 F 048 and 049 (Deklerk, 2004). Descriptions of work conducted on the property are summarized in assessment reports prepared to standards specified in the Yukon Quartz Mining Regulations. The locations of pre 2004 exploration work on the property are shown in Figure 3.

The area now covered by the Arn property was first staked as a copper prospect by a syndicate composed of Imperial Oil Ltd., Bow Valley Industries Ltd. and Canadian Industrial Gas and Oil Ltd. during the 1970s. There is no record of work performed at that time or results obtained.

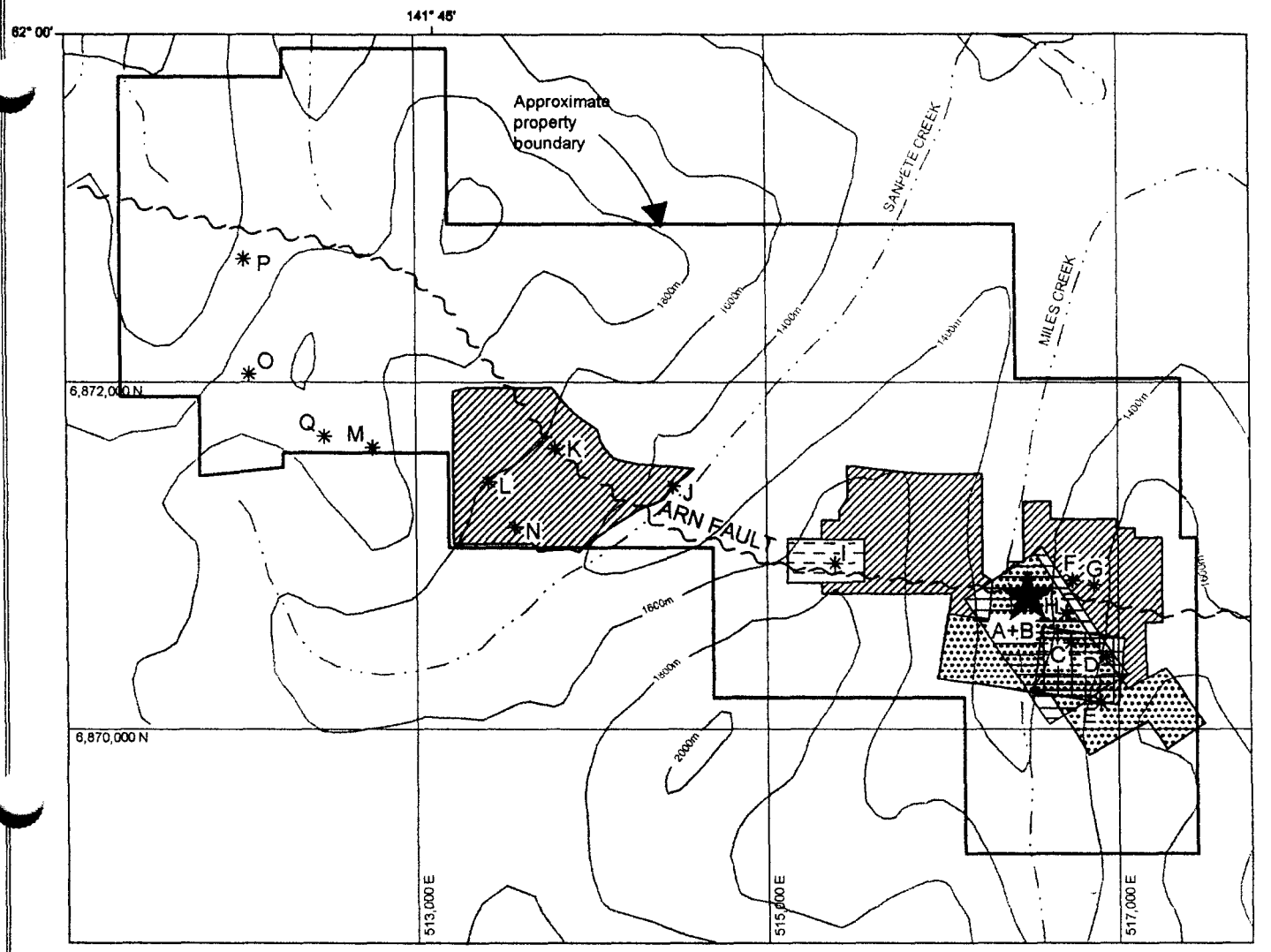
The area was again explored but not staked by Nat Joint Venture (Chevron Canada Ltd. and Armco Mineral Exploration Co.) in 1980 on the basis of anomalous gold in stream sediments (Archer and Onasick, 1980). Although follow up prospecting in 1981 and 1982 yielded rock specimens that assayed between 1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

The first eight claims comprising the Arn property were staked in 1987 by the Kluane Joint Venture (All-North Resources Ltd. and Chevron Minerals Ltd.). The joint venture conducted geological, geochemical, ground magnetic and very low frequency-electromagnetic (VLF-EM) surveys in 1988. Figure 3 shows the location of these surveys and all subsequent geochemical and geophysical grids. The 1988 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 it 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 across 2.5 m and 6.21% copper with 4.3 g/t gold across 1.5 m (Carne, 1999).

ATAC optioned the Arn property from Strategic Metals in February 2002 (SEDAR, 2002a) and completed a purchase of the property from Strategic Metals in November 2002 (SEDAR, 2002b). During June 2002, ATAC drilled four diamond drill holes with a total length of



1988 geophysical grid

1993 geophysical grid

Pre 2002 soil grid

2002 soil grid

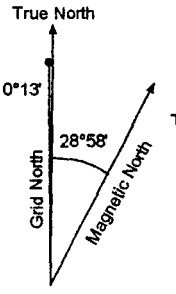
2003 soil grid

★ 2002 drill area

✳ Zones of mineralization

Am Fault

Claim boundary



NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 m

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HISTORICAL WORKINGS

ARN PROPERTY

0 500 1000 1500 2000 2500 m

DRAWN/REVISED BY: DJT/TCB	PROJECTION: NAD 27
FILE: FIG 03 - HISTORICAL WORKINGS	DATE: JANUARY 2005

181.67 m, and conducted soil sampling and prospecting. This was followed by additional prospecting and claim staking in August (Eaton, 2003 and Power, 2003). 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.

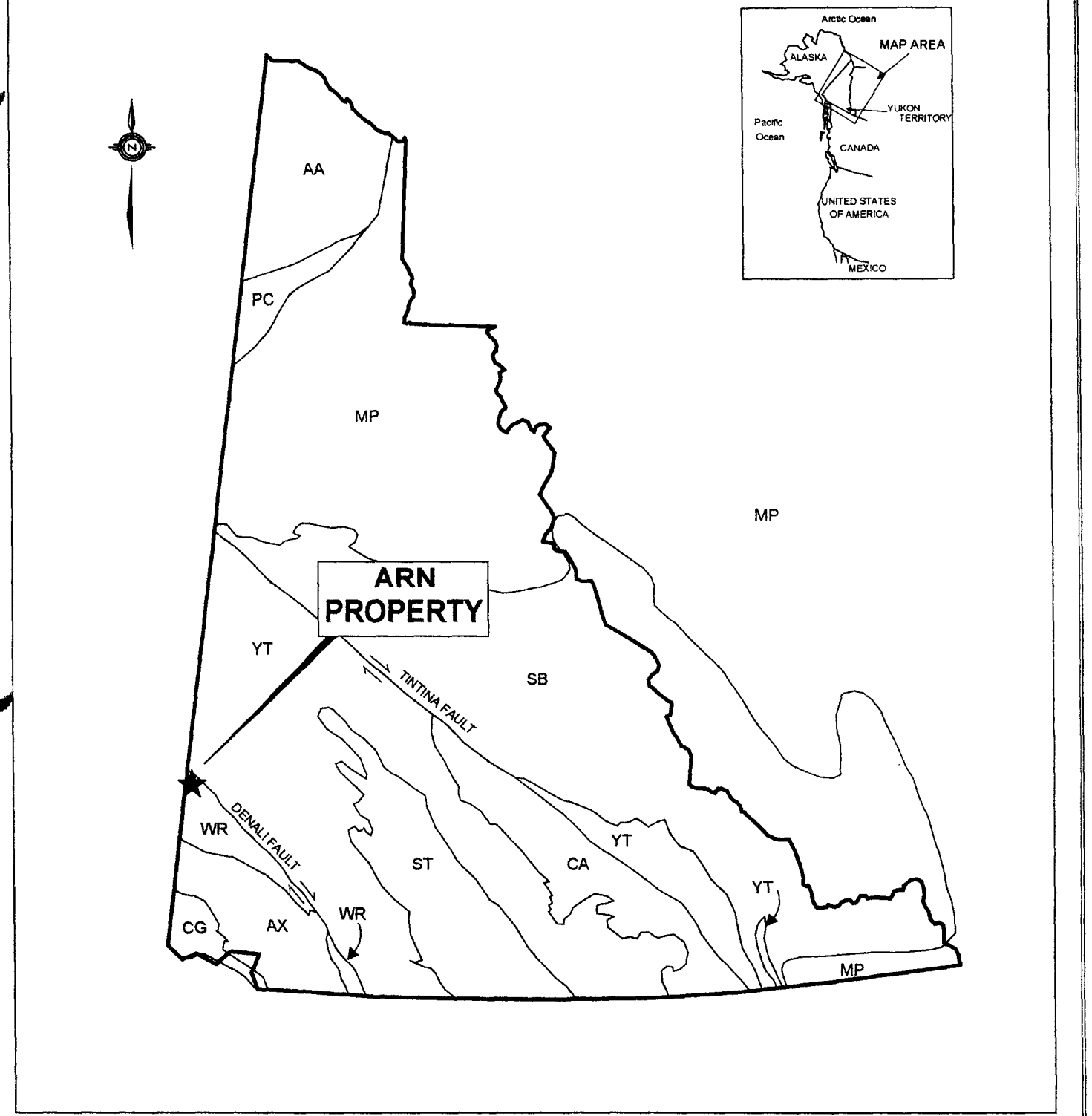
GEOMORPHOLOGY

The Arn property is located near the northeastern limit of the St. Elias Mountains about 6 km southwest of the Shakwak Valley. The claims are drained by Miles and Sanpete Creeks, both flowing into the White River which is part of the Yukon River watershed. They lie immediately northwest of Mount. Taylor, a local promontory peaking at 2190 m. Elevations on the claim block range from about 1300 m alongside the creeks to 1980 m. Topography in both creek valleys
consists of meandering, actively eroding creek beds, flanked by moraine terraces that are partially overlain by broad talus fans. Ice fields occupy some north facing cirques upstream from the claims. Slopes are moderate to steep, typically varying between 20 and 45°.

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

REGIONAL GEOLOGY

The regional geology of the area containing the Arn property has been studied by Campbell and Dodds (1979). Gordey and Makepeace (1999) contains a compilation of the regional data collected to date. 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 volcanics, fine grained pelitic clastics and minor carbonates intruded by post-accretionary intrusive rocks. The regional stratigraphy in the area of the Arn property as described by Gordey and Makepeace (1999) is summarized in Table I.



ANCESTRAL NORTH AMERICA

- MP — Mackenzie Platform
- SB — Selwyn Basin

TERRANES
Displaced Continental Margin

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

Pericratonic Terranes

- YT — Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

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

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FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY
ARN PROPERTY

0 100 200 km

DRAWN/REVISED BY: TCB	
FILE: ...\FIG 04 - REGIONAL GEOLOGY	DATE: JANUARY 2005

TABLE I
REGIONAL ROCK UNITS*

Formation or unit	Age	Description
Overburden	(Quaternary to Holocene)	Overburden: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits; talus at high elevations.
Kluane Ranges Plutonic Suite	(Lower Cretaceous)	Intrusive rocks: grey, medium to coarse grained, biotite-hornblende granodiorite, quartz diorite and quartz monzonite.
Dezadeash Formation	(Lower Cretaceous)	Clastics: interbedded light to dark buff grey lithic greywacke, sandstone, siltstone, thin dark grey shale, argillite, phyllite and conglomerate; rare tuff.
Chitistone Formation	(Upper Triassic)	Carbonates: thin interbedded light to dark grey argillaceous limestone and dark grey argillite; massive light grey limestone, limestone breccia and darker grey, well bedded limestone; white to creamy white gypsum and anhydrite (McCarthy, Chitistone and Nizina limestones). On a regional scale, this unit is best developed 5 km west of the Arn property where several 200 to 300 m thick sections are exposed over a strike length of about 4 km.
Nikolai Formation	(Upper Triassic)	Volcanics: amygdaloidal basaltic and andesitic flows, with local tuff, breccia, shale and thin bedded bioclastic limestone; volcanic breccia, pillow lava and conglomerate at base; locally includes dark grey phyllite and minor thin grey limestone of Middle Triassic (Nikolai Greenstone).
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, breccia and tuff (Hasen Creek Formation)

* after Gordey and Makepeace (1999)

The regional structure in the area of the Arn property is dominated by the Shakwak-Denali Fault System (SDFS). The SDFS is a continental scale fault system extending from the Queen Charlotte Islands in British Columbia through the Yukon and into western Alaska. The structure originally developed along a northeast dipping subduction zone but the sense of displacement changed from dominantly compressional to transpressional/right-lateral at the end of the

Cretaceous (65 MA). Since then, 350 km of right lateral displacement has occurred along the fault zone. The fault trace is centred approximately 7 km northeast of the Arn property, striking northwest into Alaska. In detail, the SDFS consists of anastomosing, steeply dipping faults in an overburden covered band approximately 2 km wide. South of the SDFS, in the tectonic block containing the Arn property, sedimentary and volcanic strata strike dominantly northwest and dip moderately (Campbell and Dodds, 1979).

PROPERTY GEOLOGY

Outcrops on the Arn property are abundant along ridge crests and on the upper slopes of mountains, particularly on the walls of cirques but are rare on lower slopes and along valley bottoms where outcrops are covered by moraine terraces and broad talus fans. The geology in the eastern part of the Arn property is described by Main (1989), Copeland et al. (1993), Carne (1999) and Eaton (2003). Figure 4 shows geology for the entire property as compiled from earlier work and mapped by Archer Cathro in 2004. Lithologies identified on the Arn property are summarized in Table II.

TABLE II
PROPERTY GEOLOGY ROCK UNITS

Formation or unit	Age	Description
Overburden	(Quaternary to Holocene)	Glacial deposits, talus and fluvial sediments.
Kluane Ranges Plutonic Suite	(Lower Cretaceous)	Andesite and felsite dykes cut by diorite stocks and dykes (KRPS/KRFD/KRDR)
Dezadeash Formation	(Lower Cretaceous)	Mudstone, siltstone and sandstone with minor interbedded andesite flows (DFMS)
Chitistone Formation	(Upper Triassic)	Limestone (CHLS).
Nikolai Formation	(Upper Triassic)	Basalt and andesite flows (NFVC)

Nikolai Formation (Nikolai) volcanic rocks are the oldest exposed unit and underlie about 80% of the property. The dominant rock type consists of dark green, amygdaloidal to massive basalt flows containing up to 40% amygdules, mainly filled with calcite and chlorite (NFVC). The base of this unit is covered and its thickness cannot be determined. Lesser volumes 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 member.

Chitistone Formation (Chitistone) limestone usually forms lenses that discontinuously overlie the Nikolai volcanics. Locally limestone is completely surrounded by volcanics within the uppermost part of the Nikolai section. The limestone typically forms large blocks, several hundred metres long but usually less than 30 m thick. The largest block occurs in the southwestern corner of the property where it reaches a thickness of about 90 m. Where entrained in the uppermost Nikolai volcanic flows, the limestone blocks appear to be slump rotated olistoliths. Away from intrusive contacts, the limestone is very finely crystalline, light to medium grey and slightly recrystallized (CHLS). Bedding is locally well marked by alternating

grey bands but the rocks are generally massive. Near intrusive contacts, the limestone is commonly altered forming massive, medium to coarse grained marble or skarn.

Dezadeash Formation (Dezadeash) rocks on the property consist mainly of thin bedded, siliceous mudstone to siltstone alternating with fine sandstone (DFMS). Colour varies widely between adjacent beds in shades of white, cream, pale green, dark green and black. Graded bedding is common and indicates the sequence is upright. In the northeastern corner of the property, the lower part of the formation includes thin, massive andesite to basalt flows or sills, interlayered with sedimentary rocks similar to those higher in the section. In terms of texture and mineralogy, the Dezadeash flows resemble Nikolai andesite flows and Kluane Ranges Plutonic Suite (KRPS) andesite dykes.

KRPS rocks on the property include dyke swarms of andesitic composition, related felsite dykes and volumetrically most important, apparently younger series of diorite stocks and 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 crosscut each other. In a few places, diorite intrusions appear to truncate andesite dykes.

KRPS andesites are subdivided into three facies. The most distinctive are 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. Elsewhere rocks of this facies contain 3 to 5% plagioclase phenocrysts (KRA2), mostly less than 2 mm in size. 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). This facies resembles Nikolai andesite flows mapped near the main showings, and some of those Nikolai flows may be actually KRPS sills.

KRPS felsite dykes (KRFD) are pale cream to green and non porphyritic to slightly porphyritic. Phenocrysts consist predominantly of plagioclase. This unit is most commonly found intruding Chitistone limestone or Dezadeash clastic sediments.

KRPS diorite (KRDR) forms a large stock and dykes ranging from a few metres to several tens of metres thick. The diorite stock is often in fault contact with the stratified units and is mostly in the north half of the property. The larger diorite bodies are zoned with a finer crystalline border zone and a coarser crystalline core while most of the smaller bodies are finely crystalline throughout. An intrusive breccia, with fragments of KRPS andesite and Nikolai volcanics in a matrix of fine grained diorite, occurs east of Miles Creek. Contacts between Dezadeash strata and diorite stock are often complex with abundant dyking and roof pendants.

The youngest rocks on the property are thin (< 2 m wide), aphanitic to slightly porphyritic andesite dykes that cut the older units, including KRPS intrusions and skarn zones. Several of these dykes are intruded along minor faults. They are compositionally similar to dykes dated as Oligocene elsewhere in the Kluane Range.

Structure on the Arn property is dominated by the west-northwest striking, steeply dipping Arn, Sideshow and Sanpete Faults (Figure 5.). These faults strike generally parallel to the SDFS. All

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FIGURE 5

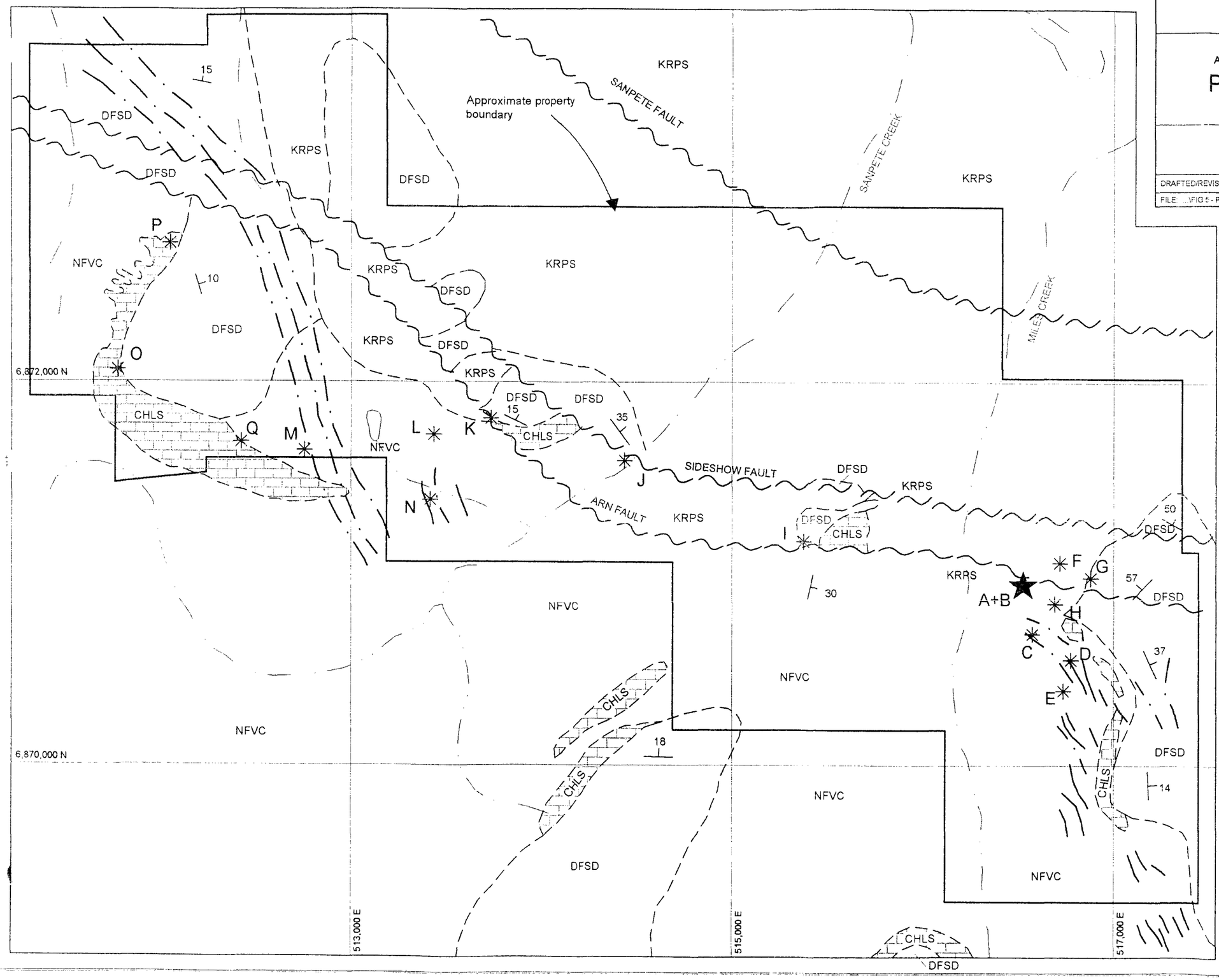
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PROPERTY GEOLOGY
ARN PROPERTY

SCALE 1:20,000

0 200 400 600 800 1000m

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FILE: ...\FIG 5 - PROPERTY GEOLOGY	DATE: JANUARY 2005



2002 and 2004 drill area

Zone of mineralization described in text

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

True North

0°13'

28°58'

Grid North

Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

three of the faults have been traced across the length of the property. While differing lithologies are sometimes juxtaposed by the faults, the magnitude and direction of displacement cannot be determined from the available data. In the eastern portion of the property, the Arn Fault dips steeply to the north but it changes to a southwesterly dip in the central portion of the property.

In detail, the exact location of the Arn Fault is often problematic since there does not appear to be a single main structural break. Instead the fault forms a broad zone of increased brittle fracturing with numerous hairline to 30 cm wide veins that have been filled with white calcite, quartz and carbonate minerals. It is likely that during the weathering process the removal of the carbonate matrix results in broken loose rock, which is preferentially removed by mass wastage. The result is a prominent linear gully that can be traced across the property and is visible in air photos.

The Arn Fault bisects two distinct structural domains. North of the fault, strata are more deformed and show a wide range of strikes and dips. South of the fault, rocks usually strike northwest and dip shallowly to the northeast.

ALTERATION AND MINERALIZATION

Exploration conducted on the Arn property since 1987 has resulted in the discovery of 17 zones scattered across the property. The zones consist of gold and copper mineralization found in skarn horizons or in structurally controlled veins related to faults. Most zones were found by prospecting or investigation of soil geochemical anomalies. Only two zones have been tested by diamond drilling and most of the others have received only minor hand trenching. All mineralization appears to be epigenetic and related to the emplacement of the KRPS. The following paragraphs describe the characteristics of the skarns, nature of mineralization and individual mineralized zones.

Alteration

Skarns and ***hornfels*** are associated with KRPS intrusions and are widespread on the Arn property. The term skarn refers to rocks that have undergone thermal metamorphism and metasomatism, a process which involves hydrothermal introduction of ions from an external source. The term hornfels refers to rocks produced by thermal metamorphism without metasomatism. On the property it was possible to: characterize the shape and stratigraphic location of skarn zones; identify several different skarn types based on their mineral assemblages; and, differentiate the degree of skarnification based on several physical attributes. Insufficient mapping and sampling have been done to completely characterize the hornfels, in part because it is not a common rock type on the property. Hornfels is generally identified by its bleached appearance, lack of parallel alignment of mineral grains, presence of relic fabrics, simple mineralogy and weak mineralization.

The shape of skarn zones is variable but most are tabular to sheet-like hydrothermal horizons ranging from less than a metre to a few tens of metres thick. They also occur as irregular lenses, veins and possibly as vertical pipe-like bodies along permeable structures. Favourable structural locations for development of skarn mineralization include: intersections between dykes/sills and

chemically reactive horizons, contacts between dykes/sills and high angle faults and less commonly near tension zones, fold axes and permeable faults.

Stratigraphy exerts strong controls on skarn emplacement. Exoskarn zones are frequently found within the Chitistone limestone, less often within Nikolai basalt and rarely in the lower part of the Dezadeash. Well developed endoskarns are found within some KRPS intrusions. Figure 6 is a cartoon section showing idealized relationships between various mineral zones and the main geological features.

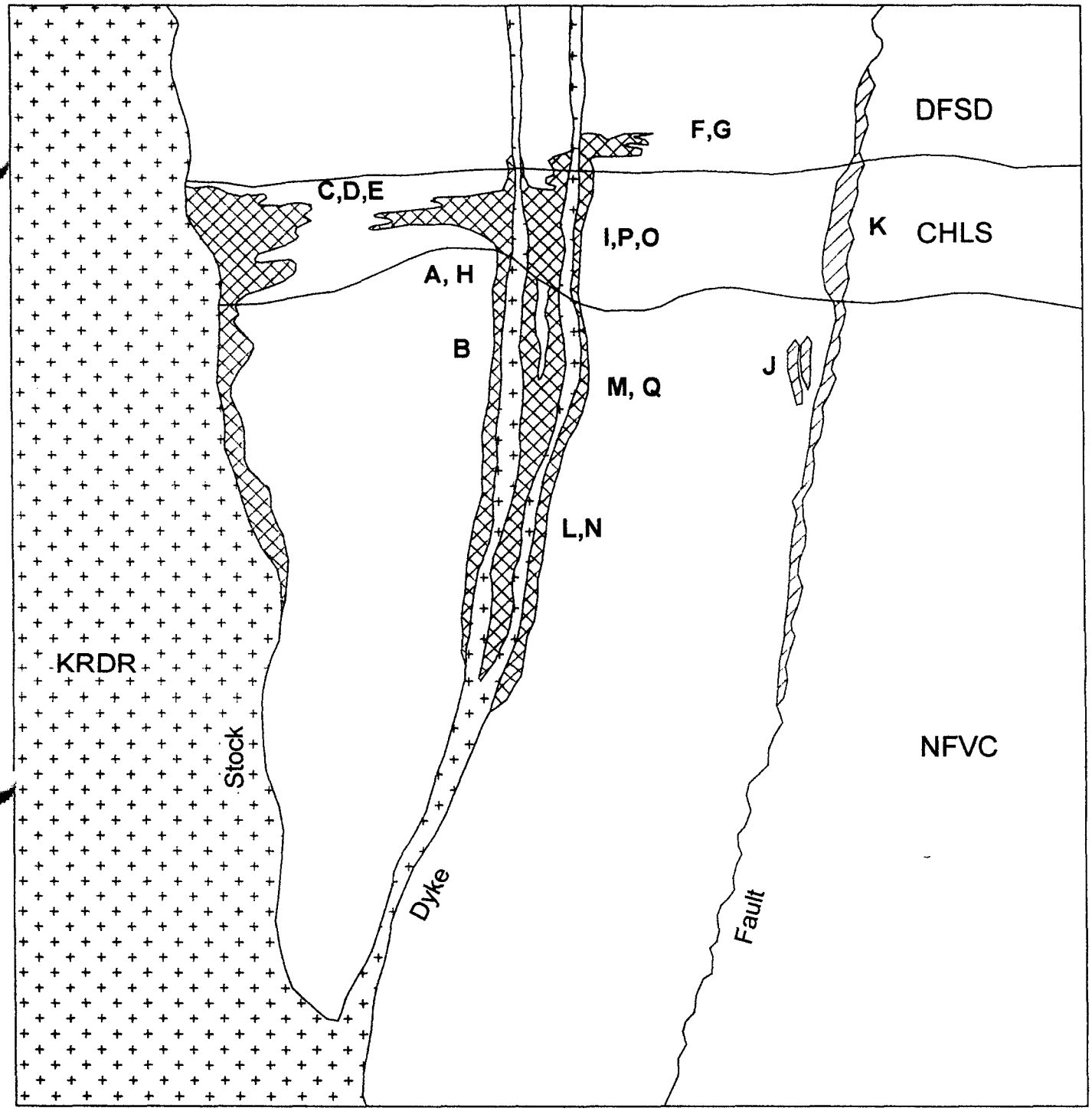
Skarnification is a gradational process that can range from trace through to pervasive based on the abundance of metasomatic minerals. Where skarn is used as a rock type, more than 50% of the rock must be metasomatic minerals. Skarn rocks can be subdivided based upon the relative abundance of the various metasomatic minerals and seven types have been identified on the property. Six of the seven skarn types are dominated by a specific indicator mineral while the seventh is a mixture of them. Most skarns are dominated by one of the following gradational assemblages: 1) pyrite, 2) pyrrhotite, 3) magnetite, 4) garnet, 5) mafic, 6) epidote and 7) mixed. The first three assemblages are usually oxidized near surface and weather recessively while the others are generally resistant weathering. Figure 7 illustrates the characteristics of the various skarn types. Appendix II summarizes geochemical statistics for all rock types including the main skarn assemblages, as obtained from 2002 and 2004 drill samples. The following paragraphs describe each skarn type separately. These descriptions are arranged in approximate order of abundance, from most common to least common.

Garnet skarns (SKGA) contain 60 to 90% garnet, in places showing well developed euhedral crystals up to a few millimetres across. Most garnets are pale pink but pale brown to medium green specimens have been noted. The garnets appear to be zoned with a core of grossular and a rim of andradite indicating an increasing iron content of the mineralizing fluids over time (Miller, 2004). Interstitial minerals include calcite, epidote and lesser magnetite, clinopyroxene, hornblende, actinolite, tremolite and quartz. Some samples contain very minor pyrite and pyrrhotite. Garnet rich skarns are generally found in massive lenses but also occurs in interbanded garnet- and magnetite-rich lenses. Garnet skarns usually have low gold, iron and sulphur values.

Mixed skarns (SKRN) refer to rocks with more than 50% skarn minerals but where no particular skarn mineral dominates. They are usually a mixture of 1/3 garnet, 1/3 mafic minerals and 1/3 sulphides and/or magnetite, with minor interstitial calcite, quartz and epidote. Most copper- and gold rich mineralization belongs to this skarn type.

Magnetite skarns (SKMG) usually contain over 70% magnetite with minor interstitial pyrite and chalcopyrite. The iron oxide composition of these rocks is confirmed by an average iron grade of 32.6% but only 2.28% sulphur. This compares to the iron sulphide dominated pyrite and pyrrhotite skarns which have similar iron grades but 3 to 4 times higher sulphur contents.

Pyrite skarns (SKPY) are rocks that contain over 50%, fine to coarse grained disseminated to semi massive pyrite, with pyrrhotite, chalcopyrite, magnetite, garnet, mafic minerals and calc-



Skarn

SKRN Skarn

Quartz-carbonate vein or replacement

J Approximate position of mineralized zone described in text

Kluane Range Plutonic Suite

KRDR Diorite and porphyry dykes

Dezadeash Formation

DFSD Mudstone, siltstone and sandstone with lesser andesite to basalt flows, sills

Chitistone Formation

CHLS Limestone and marble

Nikolai Formation

NFVC Amygdaloidal basalt

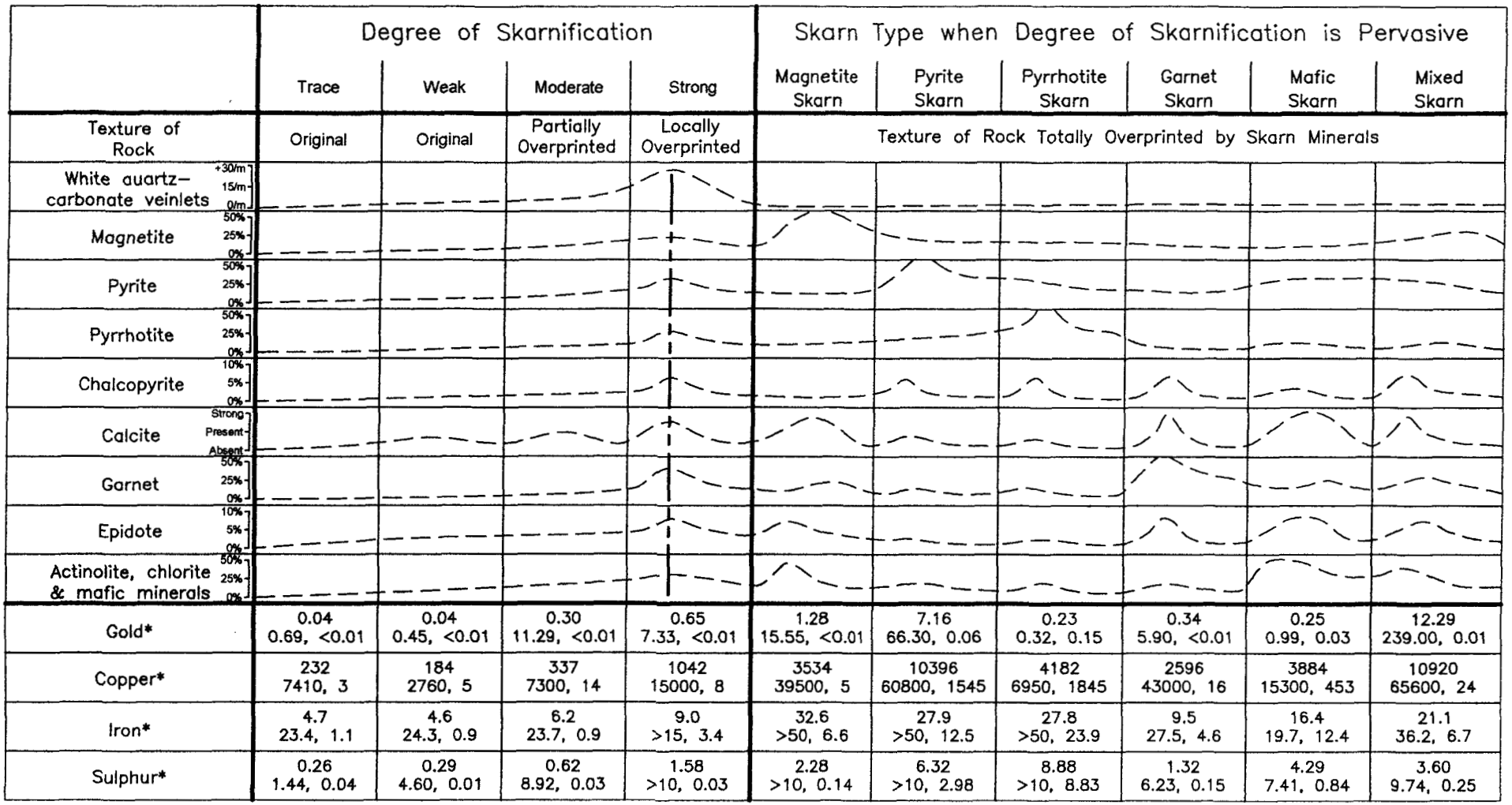
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FIGURE 6

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MINERAL SETTINGS
ARN PROPERTY

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FILE: ...\FIG 06 - MINERAL SETTING	DATE: JANUARY 2005



	Trace	Weak	Moderate	Strong	Magnetite Skarn	Pyrite Skarn	Pyrrhotite Skarn	Garnet Skarn	Mafic Skarn	Mixed Skarn
Gold*	0.04 0.69, <0.01	0.04 0.45, <0.01	0.30 11.29, <0.01	0.65 7.33, <0.01	1.28 15.55, <0.01	7.16 66.30, 0.06	0.23 0.32, 0.15	0.34 5.90, <0.01	0.25 0.99, 0.03	12.29 239.00, 0.01
Copper*	232 7410, 3	184 2760, 5	337 7300, 14	1042 15000, 8	3534 39500, 5	10396 60800, 1545	4182 6950, 1845	2596 43000, 16	3884 15300, 453	10920 65600, 24
Iron*	4.7 23.4, 1.1	4.6 24.3, 0.9	6.2 23.7, 0.9	9.0 >15, 3.4	32.6 >50, 6.6	27.9 >50, 12.5	27.8 >50, 23.9	9.5 27.5, 4.6	16.4 19.7, 12.4	21.1 36.2, 6.7
Sulphur*	0.26 1.44, 0.04	0.29 4.60, 0.01	0.62 8.92, 0.03	1.58 >10, 0.03	2.28 >10, 0.14	6.32 >10, 2.98	8.88 >10, 8.83	1.32 6.23, 0.15	4.29 7.41, 0.84	3.60 9.74, 0.25

Degree of Skarnification	No. of Intervals
Trace	70
Weak	166
Moderate	75
Strong	27

Skarn Type	Code	No. of Intervals
Magnetite Skarn	SKMG	20
Pyrite Skarn	SKPY	10
Pyrrhotite Skarn	SKPO	3
Garnet Skarn	SKGA	26
Mafic Skarn	SKMF	5
Mixed Skarn	SKRN	23

1.30
0.10–239.00 Average value over maximum and minimum value

Mineralization associated with skarn veins

* Averages do not include values exceeding upper detection limit or below lower detection limit

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FIGURE 7

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SKARN CHARACTERISTICS

ARN PROPERTY

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FILE: ...\FIG 07 - SKARN CHARACTERISTICS

DATE: JANUARY 2006

silicates. Pyrite rich skarns are usually formed within porphyritic dykes. Some copper- and gold rich mineralization belongs to this skarn type.

Pyrrhotite skarns (SKPO) are not common and generally form small lenses. They are usually over 80% pyrrhotite with intergrown magnetite and actinolite plus minor garnet, epidote and chalcopyrite. The pyrrhotite is usually moderately magnetic. These skarns weather readily to limonite and are generally recessive; consequently their abundance could be greater than mapping suggests.

Mafic skarns (SKMF) refers to rocks that are predominantly amphiboles (mainly hornblende and actinolite) with lesser fine grained unidentified green minerals, possibly chlorite. Mafic rich skarns are commonly banded and contain calcite or quartz-rich patches and lenses parallel to compositional layering. These skarns often contain minor interstitial pyrite, chalcopyrite and magnetite.

Epidote skarns (SKEP) are found in the Chitistone limestone and contain abundant recrystallized, medium to coarse grained accessory calcite and locally abundant quartz and actinolite. Epidote skarns often grade into fresh limestone or marble. Miller (2004) recognized epidote alteration overprinting all rocks which suggests this skarn type should be viewed as late alteration. Epidote skarn type was not observed in diamond drilling and is not included in Figure 7.

Six degrees of skarnification have been identified on the property. They are differentiated based on the following physical characteristics: changes to original rock texture and type, abundance of veinlets/hairline fractures, percentage of skarn minerals and changes in colour. *Pervasive* implies complete destruction of original rock texture, inability to recognize original rock type, lack of veinlets, well over 50% of the rock composed of skarn minerals, skarn minerals evenly distributed over the entire interval and the rock colour provided by skarn minerals. *Strong* skarnification refers to rocks where the original texture is partially observable, it is possible to identify the original rock type, veinlets are present but not abundant, over 50% of the original rock is skarn minerals but the skarn minerals occur in bands and may not be evenly distributed, and host rocks are almost completely bleached with the dominant colour provided by skarn minerals. Most areas of strong skarnification are associated with skarn veinlets. *Moderate* intensity is used when the host rock type and textures are still observable, veinlets are common, the amount of skarn minerals is less than 50%, and the host rocks are partially bleached with some original colours and some colour provided by skarn minerals. *Weak* skarnification means that some skarn minerals are present either near veinlets or in patches within the rock but in low quantities, and the host rocks usually appear fresh except for some bleaching. *Trace* refers to only a few visible patches or grains of skarn minerals and very limited bleaching of host rock. *Absent* means that the rock is fresh and contains no skarn minerals. There appears to be a gradational transition from hornfels to skarn and some weakly skarnified rocks may be hornfels.

Mineralization

Mineralization on the Arn property occurs within skarnified rocks or less commonly in structurally controlled quartz-carbonate veins related to faults. Skarn altered rocks host two

styles of mineralization: disseminated sulphides and narrow crosscutting veinlets. The relationship between skarns and vein faults has not been fully characterized but they appear to have formed at the same time.

Disseminated sulphides are associated with calcite in both endoskarns and exoskarns. Sulphides are commonly present in narrow calcite veinlets or in areas where calcite has invaded the wallrock (Miller, 2004). Disseminated sulphides are most common in areas of pervasive skarnification where the rock texture and mineralization style reflects a higher level of thermal metamorphism and metasomatism. As the degree of skarnification decreases, the amount of disseminated sulphides also decreases; except in areas with a high concentration of quartz veinlets, where disseminated sulphides are developed in adjacent wallrocks.

Skarn related veinlets are common in most mineralized zones. The number of veinlets generally increases as the degree of mineralization and skarnification increases. However, in areas of pervasive skarnification the number of veinlets decreases. Three types of veinlets have been identified; white calcite-quartz veinlets, pale grey quartz ±sulphide veinlets and hairline fractures.

Calcite-quartz veinlets are the most common of the three types. They are usually unmineralized and, in addition to white quartz and calcite, may contain one or more of the following minerals, in approximate order of decreasing abundance: epidote, tremolite, actinolite, K-feldspar, garnet and scapolite. These veinlets can be continuous or discontinuous and occasionally have narrow weakly bleached alteration envelopes. Calcite-quartz veinlets crosscut all rock types and occur within all degrees of skarnification. They may represent the late movement of primarily carbonate rich fluids.

Quartz-sulphide veinlets consist predominately of pale grey quartz with trace to minor amounts of calcite, pyrite, pyrrhotite, epidote and fine grained black minerals. Alteration envelopes usually surround these veinlets and consist of a 1 to 3 mm wide inner envelope of pinkish red garnet sometimes rimmed with epidote, which grades into a wider envelope of predominantly mafic skarn minerals, and ultimately outwards into bleached wallrock. In areas with numerous veinlets the peripheral bleaching may become continuous throughout the wallrocks. These veinlets are common in moderately and strongly skarnified rocks but are absent in areas with pervasive or weak skarnification.

Hairline fractures are the most common veinlets in areas of pervasive skarnification. They contain late stage limonite and hematite.

Mineralization in veins developed within fault zones consists of quartz and carbonate minerals with minor sulphides. Where these mineralized faults cut Chitistone limestone, localized replacement zones have been observed and can contain abundant sulphides with gold.

Mineralized zones on the property are described by Copeland et al (1993), Carne (1999), Eaton (2003), Power (2003) and Wengzynowski (2003). Seventeen zones of mineralization (A to Q) have been identified to date (Figure 5). Most contain only skarn related mineralization. Two zones (J and K) consist of quartz-carbonate vein or replacement mineralization without

accompanying skarnification while two others (A and H) exhibit skarn and vein mineralization. Zones A and B are the most advanced targets and the only ones that have been diamond drilled. Most of the other zones have not been mapped in detail nor systematically sampled.

Zones A and B are located immediately east of Miles Creek and south of the Arn Fault. They consist of gold-copper skarn mineralization in Chitistone limestone and Nikolai basalt, which are extensively intruded by KRPS dykes. Both zones are discussed in the Diamond Drilling Section.

Zone C consists of a series of small skarns within and adjacent to a large block of Chitistone limestone intruded by KRPS dykes (Figure 8). The limestone is metamorphosed to marble near dykes. The showings are intensely silicified and limonitic, containing fine grained pyrrhotite and small patches of malachite and azurite. Within the skarnified limestone, pods of coarse crystalline calcite and magnetite are locally developed. Assay results from this zone averaged only 0.16 g/t gold and 0.05% copper (Carne, 1999).

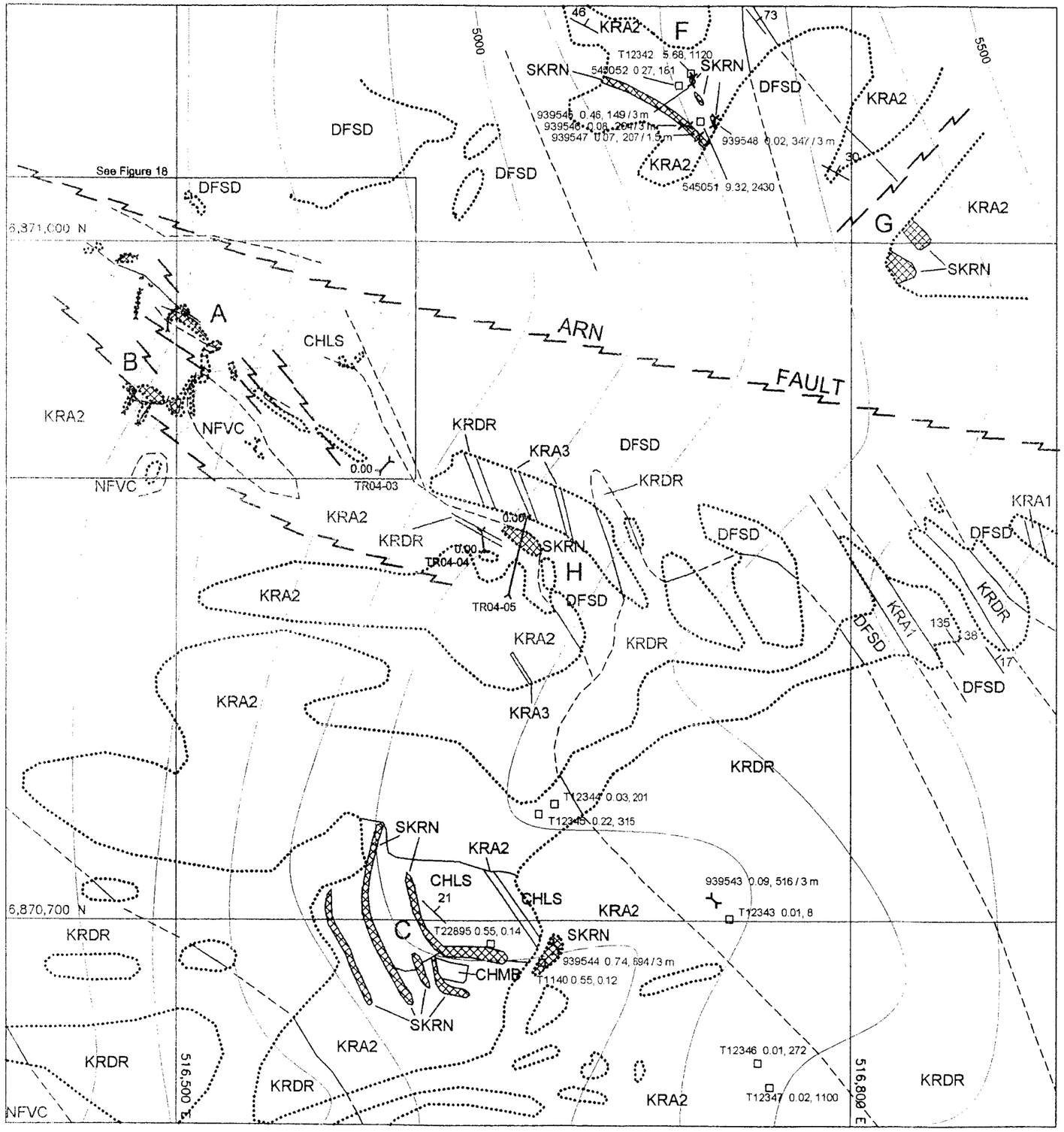
Zones D and E are 500 m southeast and 640 m south-southeast of Zone A, respectively. These zones occur in a largely talus covered area and consist of several small skarn outcrops developed in Chitistone limestone (Figure 9). The skarn zones exhibit intense fracturing, silicification, chloritization and argillic alteration. Fine grained pyrrhotite and minor malachite occur as disseminations and semi massive pods within the skarns. In general, assays were disappointing with most returning less than 0.13 g/t gold and 0.06% copper. The best value came from a 3 m chip sample at Zone D, which assayed 3.29 g/t gold and trace copper (Carne, 1999).

Zone F is located 250 m northeast of Zone A (Figure 8). Skarn related mineralization is present in Dezadeash sediments and KRPS dykes, north of the Arn Fault. A poorly exposed horizon, approximately 10 m thick, varies from magnetite skarn at the base to pyritic skarn at the top of the exposed interval. Specimen samples from this horizon have returned assays up to 9.3 g/t gold and 0.24% copper (Carne, 1999 and Eaton, 2003). Chip sampling in 2003 returned low values to a maximum of 1.17 g/t gold with 0.05% copper across 3.9 m.

Zone G lies about 350 m east of Zone A in a small splay off the Arn Fault. Mineralization consists of pyrite bearing skarn developed in Dezadeash sediments and KRPS dykes or sills. Specimens of skarn returned up to 1.2 g/t gold and 0.02% copper (Carne, 1999). Chip sampling in 2003 returned uniformly low assays.

Zone H is located 210 m southeast of Zone A. It consists of a few small outcrops of pyrrhotite skarn hosted by altered Dezadeash andesites, Dezadeash sediments and KRPS dykes. Bedrock chip samples collected prior to 2004 returned 0.7 g/t gold and 0.16% copper over 2.0 m, and 0.1 g/t gold and 0.84% copper over 0.4 m. Sulphide bearing float specimens taken from a gully approximately 150 m northwest (downslope) assayed up to 0.84% copper and 4.2 g/t gold. In 2004 two trenches were completed across this zone but returned disappointing results (Figure 8). A third trench, roughly halfway between Zones A and H returned up to 0.90 g/t gold and 843 ppm copper from a skarnified KRPS dyke.

Zone I straddles the ridge separating Miles Creek from Sanpete Creek, approximately 1200 m west-northwest of Zone A. Sulphide bearing skarn talus returned assays of 0.77 g/t gold and



2004 TRENCH VALUES

Trench No.	From (m)	To (m)	Sample Interval (m)	Sample No.	Au (g/t)	Cu (ppm)	Fe (%)	Ca (%)
TR04-03	0.00	2.20	2.20	M012268	0.20	578	5.6	2.32
	2.20	4.50	2.30	M012269	0.31	480	4.9	2.07
	4.50	6.20	1.70	M012270	0.11	396	4.5	2.47
	6.20	7.70	1.50	M012271	0.90	843	8.1	2.07
TR04-04	0.00	1.30	1.30	M012272	0.05	671	2.4	2.34
	1.30	4.30	3.00	M012273	0.04	721	7.0	3.34
	4.30	6.40	2.10	M012274	0.05	593	8.3	3.30
	6.40	8.50	2.10	M012275	0.06	745	4.9	2.06
TR04-05	0.00	3.00	3.00	M012276	0.05	144	2.6	4.63
	3.00	9.00	6.00	M012277	0.02	60	1.9	2.77
	9.00	12.00	3.00	M012278	0.05	521	6.0	4.37
	12.00	15.00	3.00	M012279	0.03	274	6.1	4.84
	15.00	18.00	3.00	M012280	0.06	512	6.9	5.68
	18.00	21.00	3.00	M012281	0.08	361	6.4	3.83
	21.00	24.00	3.00	M012282	0.07	387	5.5	2.86
	24.00	27.00	3.00	M012283	0.36	451	4.5	2.11
	27.00	30.00	3.00	M012284	0.09	274	4.5	1.97
	30.00	33.00	3.00	M012285	0.10	344	3.9	1.90
	33.00	36.00	3.00	M012286	0.30	255	7.9	4.58
	36.00	39.00	3.00	M012287	0.18	502	10.8	2.91

T12342 5.68, 1120 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm

939543 0.09, 516 / 3 m — Pre-2004 chip sample location with sample number, gold in g/t, copper in ppm and width in metres

2002 and 2004 drill holes

H — Mineralized zone described in text

High angle fault

Outcrop

Lithological contact, known and inferred

0.00 / TR04-07 — 2004 hand trench

Skarn

SKRN — Skarn

Kluane Range Plutonic Suite

KRDR — Diorite

KRA1 — Porphyry dykes with > 20 % phenocrysts

KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts

KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

DFSD — Mudstone, siltstone and sandstone

DFVC — Andesite to basalt flows, sills

Chitistone Formation

CHLS — Limestone

CHMB — Marble

Nikolai Formation

NFVC — Amygdaloidal basalt

True North
0°13'
28°58'
Grid North
Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet

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FIGURE 8

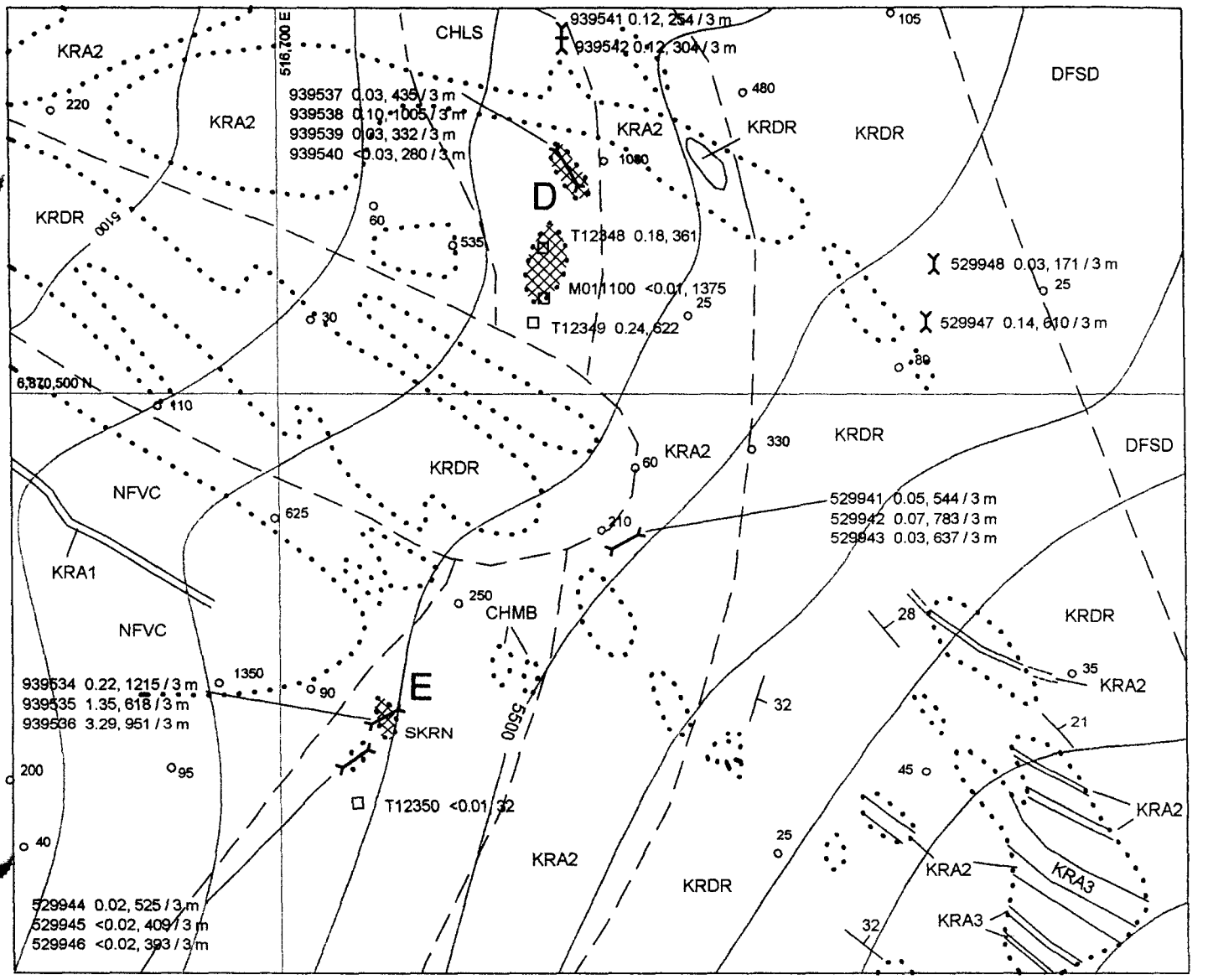
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GEOLOGY ZONES A-C & F-H
ARN PROPERTY

SCALE 1:2000

0 20 40 60 80 100m

DRAFTED/REVISED BY: TCB	PROJ: UTM NAD 27
FILE: ...\FIG 08 - GEOLOGY ZONES A-C & F-H	DATE: JANUARY 2005



Skarn

SKRN — Skarn

Kluane Range Plutonic Suite

KRDR — Diorite

KRA1 — Porphyry dykes with > 20% phenocrysts

KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts

KRA3 — Porphyry dykes with < 3% phenocrysts to aphanitic

Dezadeash Formation

DFSD — Mudstone, siltstone and sandstone

DFVC — Andesite to basalt flows, sills

Chitistone Formation

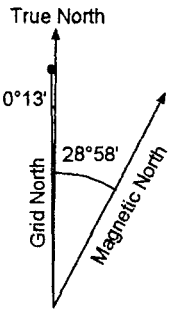
CHLS — Limestone

CHMB — Marble

Nikolai Formation

NFVC — Amygdaloidal basalt

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet



M011536 4.59, 16100 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm

480 — Pre-2004 soil sample location with gold in ppb

939536 3.29, 951 / 3 m — Pre-2004 chip sample location with sample number, gold in g/t and copper in ppm

Outcrop

Lithological contact, known and inferred

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONES D & E
ARN PROPERTY

SCALE 1:2,000

0 20 40 60 80 100m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 09 - GEOLOGY ZONES D & E

DATE: JANUARY 2005

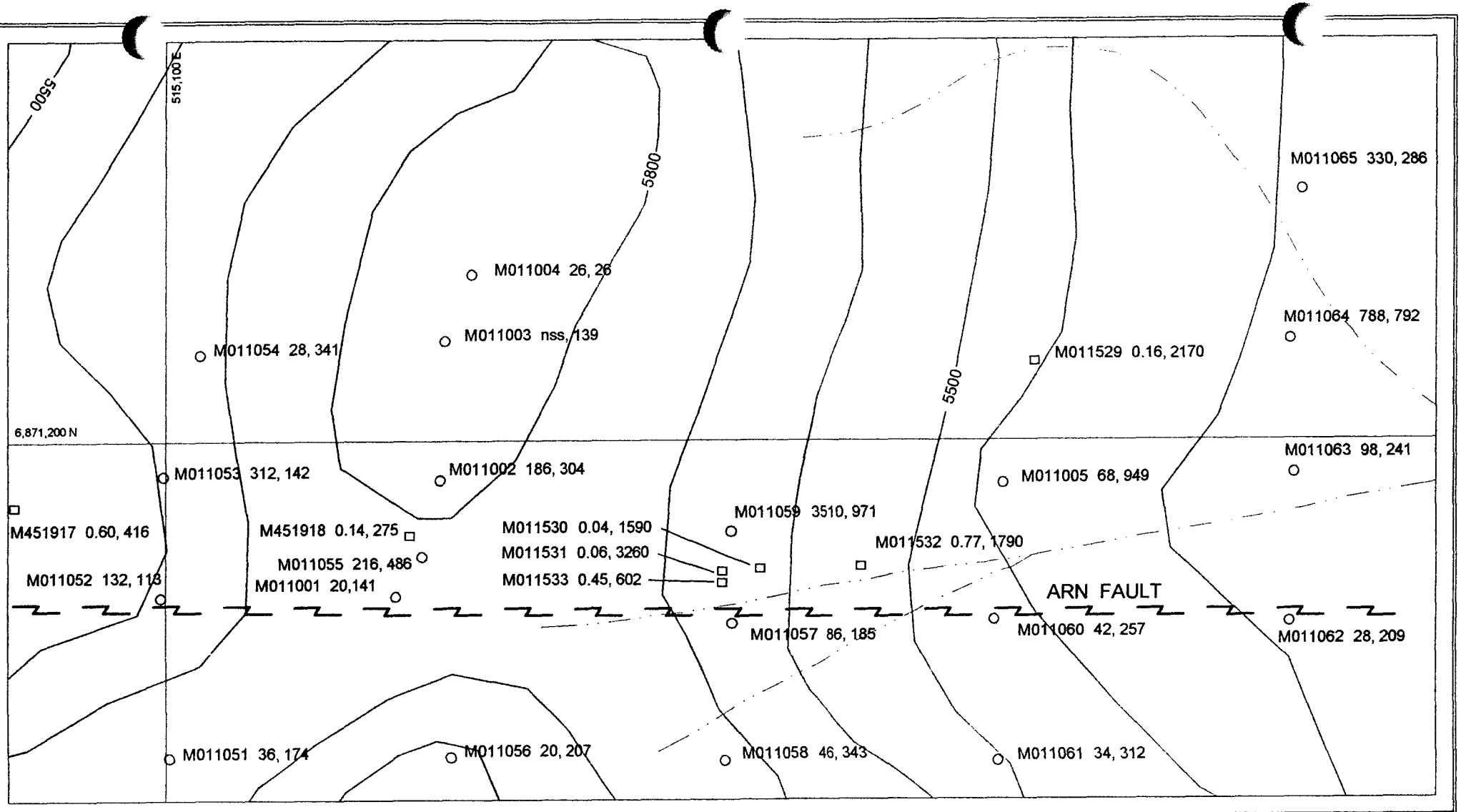
0.18% copper from the best of 10 specimens sampled (Figure 10). Chip samples from two hand trenches dug in 2003 did not expose any sulphide rich skarn and returned low values.

Zone J is located 2100 m west-northwest of Zone A on the west bank of Sanpete Creek. The mineralization lies on the south side of the Sideshow Fault and consists of narrow, lensy quartz-carbonate veins containing disseminated to semi massive pyrite, pyrrhotite, chalcopyrite and magnetite in varying proportions (Figures 11 and 12). The veins cut sheared and locally serpentinized Nikolai basalt. Three specimens collected in 2002 from up to 10 cm wide lenses returned assays ranging from 3.15 to 7.37 g/t gold, 0.17% to 1.64% copper, and 5.7 to 16.5 g/t silver (Eaton, 2003). A 23 m long hand trench dug in 2003 across the Sideshow Fault exposed quartz-carbonate veins up to 4 m wide. Although the veins exhibit fine stringers and disseminations of pyrite, chip samples returned low assays.

Zone K is 2900 m west northwest of Zone A and straddles the Arn Fault. A yellow-brown gossan, approximately 15 m wide, is exposed in a deeply incised gully cutting through glacial deposits and talus. The fault juxtaposes Nikolai basalt to the south against flat lying Chitistone limestone and Dezadeash clastics to the north (Figure 13). In 2003, an 18 m long trench dug most of the way across the zone exposed ankerite- and quartz-replaced limestone containing disseminated and fracture filling chalcopyrite, pyrite, malachite and azurite. Deep, unstable talus stopped the trench about 3 m short of a contact between the replacement mineralization and fractured basalt. Continuous chip samples taken across the southern third of the trench returned a weighted average of 1.74 g/t gold and 1.13% copper across 6.6 m, including 2.07 g/t gold and 1.86% copper from the 1.8 m closest to the contact. In 2004 three hand pits were dug upslope from the 2003 trench. Bedrock was not exposed in the bottom of the trenches and soil samples collected from them returned only weakly anomalous values. A magnetometer survey across the zone produced nearby anomalies that are not explained (see Property Geophysics).

Zone L is located 3200 m west northwest of Zone A in the south-central part of the property. Abundant mineralized float is found in an east-west trending zone extending for 250 m along a grass covered ridge (Figure 14). In fall 2002, six samples of this material were collected and analyzed. Mineralization consists of pyrite, pyrrhotite, chalcopyrite and magnetite occurring as disseminations, fracture filling and centimetre scale breccia zones in skarn and hornfels. Two hornfels specimens were essentially barren but four skarn samples returned from 1.78 to 14.70 g/t gold, 0.07 to 0.63% copper and nil to 9.1 g/t silver (Eaton, 2003). In 2003, the zone was prospected and mapped. There is little outcrop in the area and none of it is mineralized. The float may be glacial and could have come from a cirque further to the west (see Zone M). However, deflection of compasses was noted in 2003 during soil sampling at Zone L and magnetic surveys conducted in 2004 identified linear magnetic highs in this area (see Property Geophysics). These magnetic anomalies may indicate buried mineralization (magnetite- or pyrrhotite-rich). If so, the mineralization could be related to dykes cutting Nikolai basalt similar to those at Zone N to the south.

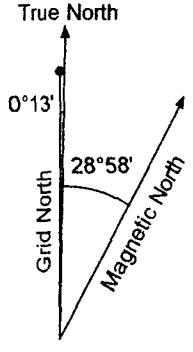
Zone M lies 800 m west of Zone L on the cliff walls of a cirque. Skarn zones are developed in Nikolai basalt alongside 1 to 10 m wide KRPS dykes (Figure 15). These dykes strike south-southeasterly and dip steeply to the west. The width of the skarn zones is usually directly proportioned to the width of the dykes. At least four dykes can be traced intermittently for a



M011536 4.59, 16100 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm

BB28372 0.01, 123 — Pre-2004 soil sample location with sample number, gold in ppb and copper in ppm

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet



KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONE I
ARN PROPERTY

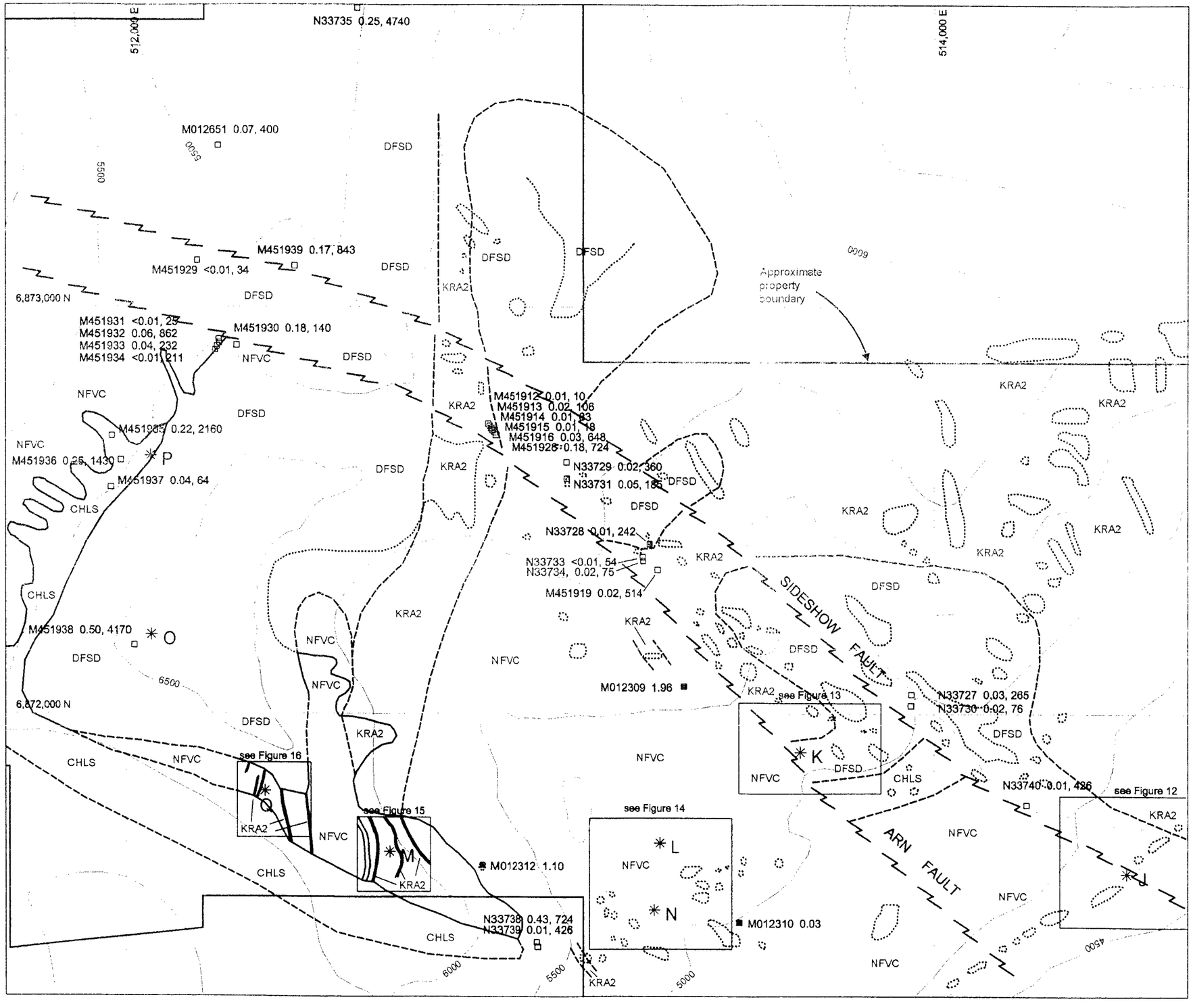
SCALE 1:2,000

0 20 40 60 80 100m

DRAWN/REVISED BY: RCC/TCB

FILE: \FIG 10 - GEOLOGY ZONE I

DATE JANUARY 2005



Skarn

- SKRN — Skarn
- Ferricrete

Kluane Range Plutonic Suite

- KRDR — Diorite
- KRA1 — Porphyry dykes with > 20 % phenocrysts
- KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts
- KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

- DFSD — Mudstone, siltstone and sandstone
- DFVC — Andesite to basalt flows and sills

Chitistone Formation

- CHLS — Limestone
- CHMB — Marble

Nikolai Formation

- NFVC — Amygdaloidal basalt

N33736, 14.15, 4561 — Pre-2004 rock sample with sample number, gold in g/t and copper in ppm

M012313, 0.15 — 2004 rock sample with sample number and gold in g/t

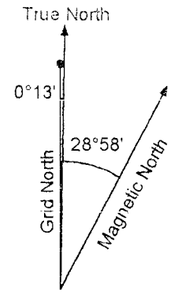
Outcrop

High angle fault

Lithological contact, known and inferred

✳P — Zone of mineralization

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 500 feet



KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONES J-Q
ARN PROPERTY

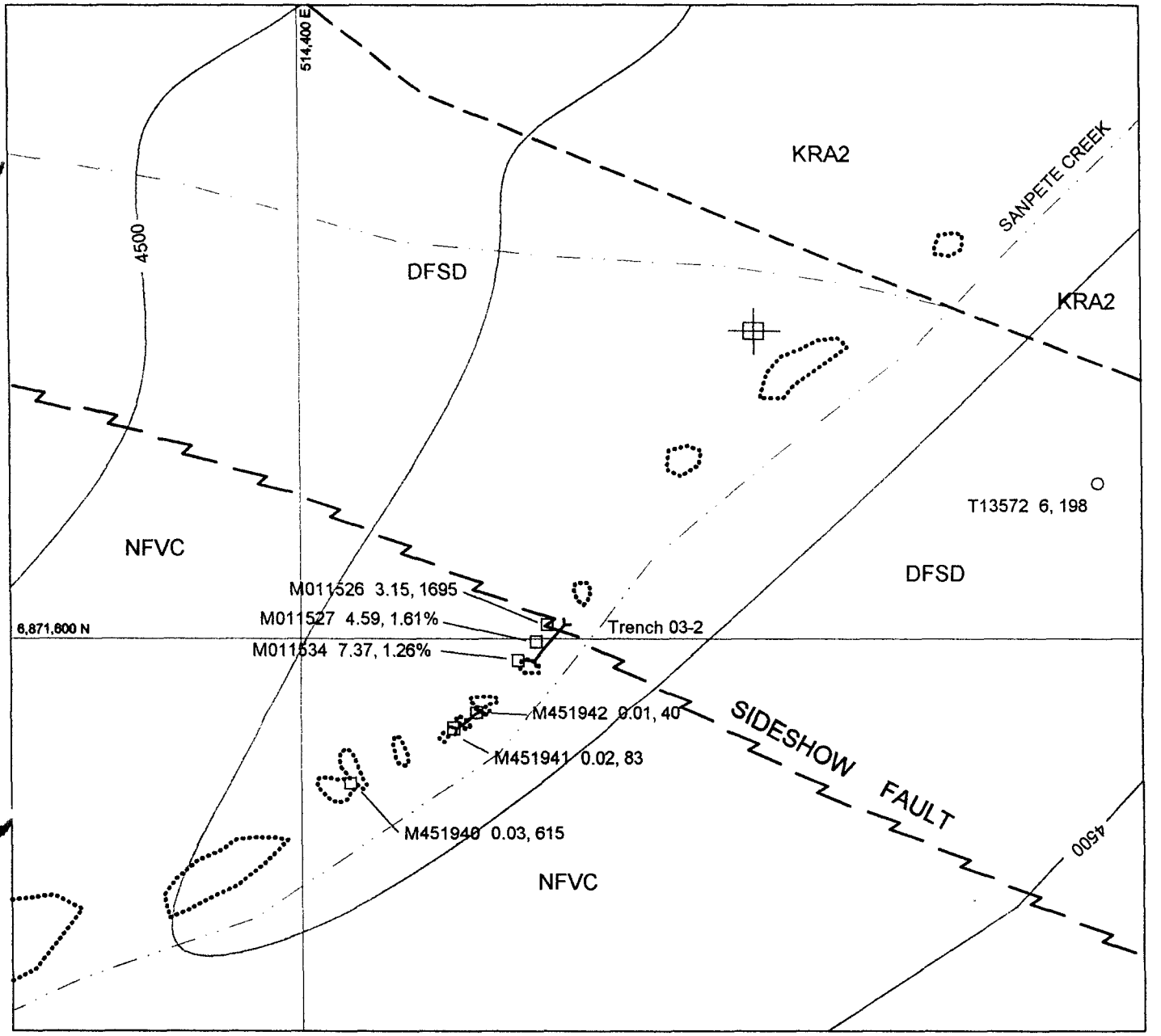
SCALE 1:1000

0 100 200 300 400 500m

DRAFTED/REVISED BY TCB

FILE: \FIG 11 - GEOLOGY ZONES J-Q

DATE: JANUARY 2005



Skarn

- SKRN — Skarn
- Ferricrete

Kluane Range Plutonic Suite

- KRDR — Diorite
- KRA1 — Porphyry dykes with > 20% phenocrysts
- KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts
- KRA3 — Porphyry dykes with < 3% phenocrysts to aphanitic

Dezadeash Formation

- DFSD — Mudstone, siltstone and sandstone
- DFVC — Andesite to basalt flows and sills

Chitistone Formation

- CHLS — Limestone
- CHMB — Marble

Nikolai Formation

- NFVC — Amygdaloidal basalt

- M011536 4.59, 16100 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm
- BB28372 0.01, 145 — Pre-2004 soil sample location with sample number, gold in g/t and copper in ppm
- Hand trench
- Outcrop
- Claim post location

True North
0°13'
28°58'
Grid North
Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet

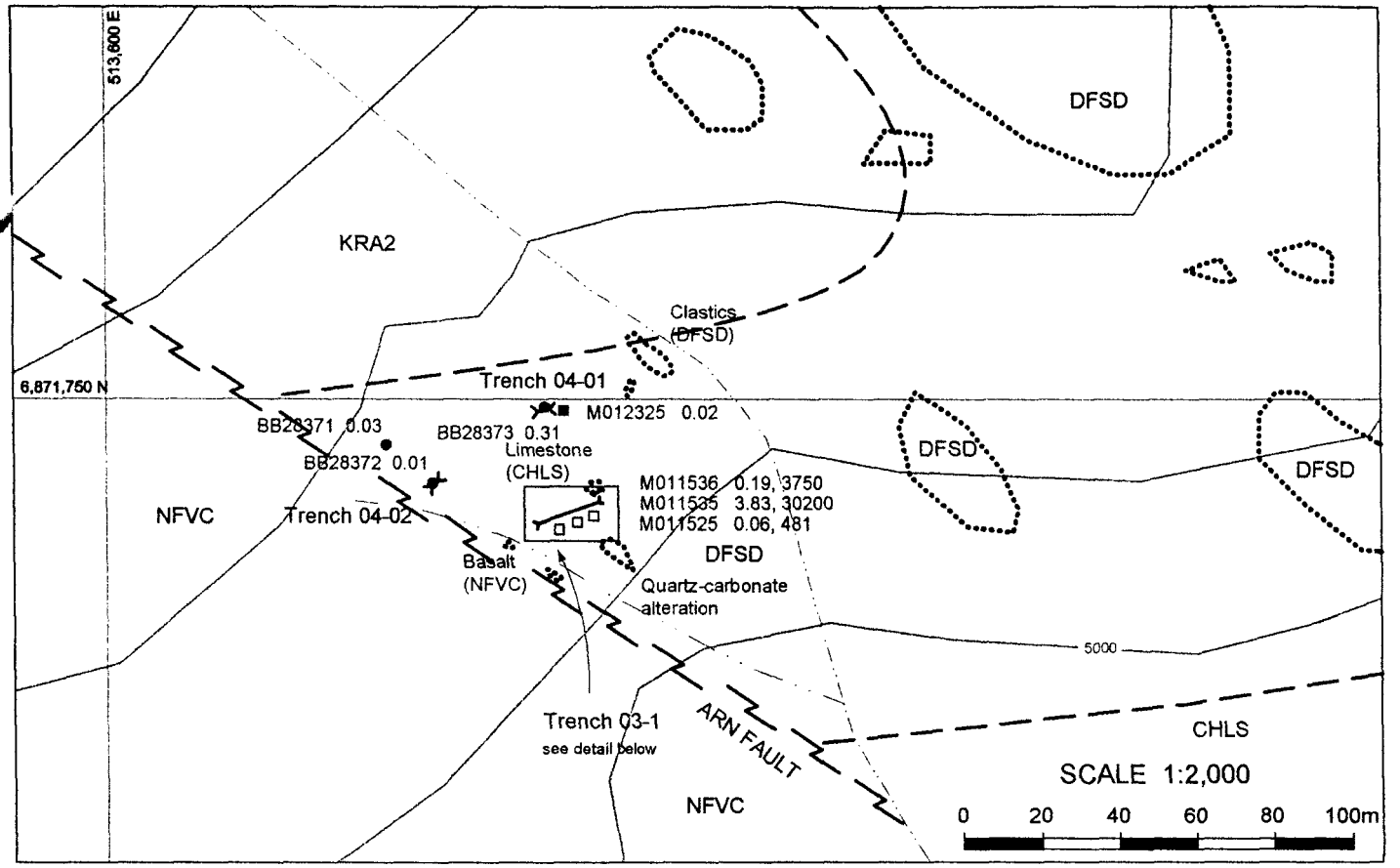
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

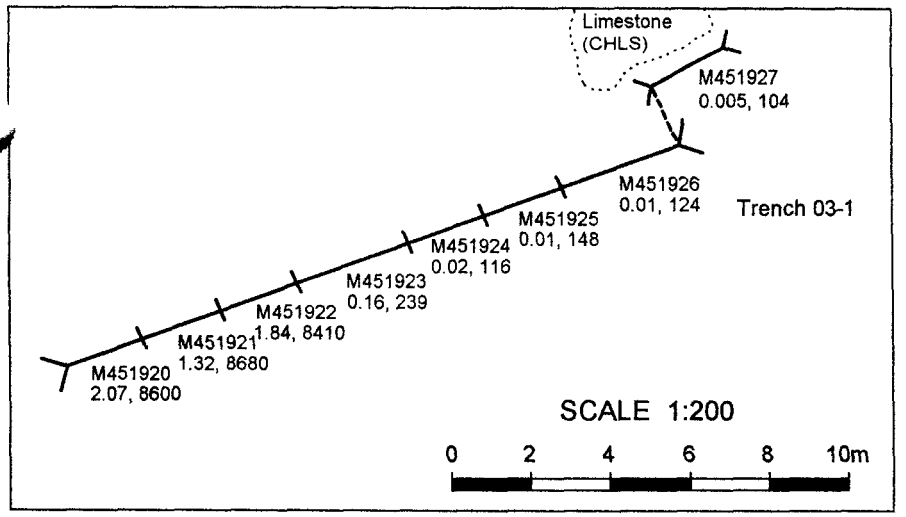
FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONE J
ARN PROPERTY

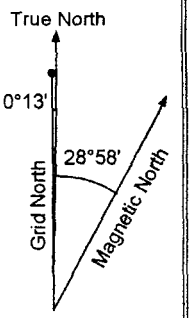
SCALE 1:2,000
0 20 40 60 80 100m

DRAWN\REVISED BY: TCB
FILE: ...\FIG 12 - GEOLOGY ZONE J
DATE: JANUARY 2005





NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet



Hand trench

Outcrop

M451921 1.32, 8680 — Chip sample location with sample number, gold in g/t and copper in ppm

M011536 4.59, 16100 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm

M011536 4.75 — 2004 rock sample location with sample number and gold in g/t

BB28372 0.01 — 2004 soil sample location with sample number and gold in g/t

Skarn

SKRN — Skarn

Ferricrete

Kluane Range Plutonic Suite

KRDR — Diorite

KRA1 — Porphyry dykes with > 20 % phenocrysts

KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts

KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

DFSD — Mudstone, siltstone and sandstone

DFVC — Andesite to basalt flows and sills

Chitistone Formation

CHLS — Limestone

CHMB — Marble

Nikolai Formation

NFVC — Amygdaloidal basalt

KLONDIKE GOLD CORP.
ATAC RESOUCES LTD.

FIGURE 13

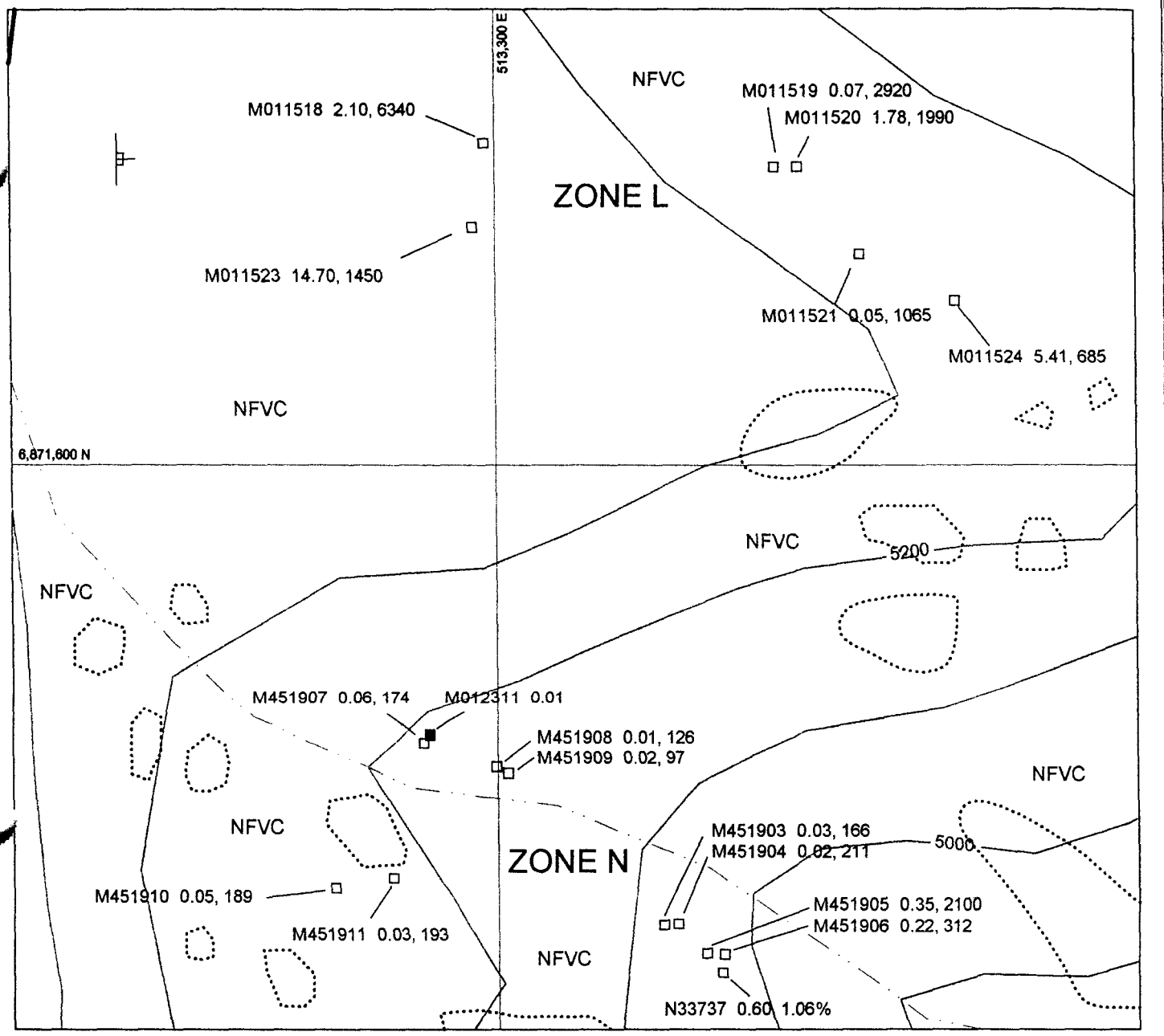
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONE K
ARN PROPERTY

DRAWN\REVISED BY: DJT/TCB

FILE: ...\FIG 13 - GEOLOGY ZONE K

DATE: JANUARY 2005



Skarn

SKRN — Skarn

Ferricrete

Kluane Range Plutonic Suite

KRDR — Diorite

KRA1 — Porphyry dykes with > 20% phenocrysts

KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts

KRA3 — Porphyry dykes with < 3% phenocrysts to aphanitic

Dezadeash Formation

DFSD — Mudstone, siltstone and sandstone

DFVC — Andesite to basalt flows and sills

Chitistone Formation

CHLS — Limestone

CHMB — Marble

Nikolai Formation

NFVC — Amygdaloidal basalt

M011536 4.59, 16100 — Pre-2004 rock sample location with sample number, gold in g/t and copper in ppm

M012311 1.25 — 2004 rock sample location with sample number and gold in g/t

Claim post location

True North

0°13'

28°58'

Grid North

Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 100 feet

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONES L & N
ARN PROPERTY

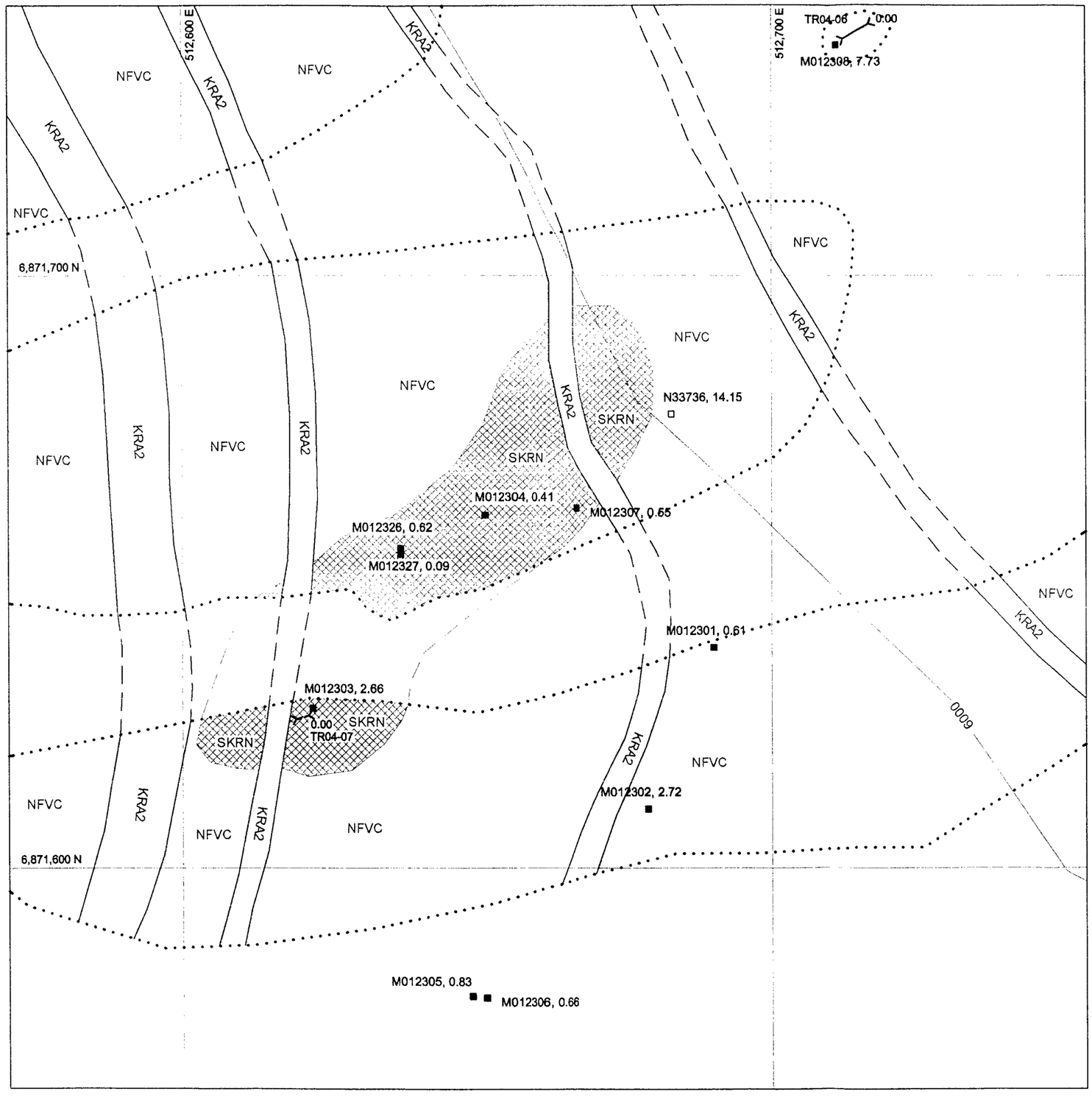
SCALE 1:2,000

0 20 40 60 80 100m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 14 - GEOLOGY ZONE L & N

DATE: JANUARY 2005



2004 TRENCH ASSAYS

Trench No.	From (m)	To (m)	Sample Interval (m)	Sample No.	Au (g/t)	Cu (ppm)	Fe (%)	Ca (%)
TR04-06	0.00	5.00	5.00	M011841	0.52	664	4.5	1.86
TR04-07	0.00	2.20	2.20	M011842	1.26	3110	8.8	3.03

Skarn

- SKRN — Skarn
- Ferricrete

Kluane Range Plutonic Suite

- KRDR — Diorite
- KRA1 — Porphyry dykes with > 20 % phenocrysts
- KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts
- KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

- DFSD — Mudstone, siltstone and sandstone
- DFVC — Andesite to basalt flows, sills

Chitistone Formation

- CHLS — Limestone
- CHMB — Marble

Nikolai Formation

- NFVC — Amygdaloidal basalt

N33736, 14.15 — Pre-2004 rock sample with sample number and gold in g/t

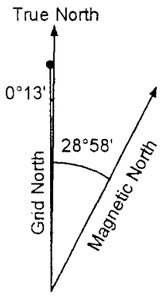
M012313, 0.15 — 2004 rock sample with sample number and gold in g/t

Outcrop

Extent of sulphide skarn, known and inferred

Lithological contact, known and inferred

0.00 / TR04-07 — 2004 hand trench



NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONE M
ARN PROPERTY

SCALE 1:750

0 10 20 30 40 50m

DRAFTED/REVISED BY: TCB	PROJ: UTM NAD 27
FILE: ..\FIG 15 - GEOLOGY ZONE M	DATE: JANUARY 2005

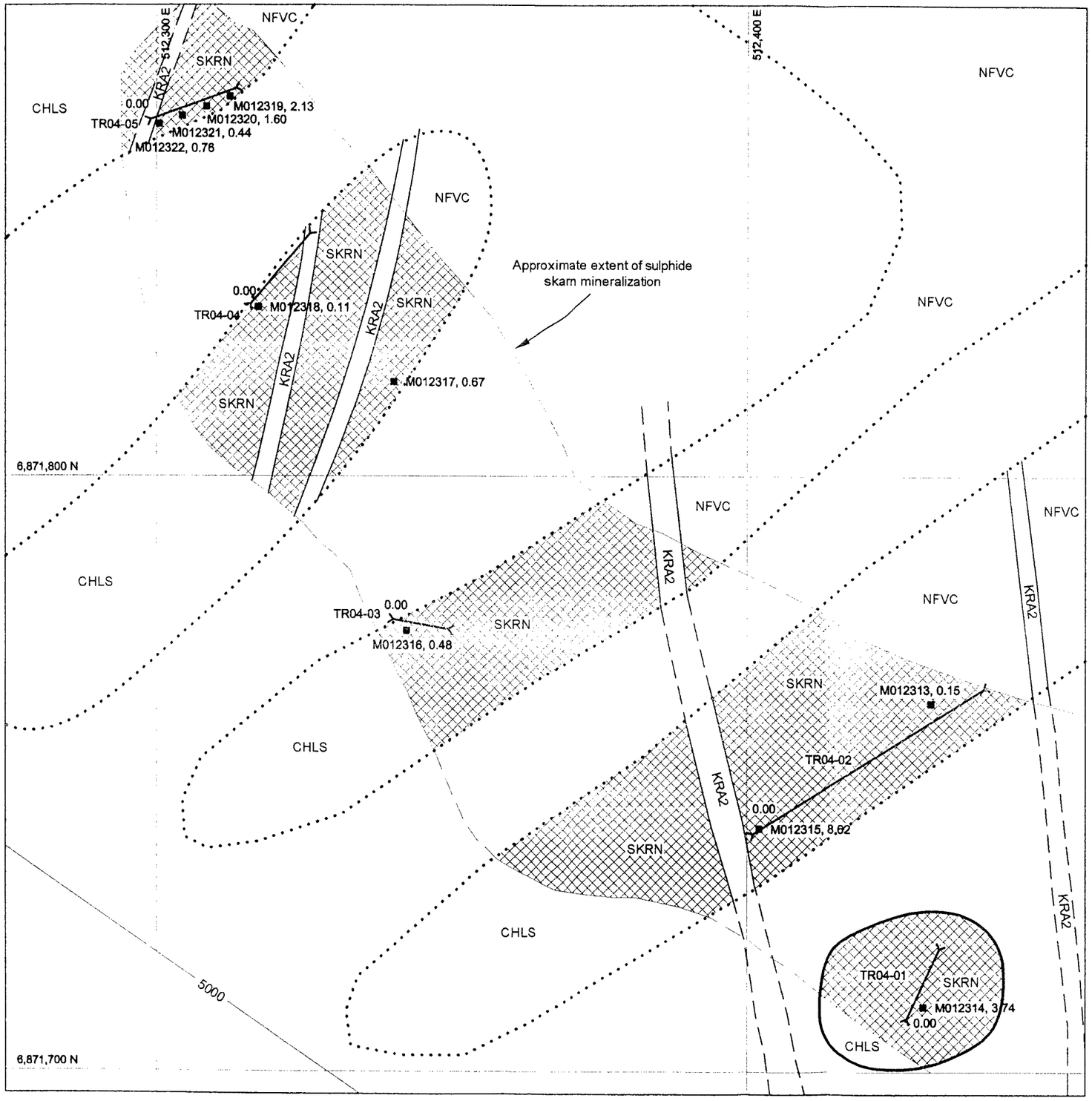
length of more than 1000 m. Where they project into limestone south of the property they form epidote-pyrite skarns that yielded low gold values (Eaton and Nelson, 1982). To the north, where the dykes cut Dezadeash clastic sediments, there is little skarnification around them. Within the Nikolai basalts, the skarns are mostly garnet with varying amounts of pyrrhotite, chalcopyrite, pyrite and magnetite. In 2003 one specimen sample was collected and returned 14.15 g/t gold and 0.90% copper. In 2004 eight specimens were collected in this zone and they returned an average of 1.92 g/t gold with a peak value of 7.73 g/t gold. Two chip samples were taken across small outcrops that were extended by short trenches into thick talus. One exposure (TR04-06) returned 0.51 g/t gold and 0.07% copper over 5 m and the other (TR04-07) yielded 1.26 g/t gold and 0.31% copper over 2.2 m. Magnetometer surveys were conducted in 2004 along strike to the north of Zone M and identified moderate to strong positive anomalies that likely represent buried skarn zones (see Property Geophysics).

Zone N lies about 300 m south of Zone L along the southern property boundary. It encompasses an approximately 500 m diameter area of strongly gossanous fractured, brecciated and locally skarnified Nikolai basalt, that is cut by numerous narrow diorite dykes (Figure 14). The fractures and breccia matrix are filled with limonite boxwork surrounding residual pyrrhotite and pyrite. Disseminated sulphides also occur within the skarnified volcanics. Lenses of massive pyrrhotite up to 4 m long and 1.5 m wide are locally developed within the zone. Several chip samples taken from various exposures all returned low values with maximums of 0.347 g/t gold and 0.21% copper.

Zone O lies about 800 m northwest of Zone M and covers a series of skarns developed around narrow dykes cutting Chitistone limestone. The skarns are generally garnet- or magnetite-rich. Only one specimen was collected and it returned 0.504 g/t gold with 0.42% copper.

Zone P is in the western part of the claim block, about 4800 m west-northwest of Zone A and 800 m north of Zone O. Here, several narrow andesite or diorite dykes cut through a thick section of Chitistone limestone forming prominent skarn zones. Although the dominant skarn assemblages are garnet and epidote, minor pyrite, magnetite and actinolite-calcite-chlorite lenses are also present. Disseminated chalcopyrite is locally abundant but pyrrhotite is rare. A few specimens sampled in 2003 returned low gold and copper values (up to 0.252 g/t and 0.22%, respectively). Previous sampling in this area returned similar values (Eaton and Nelson, 1982). Most skarns in this zone are 1 to 2 m thick but some range up to 10 m thick. The thickness of the skarns appears to be directly proportional to the thickness of the associated dykes.

Zone Q was discovered in 2004 and lies 350 m west of Zone M on the south side of the same ridge. It consists of skarn zones developed along the contact between a large body of Chitistone limestone and Nikolai basalt, both of which are cut by at least five KRPS porphyry dykes (Figures 16 and 17). The dominant skarn assemblage is garnet-epidote with minor calcite, magnetite, pyrite, pyrrhotite and chalcopyrite. Most exposures are strongly weathered and contain boxwork limonite. Some marble and silicified rocks were noted during mapping. Sampling was done across five exposures within an area 200 m long and up to 65 m wide. In June, ten rock specimens or short chip samples were collected from this area and returned an average grade of 1.87 g/t gold with a peak of 8.62 g/t gold. In August, a series of hand trenches were dug to connect outcrops and the resulting continuous exposures were chip sampled over



Skarn

- SKRN — Skarn
- Ferricrete

Kluane Range Plutonic Suite

- KRDR — Diorite
- KRA1 — Porphyry dykes with > 20 % phenocrysts
- KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts
- KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

- DFSD — Mudstone, siltstone and sandstone
- DFVC — Andesite to basalt flows, sills

Chitistone Formation

- CHLS — Limestone
- CHMB — Marble

Nikolai Formation

- NFVC — Amygdaloidal basalt

M012313, 0.15 — Rock sample with sample number and gold in g/t

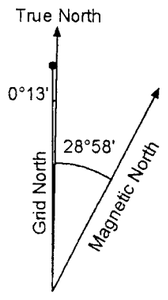
Outcrop

Extent of sulphide skarn, known and inferred

Lithological contact, known and inferred

TR04-07 0.00 — 2004 hand trench

For trench results see Figure 17



NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONE Q
ARN PROPERTY

SCALE 1:750

0 10 20 30 40 50m

DRAFTED/REVISED BY: TCB	PROJ: UTM NAD 27
FILE: ...\FIG 16 - GEOLOGY ZONE Q	DATE: JANUARY 2006

2004 TRENCH RESULTS

Trench No.	From (m)	To (m)	Sample Interval (m)	Sample No.	Au (g/t)	Cu (ppm)	Fe (%)	Ca (%)
TR04-01	0.00	4.00	4.00	M011812	0.40	2460	7.9	9.26
	4.00	8.00	4.00	M011813	0.18	3240	12.2	5.14
	8.00	12.00	4.00	M011814	0.45	1325	15.0	1.26
	12.00	13.00	1.00	M011815	0.04	860	9.3	10.15
TR04-02	0.00	4.00	4.00	M011816	3.23	2220	4.93	1.92
	4.00	8.00	4.00	M011817	2.83	1515	22.0	12.40
	8.00	12.00	4.00	M011818	0.49	320	6.2	4.09
	12.00	16.00	4.00	M011819	0.54	654	4.2	2.23
	16.00	20.00	4.00	M011820	0.44	370	5.8	4.06
	20.00	24.00	4.00	M011821	0.46	245	5.0	3.24
	24.00	28.00	4.00	M011822	0.45	320	11.6	6.85
	28.00	32.00	4.00	M011823	0.16	169	8.0	4.83
	32.00	36.00	4.00	M011824	0.28	305	11.2	5.65
	36.00	40.00	4.00	M011825	0.36	415	6.9	3.40
	40.00	44.00	4.00	M011826	0.11	509	7.0	7.01
	44.00	46.00	2.00	M011827	0.20	152	4.2	4.68
TR04-03	0.00	4.00	4.00	M011828	0.11	502	12.2	1.74
	4.00	8.00	4.00	M011829	0.27	678	12.1	2.15
	8.00	9.50	1.50	M011830	0.08	172	5.2	5.80
TR04-04	0.00	1.50	1.50	M011831	0.02	1160	7.6	>25.00
	1.50	5.50	4.00	M011832	0.61	2550	40.3	2.77
	5.50	9.50	4.00	M011833	1.47	461	9.8	3.08
	9.50	13.50	4.00	M011834	0.61	356	10.8	5.53
	13.50	15.50	2.00	M011835	1.46	894	23.4	3.52
TR04-05	0.00	0.80	0.80	M011836	2.46	1150	18.8	1.46
	0.80	4.80	4.00	M011837	2.22	412	8.7	1.76
	4.80	8.80	4.00	M011838	0.42	159	6.4	6.23
	8.80	12.80	4.00	M011839	1.47	2980	30.2	2.63
	12.80	15.50	2.70	M011840	2.46	965	35.9	1.21

KLONDIKE GOLD CORP.
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FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH RESULTS ZONE Q
ARN PROPERTY

DRAWN/REVISED BY: TCB

FILE: ..\ FIG 17 - TRENCH RESULTS ZONE Q

DATE: JANUARY 2005

lengths ranging from 9.5 to 46 m (Figure 16). Individual chip samples were between 0.8 and 4.0 m long. Nearly all skarn samples returned elevated gold and copper values (Figure 17). The lowest values came from TR04-03 which is almost perpendicular to the other trenches and slightly off the mineralized trend.

TABLE III
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
TR05-05	15.5	1.62	0.11

Mapping suggests that the gold bearing, sulphide rich skarn bands are about two to three times wider than the accompanying dykes. A shell of garnet-epidote skarn surrounds the sulphide rich skarn.

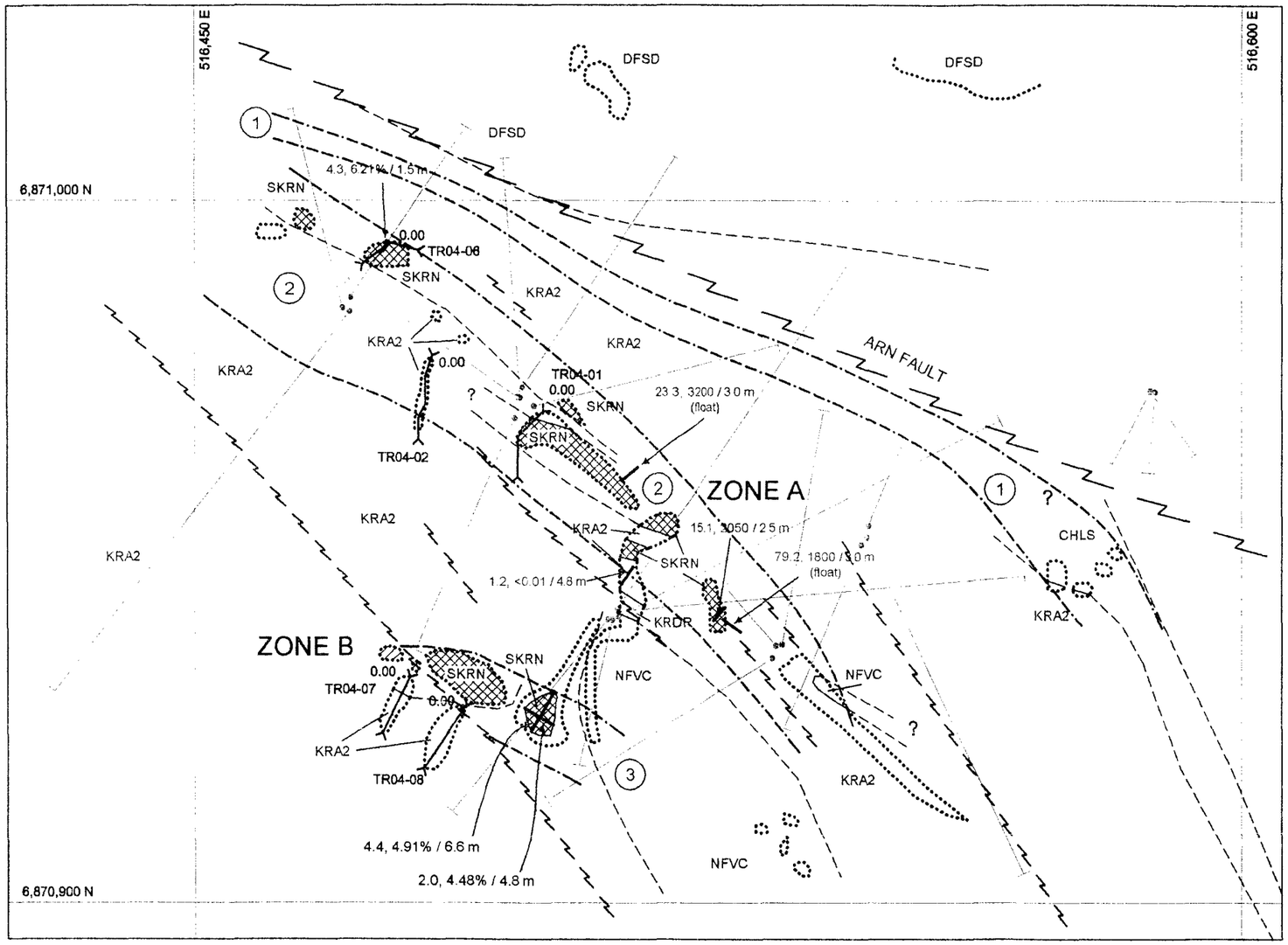
In summary, surface showings identified to date on the Arn property consist of gold and/or copper skarn and vein mineralization. The most advanced targets are Zones A and B where trenching and diamond drilling have been conducted. The remaining occurrences have not been systematically explored.

DIAMOND DRILLING

In 2002 four drill holes (181.67 m) were completed on the Arn property at Zones A and B and in 2004 another 18 holes (1003.72 m) were completed in this same area. Drill results are discussed in the following pages. Figures 18 to 20 illustrate the location of drill holes, Figures 21 to 30 show geological cross sections and Figures 31 to 40 show cross sections with gold values.

The 2004 drill program was conducted from a ten person camp located immediately downhill from Zones A and B. Camp and drill mobilization and demobilization plus some drill moves were done with a Bell 206 B Jet Ranger operated by Trans North Helicopters from its base at Haines Junction. All drill and camp equipment were removed from the property. The work was done under terms set out in Class III Permit LQ00101.

Diamond drilling was contracted to E. Caron Diamond Drilling Ltd. of Whitehorse. It was done with a custom made, hand portable drill using B thin wall (BTW) equipment. The holes were drilled from five different drill pads. Several drill rotations and three drill moves were done by hand. Only one move required helicopter support. Generally the drilling conditions were good but holes Arn –17, -18 and -19 were abandoned at shallow depths due to excessive overburden thickness. All drill core was geotechnically and geologically logged and split near the area of diamond drilling. At the end of the program the core was flown to the valley bottom and stored on wooden timbers.



2004 TRENCH VALUES

Trench No.	From (m)	To (m)	Sample Interval (m)	Sample No.	Au (g/t)	Cu (ppm)	Fe (%)	Ca (%)
TR04-01	0.00	3.00	3.00	M012912	0.02	20	4.6	2.64
	3.00	4.30	1.30	M012913	0.05	8	18.5	7.71
	4.30	6.30	2.00	M012914	0.07	137	21.6	4.35
	6.30	9.30	3.00	M012915	0.04	555	25.6	5.96
	9.30	11.20	1.90	M012916	0.02	292	17.2	8.14
TR04-02	0.00	2.00	2.00	M012263	0.01	79	8.8	2.12
	2.00	5.00	3.00	M012264	0.05	185	28.5	2.98
	5.00	8.20	3.20	M012265	<0.01	44	6.8	2.45
	8.20	10.70	2.50	M012266	<0.01	34	4.1	1.51
	10.70	13.11	2.41	M012267	0.02	71	5.9	3.09
TR04-06	2.10	3.80	1.70	M012969	6.02	31500	26.1	2.50
	3.80	5.50	1.70	M012970	1.97	28800	11.0	7.17
	5.50	7.50	2.00	M012971	2.11	5650	17.7	2.84
TR04-07	0.00	3.50	3.50	M012972	0.24	1715	26.1	0.70
	3.50	5.75	2.25	M012973	0.04	228	11.0	2.03
	5.75	8.00	2.25	M012974	0.15	644	17.7	2.50
TR04-08	0.00	2.50	2.50	M012975	0.05	1370	17.7	3.11
	2.50	5.00	2.50	M012976	0.33	652	26.1	1.01
	5.00	7.50	2.50	M012977	0.41	1500	11.0	2.08
	7.50	10.00	2.50	M012978	0.02	236	17.7	1.63

2002 and 2004 drill holes

High angle fault

Outcrop

Mineralized band discussed in text, with approximate contact

Lithological contact, known and inferred

0.00
TR04-07
2004 hand trench, with trench number and survey point at beginning of trench

Chip sample from hand trench or float sample with significant results from previous exploration programs. Gold in g/t, copper in ppm and sample width.

4.4, 1800 / 6.6 m

Skarn

SKRN — Skarn

Ferricrete

Kluane Range Plutonic Suite

KRDR — Diorite

KRA1 — Porphyry dykes with > 20 % phenocrysts

KRA2 — Porphyry dykes with > 3 but < 20% phenocrysts

KRA3 — Porphyry dykes with < 3 % phenocrysts to aphanitic

Dezadeash Formation

DFSD — Mudstone, siltstone and sandstone

DFVC — Andesite to basalt flows, sills

Chitistone Formation

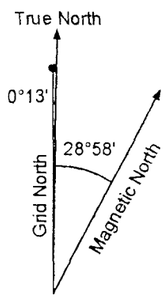
CHLS — Limestone

CHMB — Marble

Nikolai Formation

NFVC — Amygdaloidal basalt

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927



KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY ZONES A-B
ARN PROPERTY

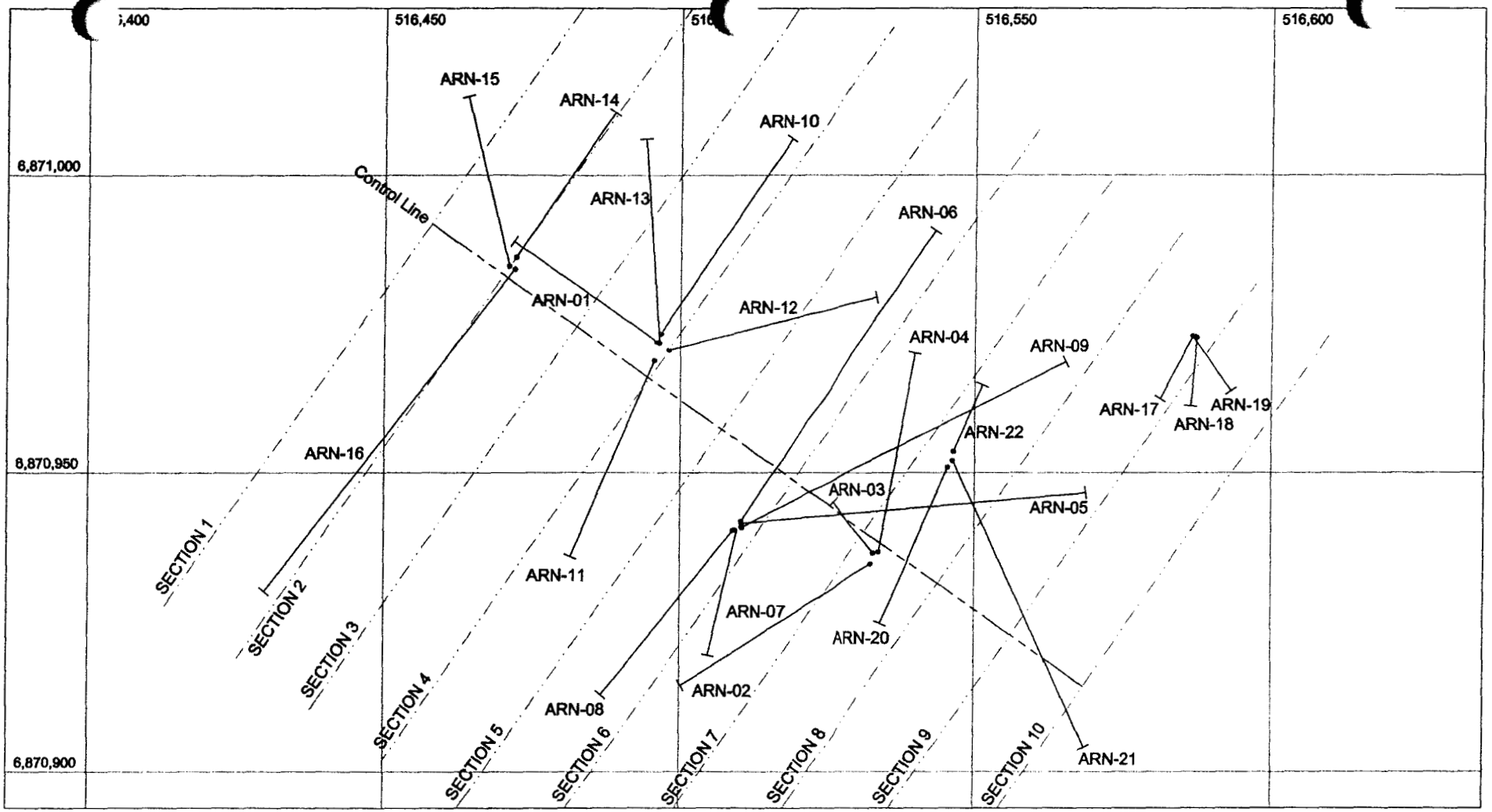
SCALE 1:750

0 10 20 30 40 50m

DRAFTED/REVISED BY TCB

FILE: ...\FIG 18 - GEOLOGY ZONES A-B

DATE: JANUARY 2005

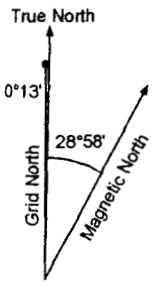


Drill sections orientated 035°

15 m spacing between section lines

7.5 m on either side of section line included in each section

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927



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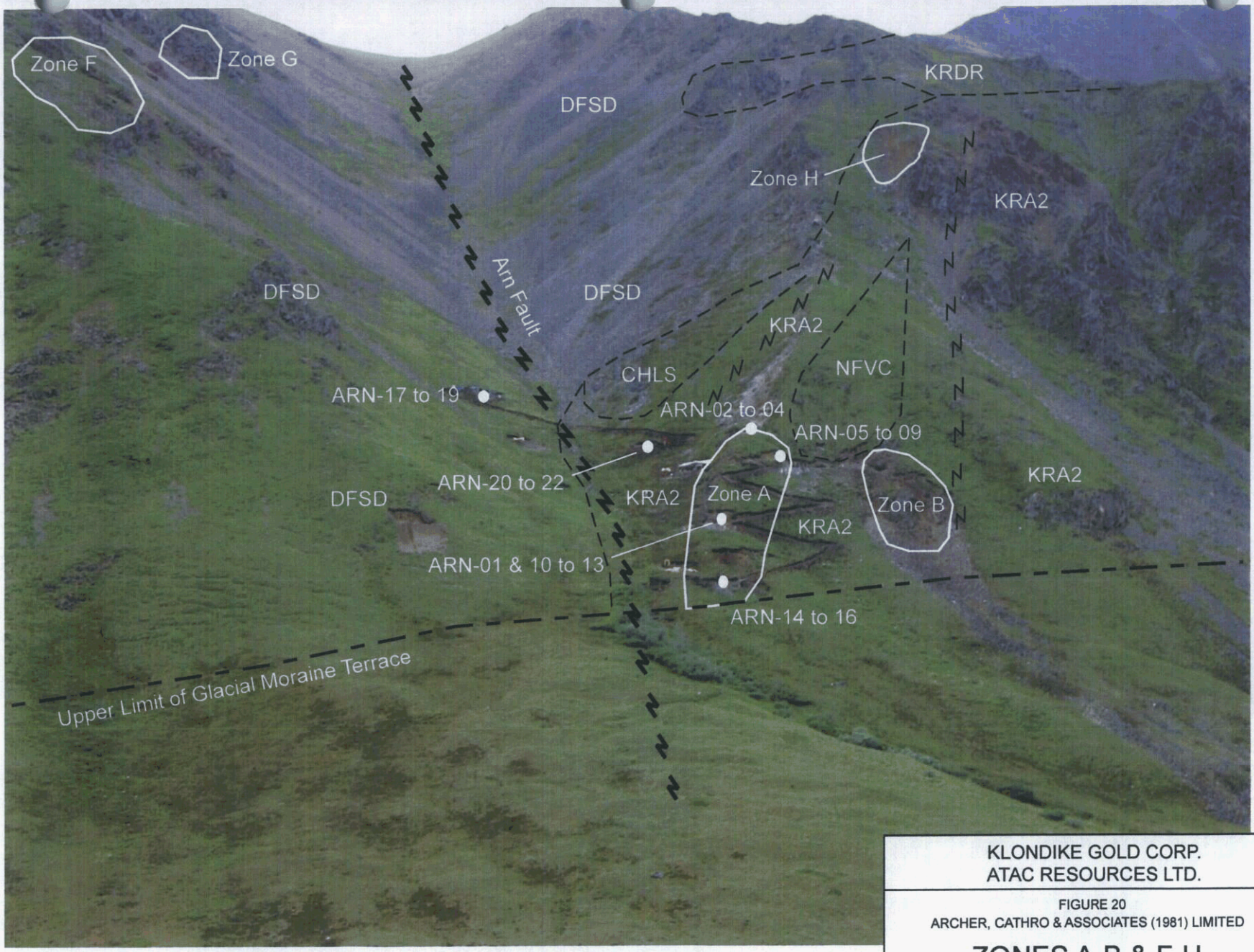
FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DRILL PLAN
ARN PROPERTY

0 15 30 45 60 75 m

DRAWN\REVISED BY: TCB	PROJECTION: NAD 27
FILE: ...\FIG - 19 - DRILL PLAN	DATE: JANUARY 2005



Photograph taken from west side of Miles Creek
Looking east toward area of 2002 and 2004 diamond drilling

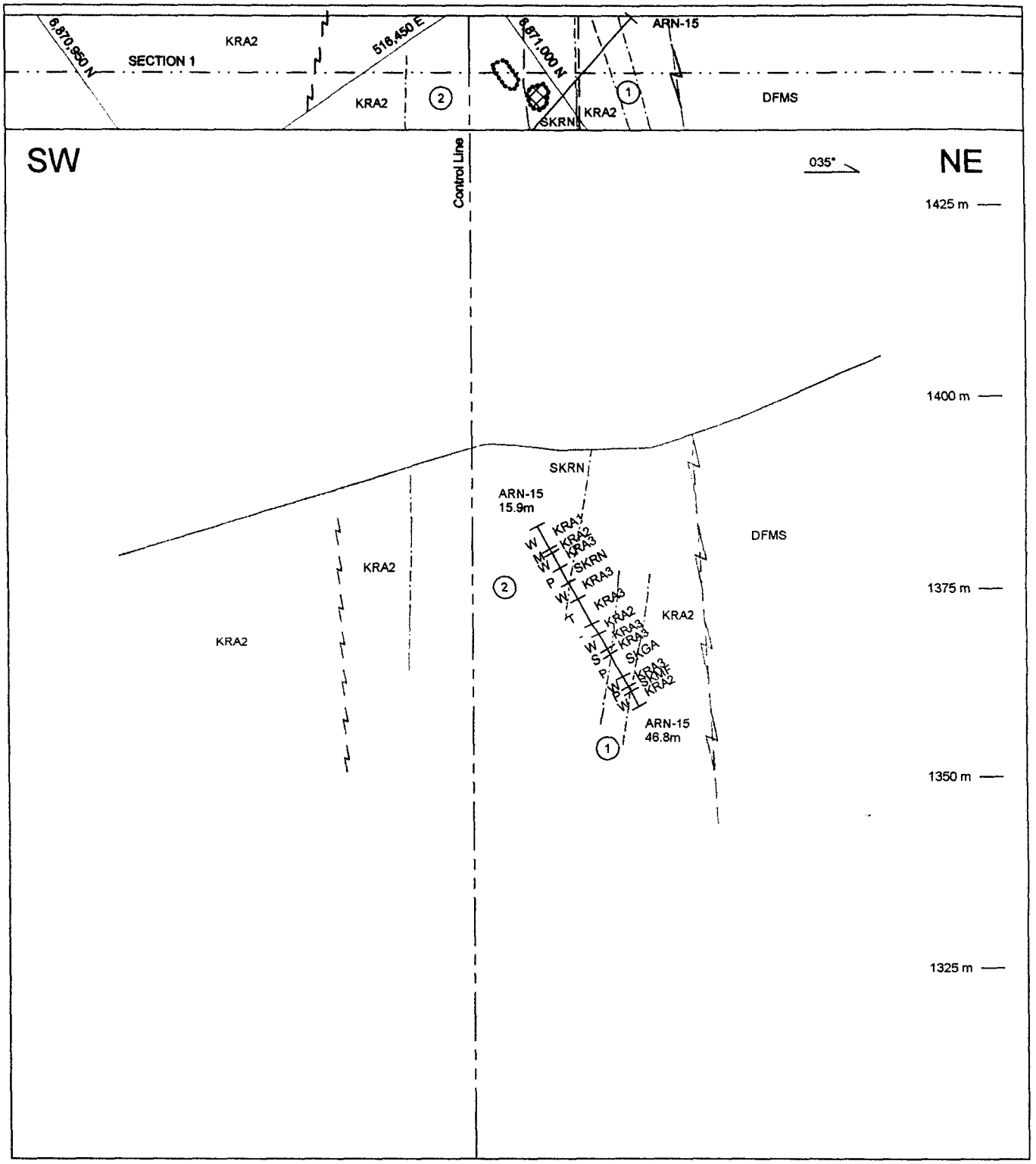
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 20
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZONES A-B & F-H

ARN PROPERTY

DRAFTED/REVISED BY: TCB	
FILE: ...\FIG 10 - ZONES A-B & F-H	DATE: JANUARY 2005

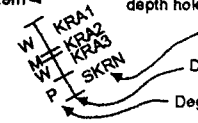


-	Absent
T	Trace
W	Weak
M	Moderate
S	Strong
P	Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonic Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section



High angle fault
Outcrop
Lithological contact

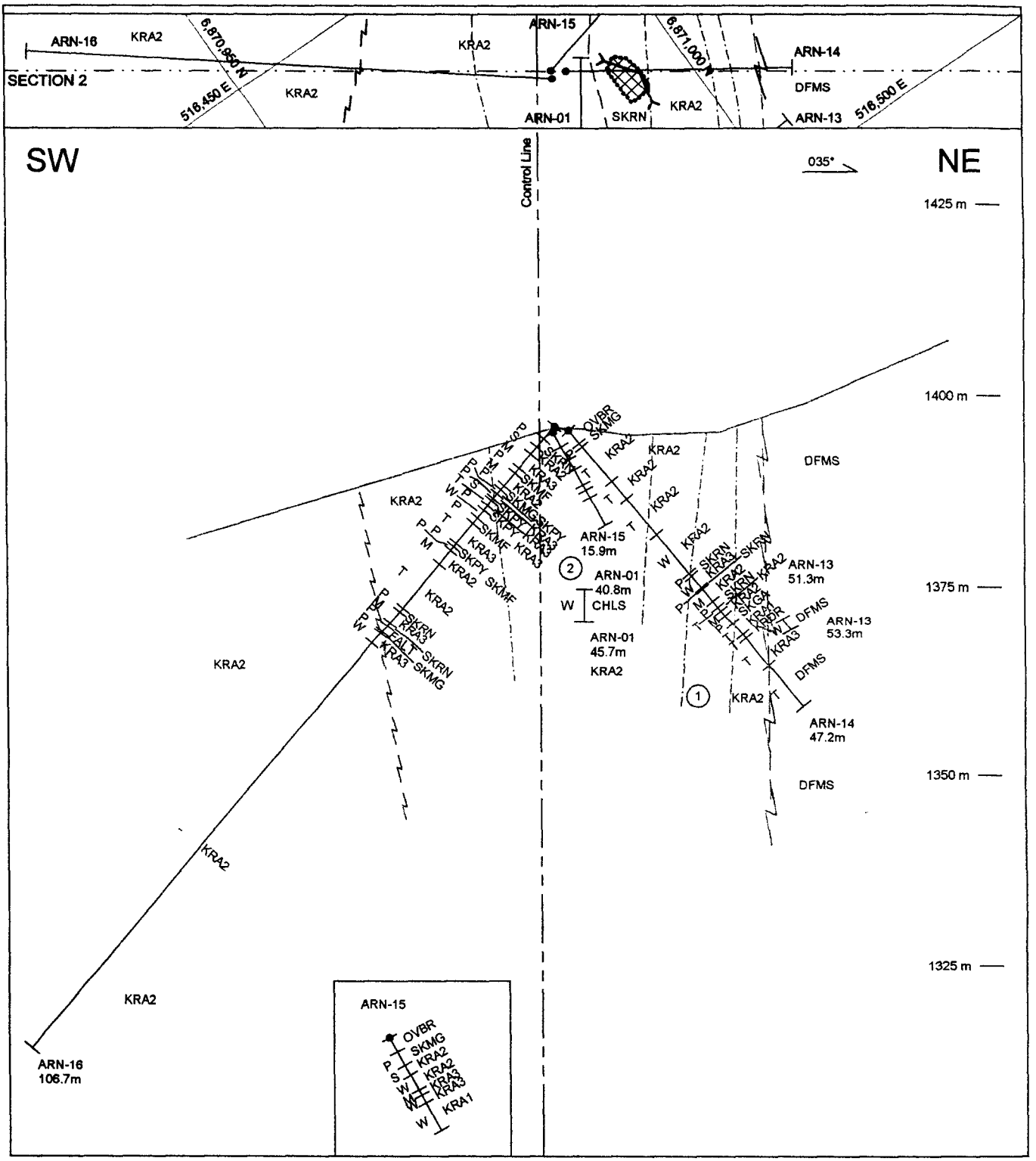
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 21
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB	
FILE: ...\FIG 21 - SECTION 1 - GEOLOGY	DATE: JANUARY 2005

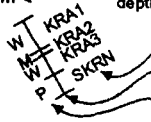


-	Absent
T	Trace
W	Weak
M	Moderate
S	Strong
P	Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonic Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section



Rock type code
Drill hole trace
Degree of skarnification

High angle fault
Outcrop
Lithological contact

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

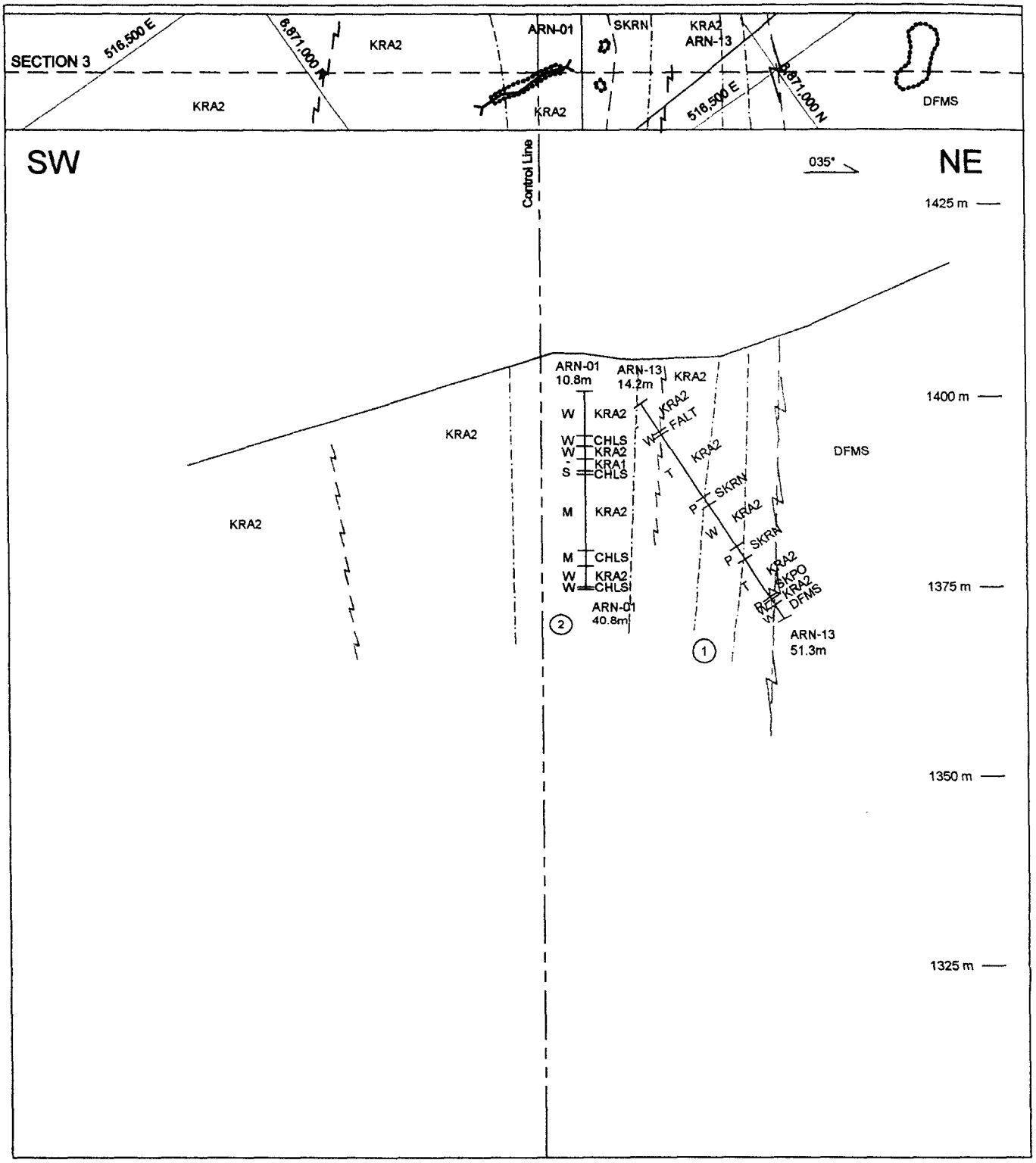
SECTION 2 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN\REVISED BY: TCB

FILE: ...\FIG 22 - SECTION 2 - GEOLOGY

DATE: JANUARY 2005



- Absent
T Trace
W Weak
M Moderate
S Strong
P Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonc Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section



High angle fault
Outcrop
Lithological contact

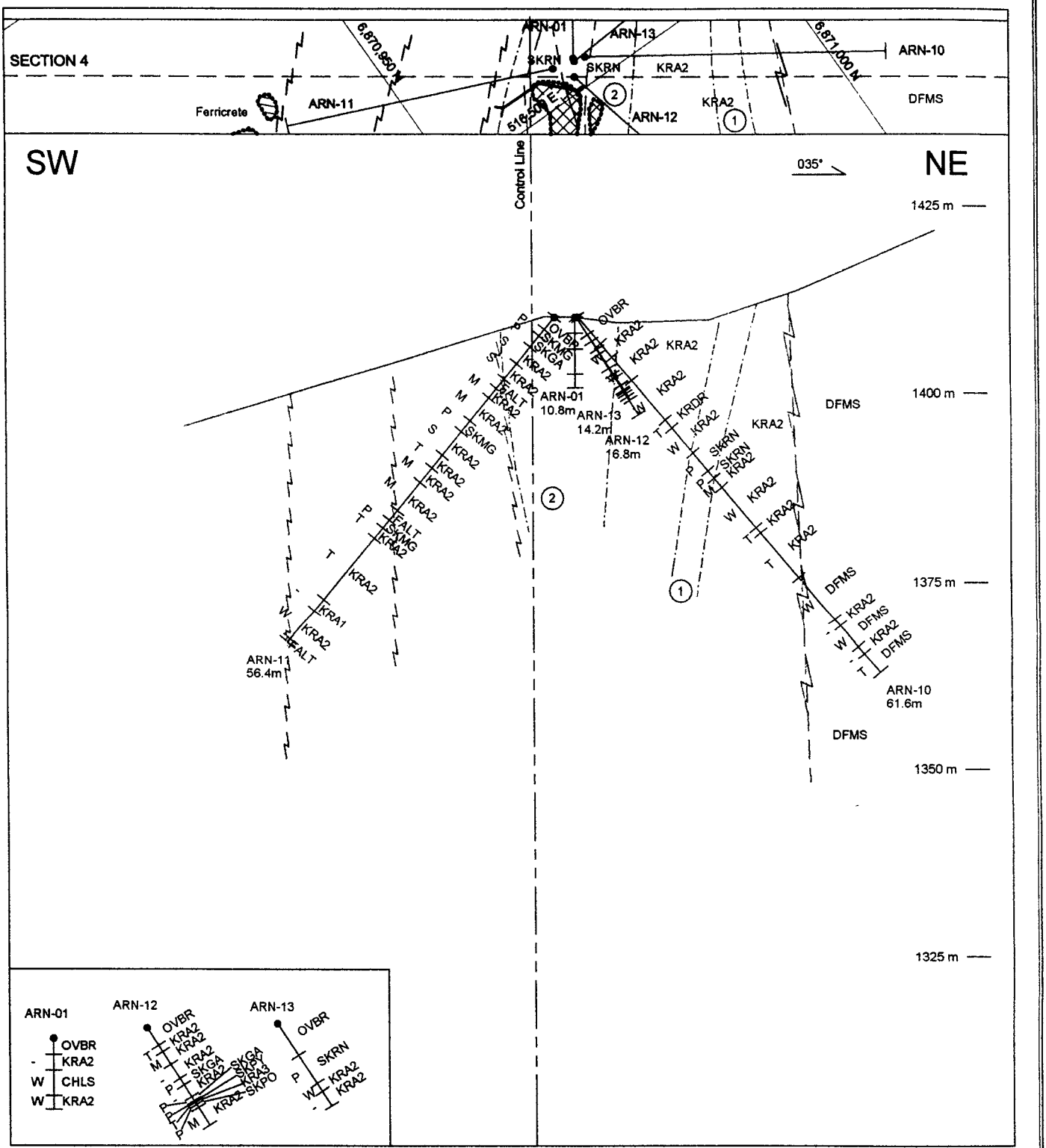
KLONDIKE GOLD CORP.
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FIGURE 23
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 3 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 23 - SECTION 3 - GEOLOGY
DATE: JANUARY 2005



ARN-01

OVBR
KRA2
W CHLS
W KRA2

ARN-12

OVBR
KRA2
KRA2
SKGA
KRA2
SKGA
SKPY
KRA3
SKPO
KRA2

ARN-13

OVBR
SKRN
KRA2
KRA2

- Absent
T Trace
W Weak
M Moderate
S Strong
P Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonc Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15
15.9m

Diamond drill hole number
Depth at end of hole or depth hole leaves/enters section

W KRA1
M KRA2
W KRA3
SKRN
P

Rock type code
Drill hole trace
Degree of skarnification

High angle fault
Outcrop
Lithological contact

KLONDIKE GOLD CORP.
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FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

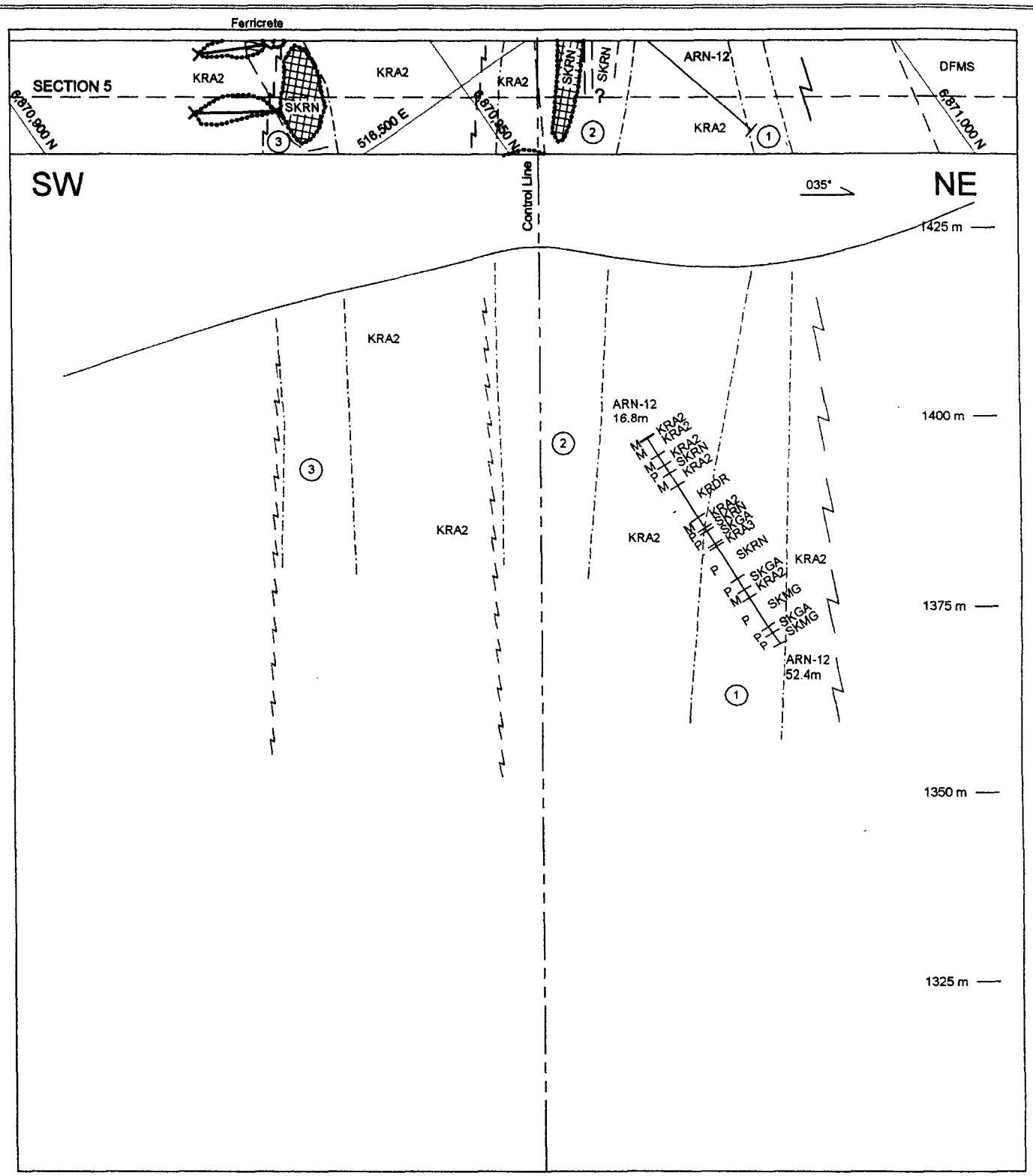
SECTION 4 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ..\FIG 24 - SECTION 4 - GEOLOGY

DATE: JANUARY 2005



-	Absent	SKRN	Mixed skarn	KRPS	Kluane Range Plutonc Suite - undifferentiated
T	Trace	SKPO	Pyrrhotite skarn	KRA1	KRPS - porphyry dyke with > 20% phenocrysts
W	Weak	SKPY	Pyrite skarn	KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
M	Moderate	SKMG	Magnetite skarn	KRA3	KRPS - porphyry dyke with <3% phenocrysts
S	Strong	SKGA	Garnet skarn	KRDR	KRPS - diorite
P	Pervasive	SKMF	Mafic skarn	DFMS	Dezadeash Formation - mudstone
				CHLS	Chitistone Formation - limestone
				NFVC	Nikolai Formation - volcanic rocks

ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
W KRA1 / M KRA2 / W KRA3 / P SKRN — Rock type code; Drill hole trace; Degree of skarnification

High angle fault
Outcrop
Lithological contact

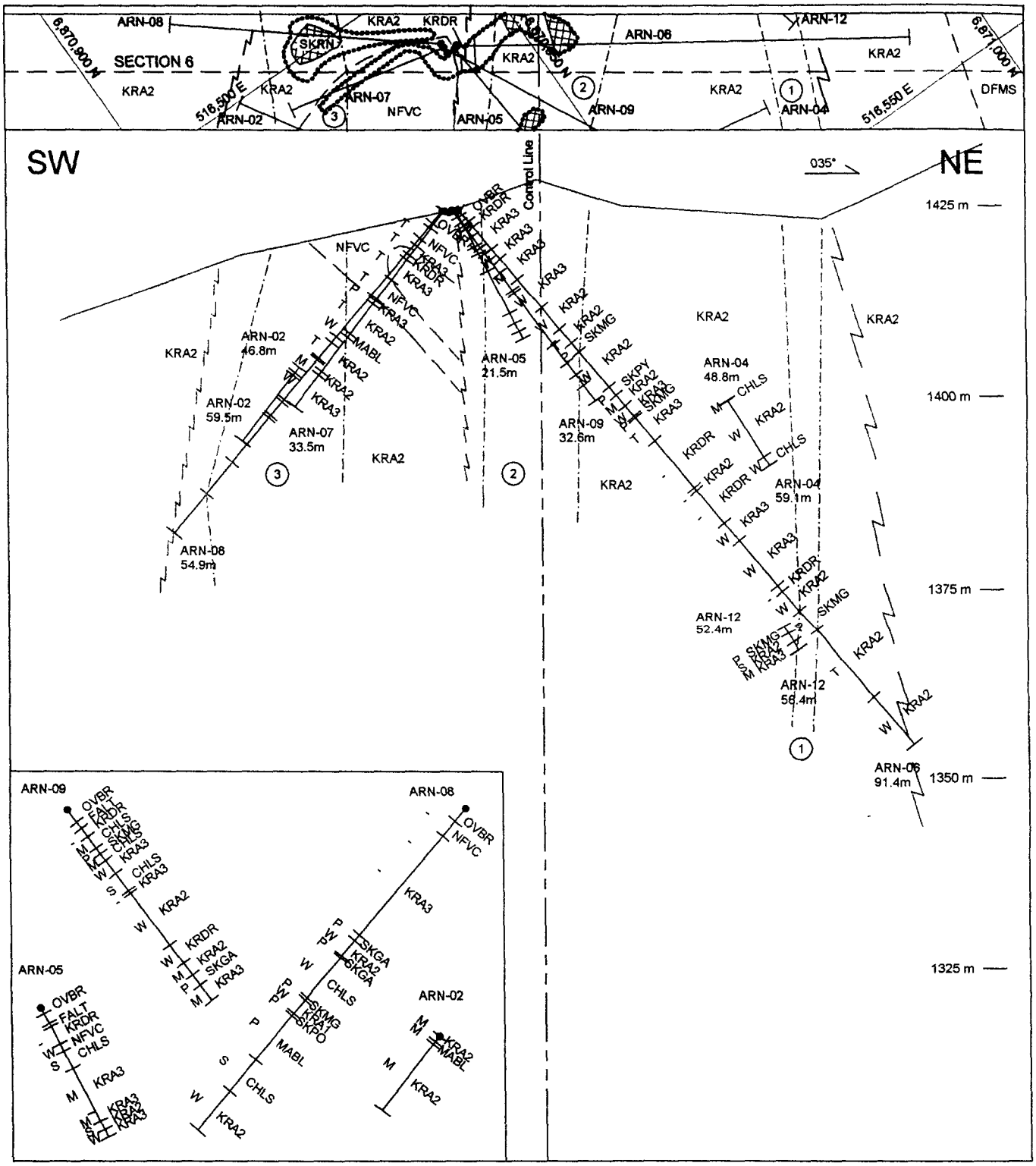
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FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 5 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN\REVISED BY: TCB
FILE: ...\FIG 25 - SECTION 5 - GEOLOGY
DATE: JANUARY 2005



-	Absent	SKRN	Mixed skarn	KRPS	Kluane Range Plutonic Suite - undifferentiated
T	Trace	SKPO	Pyrrhotite skarn	KRA1	KRPS - porphyry dyke with > 20% phenocrysts
W	Weak	SKPY	Pyrite skarn	KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
M	Moderate	SKMG	Magnetite skarn	KRA3	KRPS - porphyry dyke with <3% phenocrysts
S	Strong	SKGA	Garnet skarn	KRDR	KRPS - diorite
P	Pervasive	SKMF	Mafic skarn	DFMS	Dezadeash Formation - mudstone
				CHLS	Chitistone Formation - limestone
				NFVC	Nikolai Formation - volcanic rocks

ARN-15 15.9m — Diamond drill hole number; Depth at end of hole or depth hole leaves/enters section

W KRA1 / M KRA2 / W KRA3 / W SKRN / P — Rock type code; Drill hole trace; Degree of skarnification

High angle fault

Outcrop

Lithological contact

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 26

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

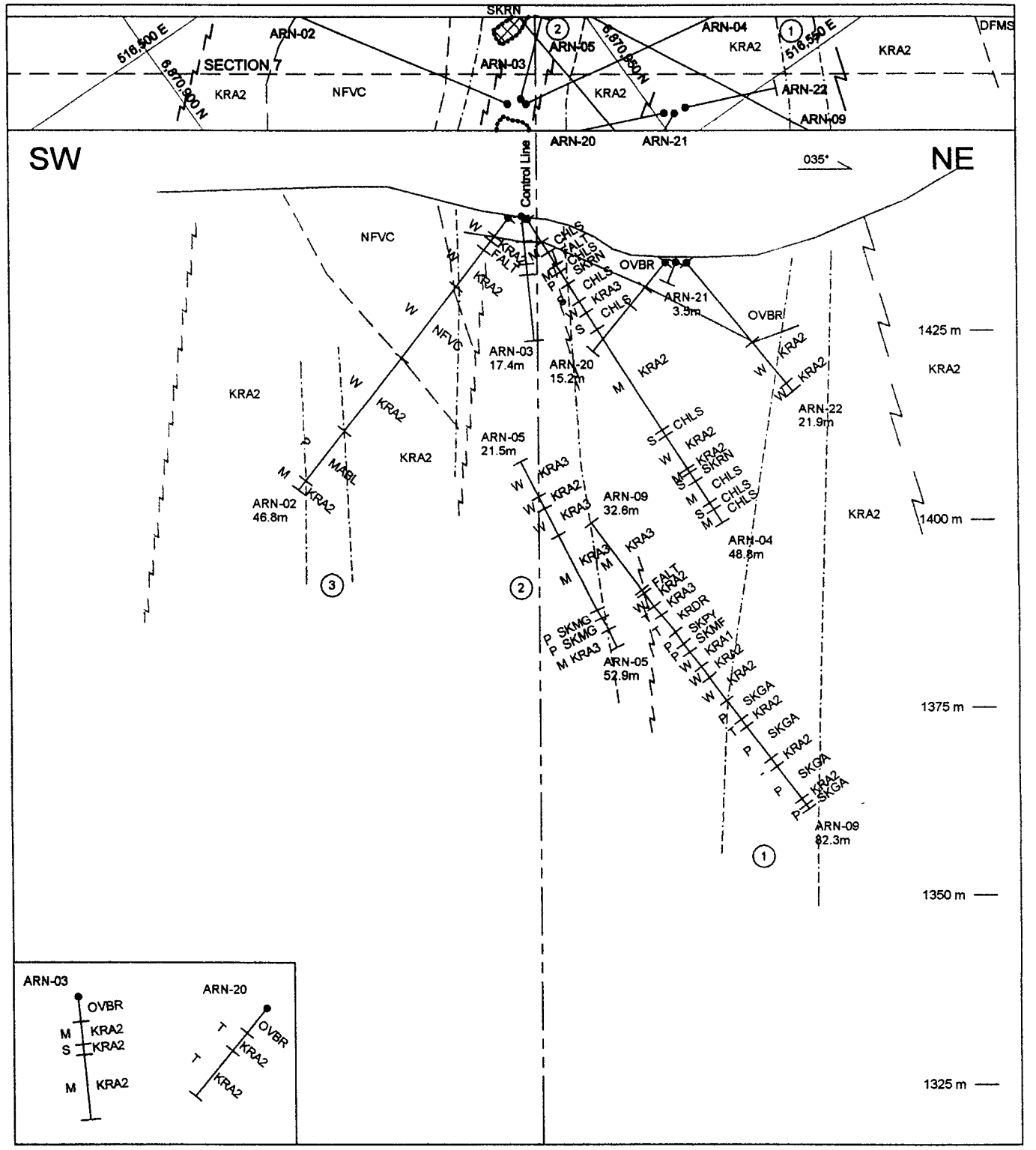
SECTION 6 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 26 - SECTION 6 - GEOLOGY

DATE: JANUARY 2005



- Absent
T Trace
W Weak
M Moderate
S Strong
P Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonc Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15 15.9m ← Diamond drill hole number
← Depth at end of hole or depth hole leaves/enters section



High angle fault
Outcrop
Lithological contact

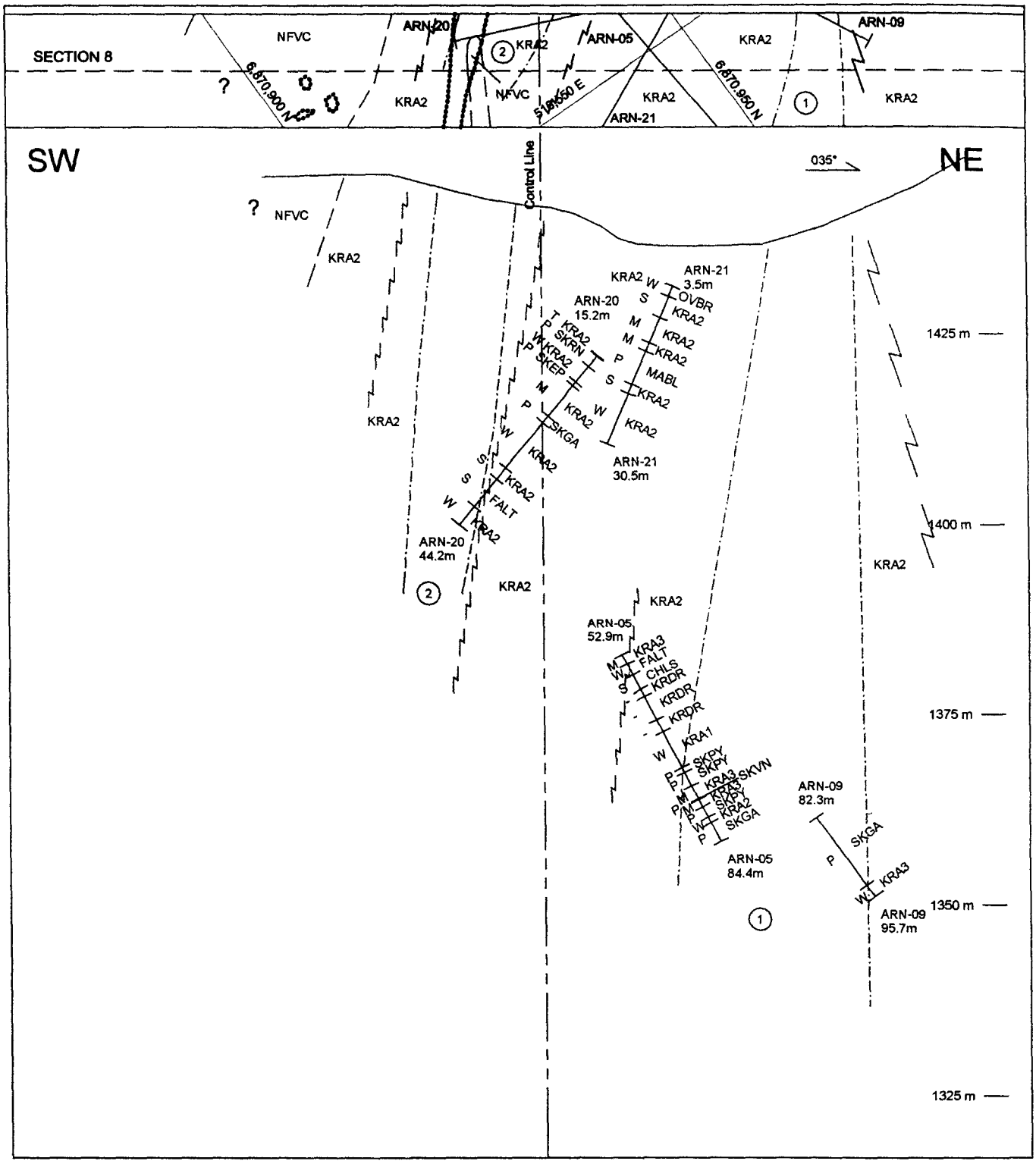
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 27
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 7 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 27 - SECTION 7 - GEOLOGY
DATE: JANUARY 2005



-	Absent	SKRN	Mixed skarn	KRPS	Kluane Range Plutonic Suite - undifferentiated
T	Trace	SKPO	Pyrrhotite skarn	KRA1	KRPS - porphyry dyke with > 20% phenocrysts
W	Weak	SKPY	Pyrite skarn	KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
M	Moderate	SKMG	Magnetite skarn	KRA3	KRPS - porphyry dyke with <3% phenocrysts
S	Strong	SKGA	Garnet skarn	KRDR	KRPS - diorite
P	Pervasive	SKMF	Mafic skarn	DFMS	Dezadeash Formation - mudstone
				CHLS	Chitistone Formation - limestone
				NFVC	Nikolai Formation - volcanic rocks

ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
W KRA1 / M KRA2 / W KRA3 / P SKRN — Rock type code; Drill hole trace; Degree of skarnification

High angle fault
Outcrop
Lithological contact

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 28

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

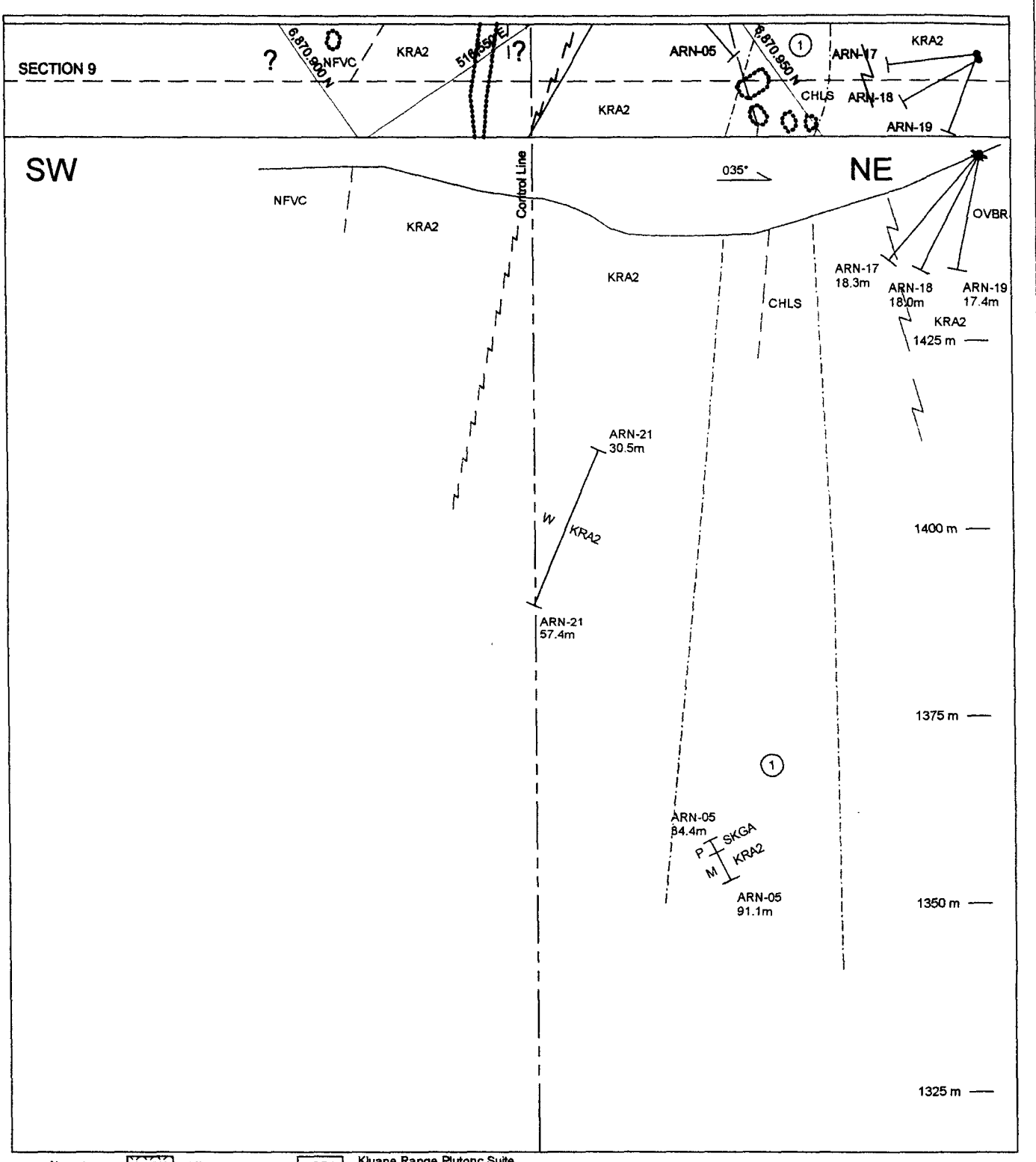
SECTION 8 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN\REVISED BY: TCB

FILE: ...\FIG 28 - SECTION 8 - GEOLOGY

DATE: JANUARY 2005



-	Absent
T	Trace
W	Weak
M	Moderate
S	Strong
P	Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonic Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with > 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section

W KRA1
M KRA3
W KRA3
SKRN — Rock type code
Drill hole trace
P — Degree of skarnification

High angle fault
Outcrop
Lithological contact

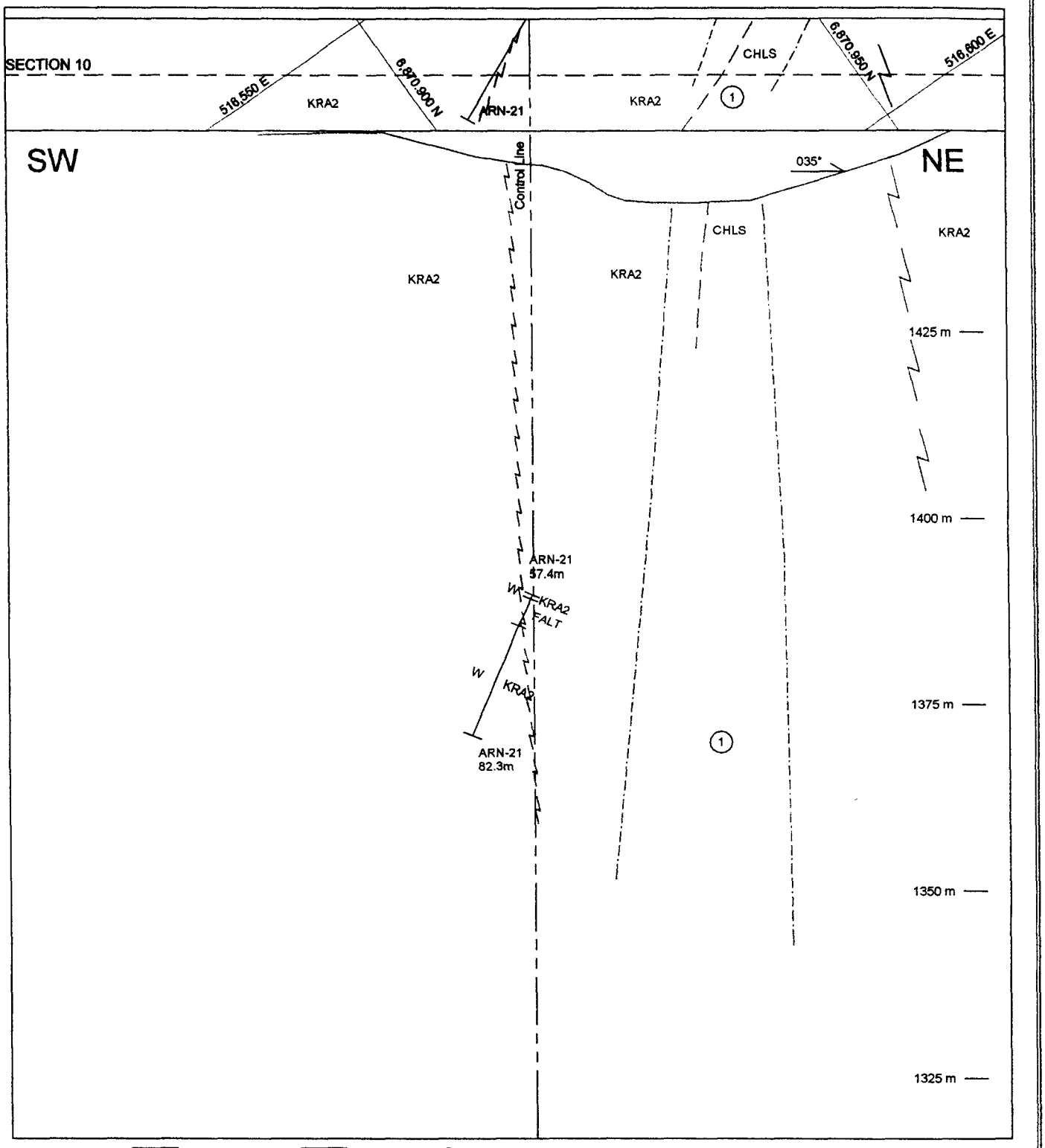
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 29
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 9 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN\REVISED BY: TCB
FILE: ...\FIG 29 - SECTION 9 - GEOLOGY
DATE: JANUARY 2005



-	Absent
T	Trace
W	Weak
M	Moderate
S	Strong
P	Pervasive

SKRN	Mixed skarn
SKPO	Pyrrhotite skarn
SKPY	Pyrite skarn
SKMG	Magnetite skarn
SKGA	Garnet skarn
SKMF	Mafic skarn

KRPS	Kluane Range Plutonc Suite - undifferentiated
KRA1	KRPS - porphyry dyke with > 20% phenocrysts
KRA2	KRPS - porphyry dyke with ≥ 3% - 20% phenocrysts
KRA3	KRPS - porphyry dyke with <3% phenocrysts
KRDR	KRPS - diorite
DFMS	Dezadeash Formation - mudstone
CHLS	Chitistone Formation - limestone
NFVC	Nikolai Formation - volcanic rocks

ARN-15
15.9m

Diamond drill hole number

Depth at end of hole or depth hole leaves/enters section

W KRA1
M KRA2
W KRA3
SKRN
P

Rock type code

Drill hole trace

Degree of skarnification

High angle fault

Outcrop

Lithological contact

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FIGURE 30

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

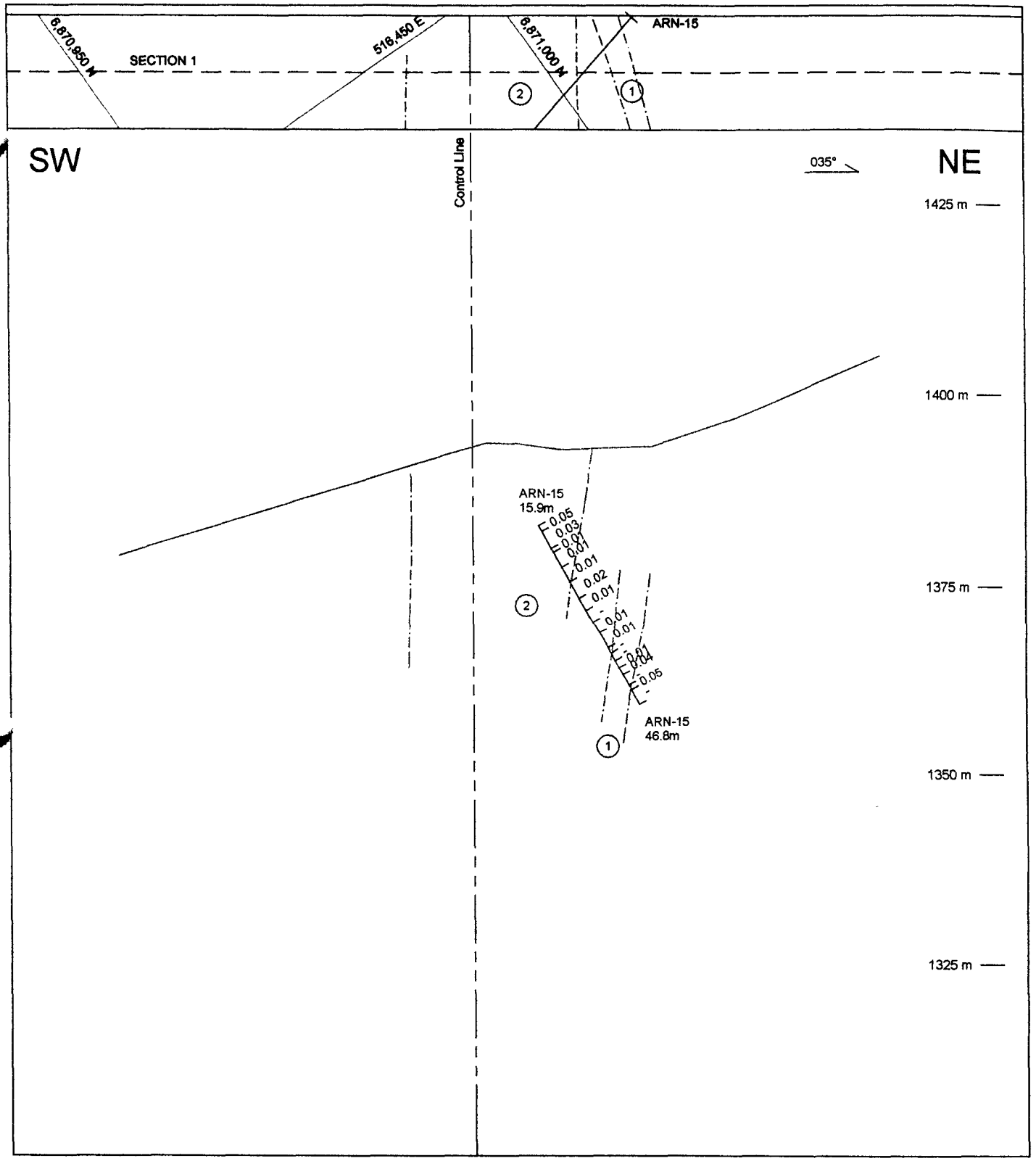
SECTION 10 - GEOLOGY
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 30 - SECTION 10 - GEOLOGY

DATE: JANUARY 2005



ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

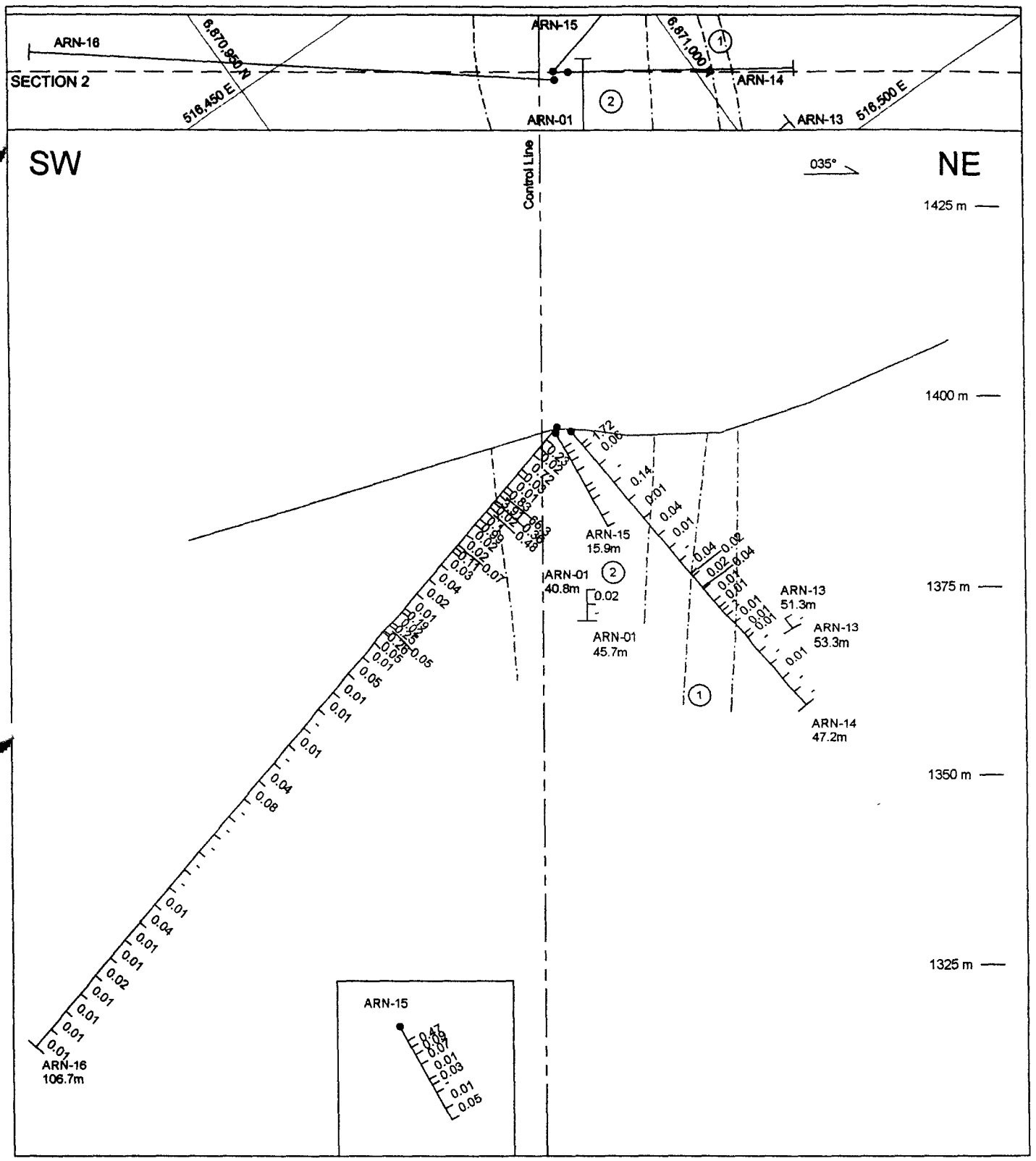
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 31
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 31 - SECTION 1 - AU
DATE: JANUARY 2005



ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 ← Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

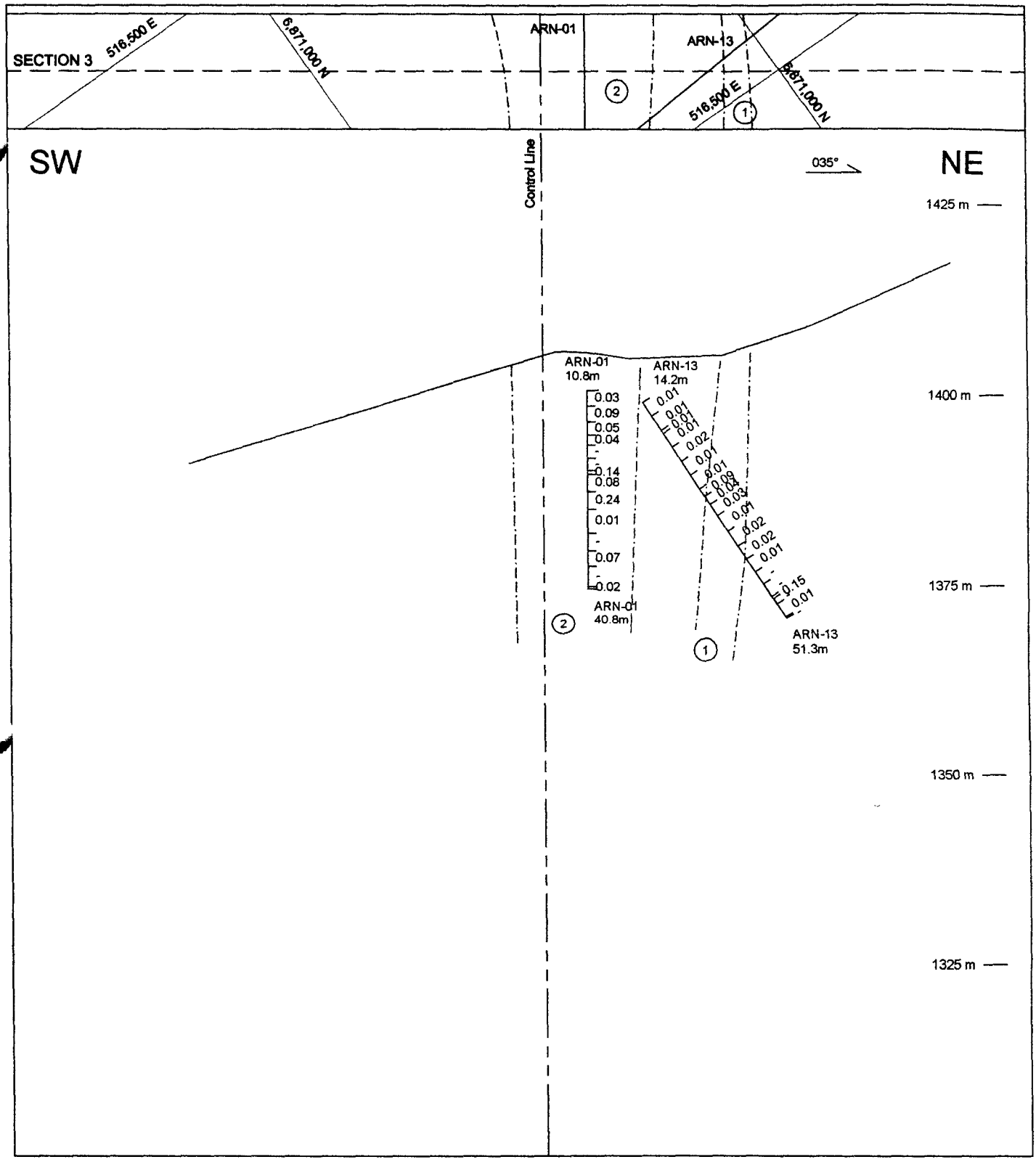
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FIGURE 32
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 2 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 32 - SECTION 2 - AU
DATE: JANUARY 2005



ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section
0.05
0.03
0.01 ← Au (g/t)
← Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
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FIGURE 33
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

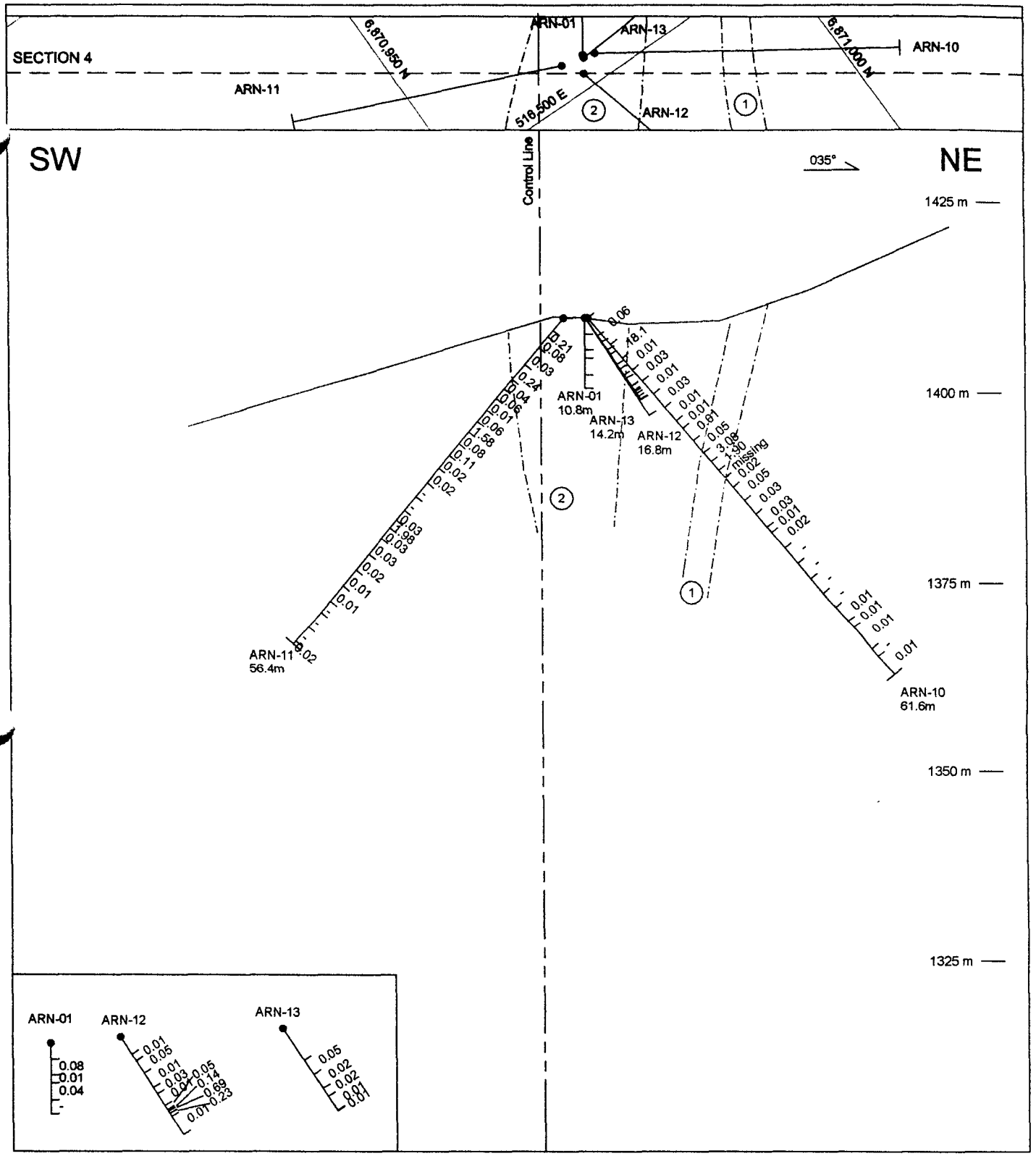
SECTION 3 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ..\FIG 33 - SECTION 3 - AU

DATE: JANUARY 2005



ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 ← Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

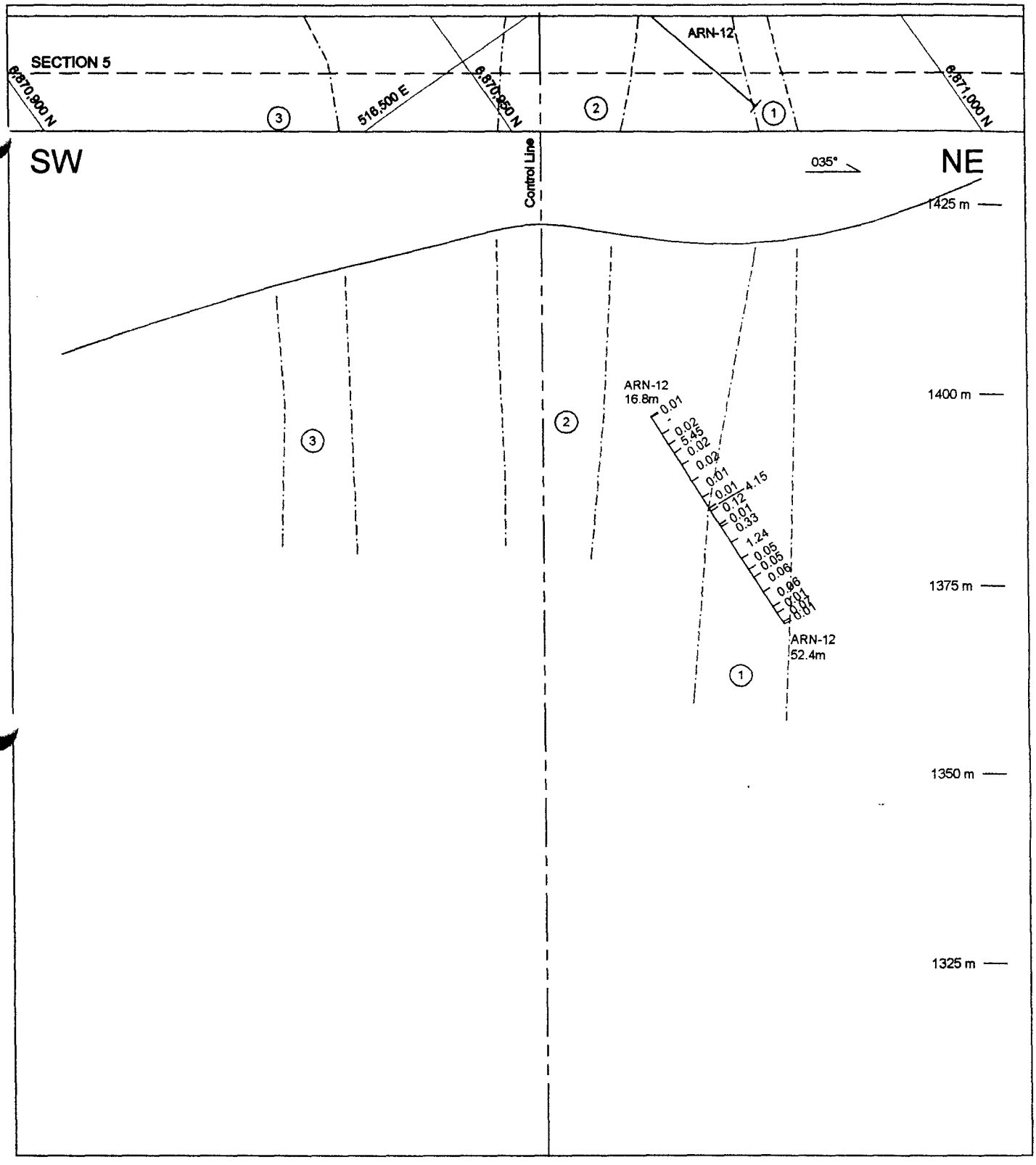
FIGURE 34

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 4 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB	
FILE: ...\FIG 34 - SECTION 4 - AU	DATE: JANUARY 2005



ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section
0.05
0.03
0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
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FIGURE 35

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 5 - GOLD

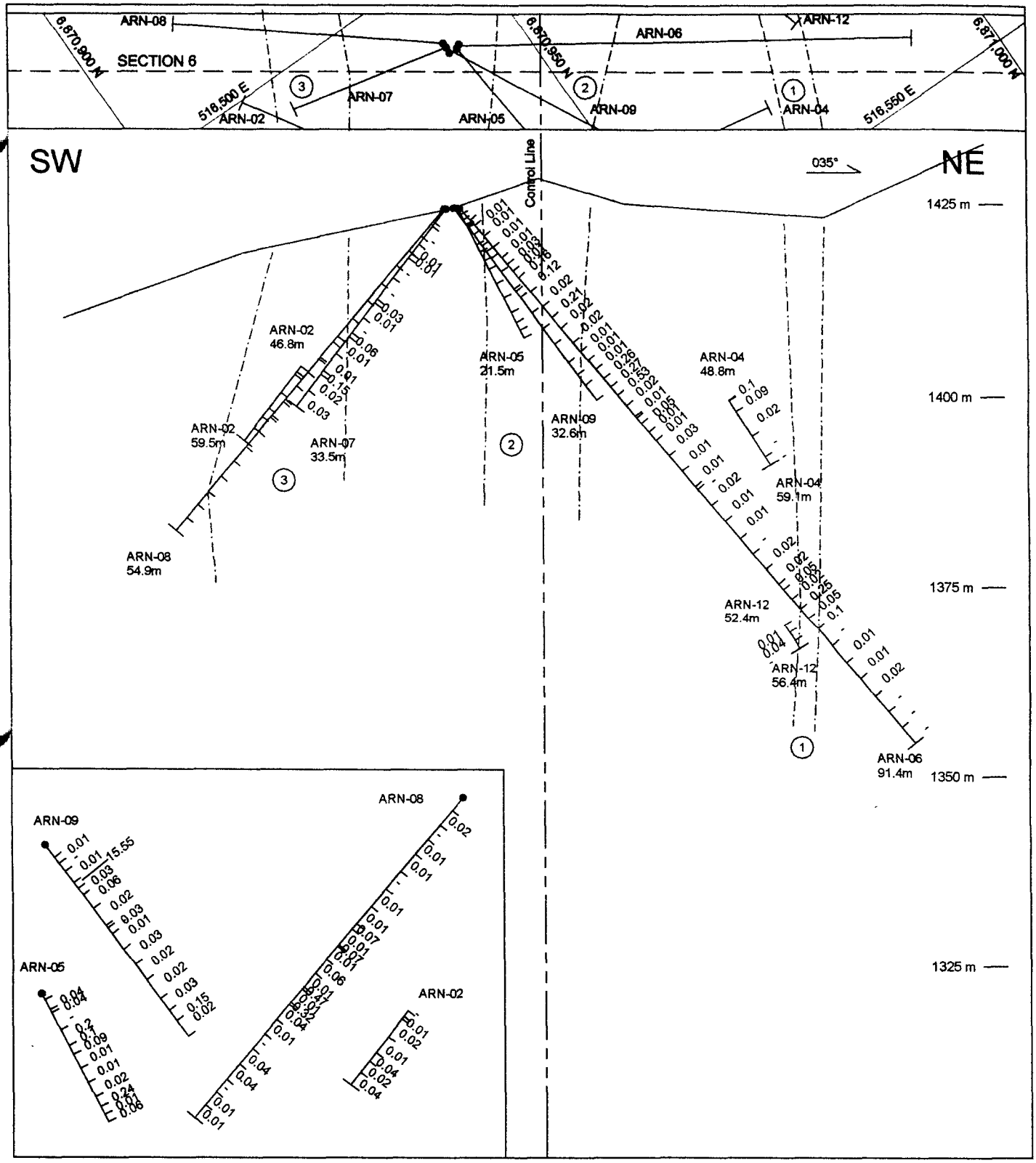
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 35 - SECTION 5 - AU

DATE: JANUARY 2006



ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
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FIGURE 36

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 6 - GOLD

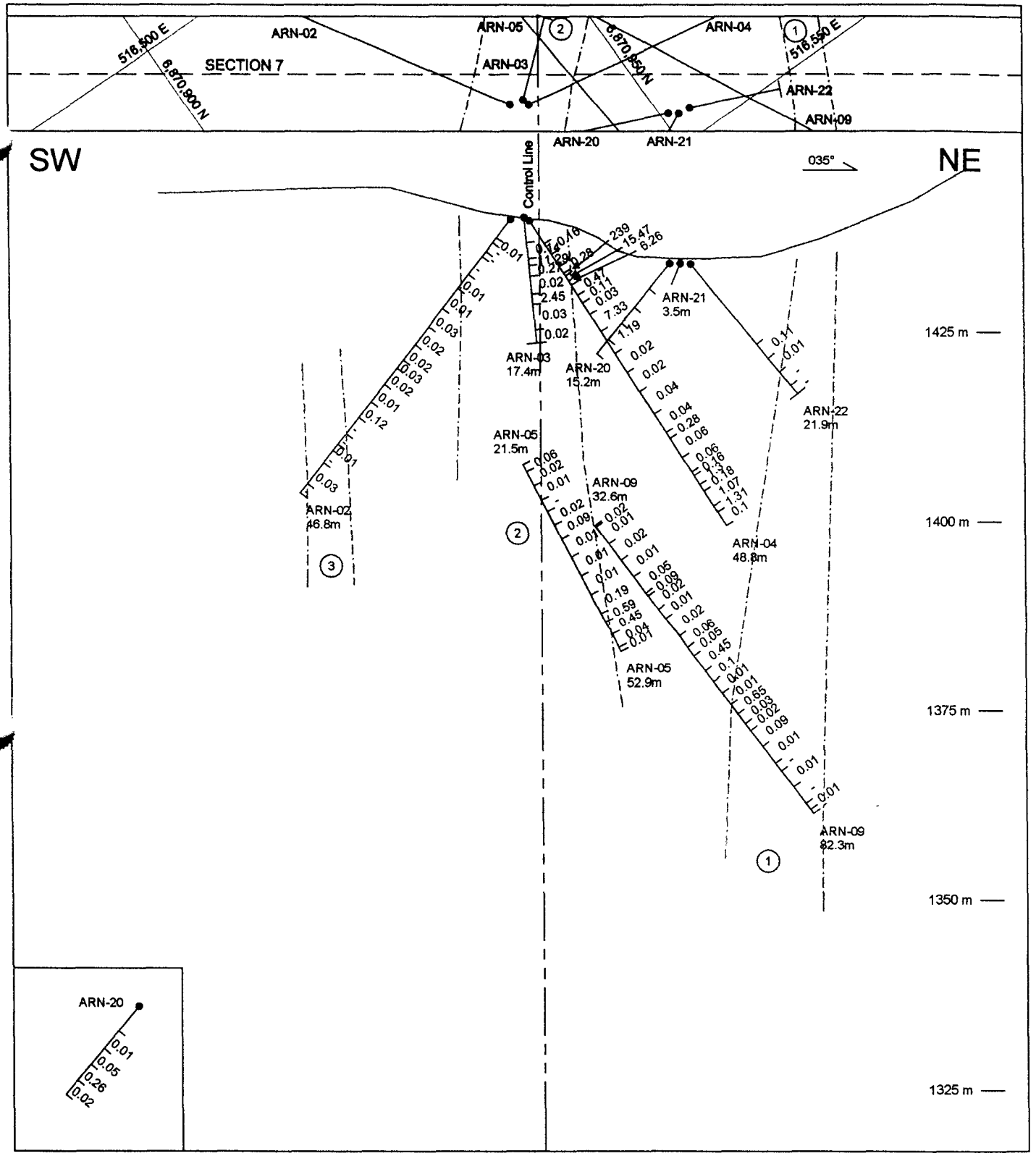
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 36 - SECTION 6 - AU

DATE: JANUARY 2006



ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

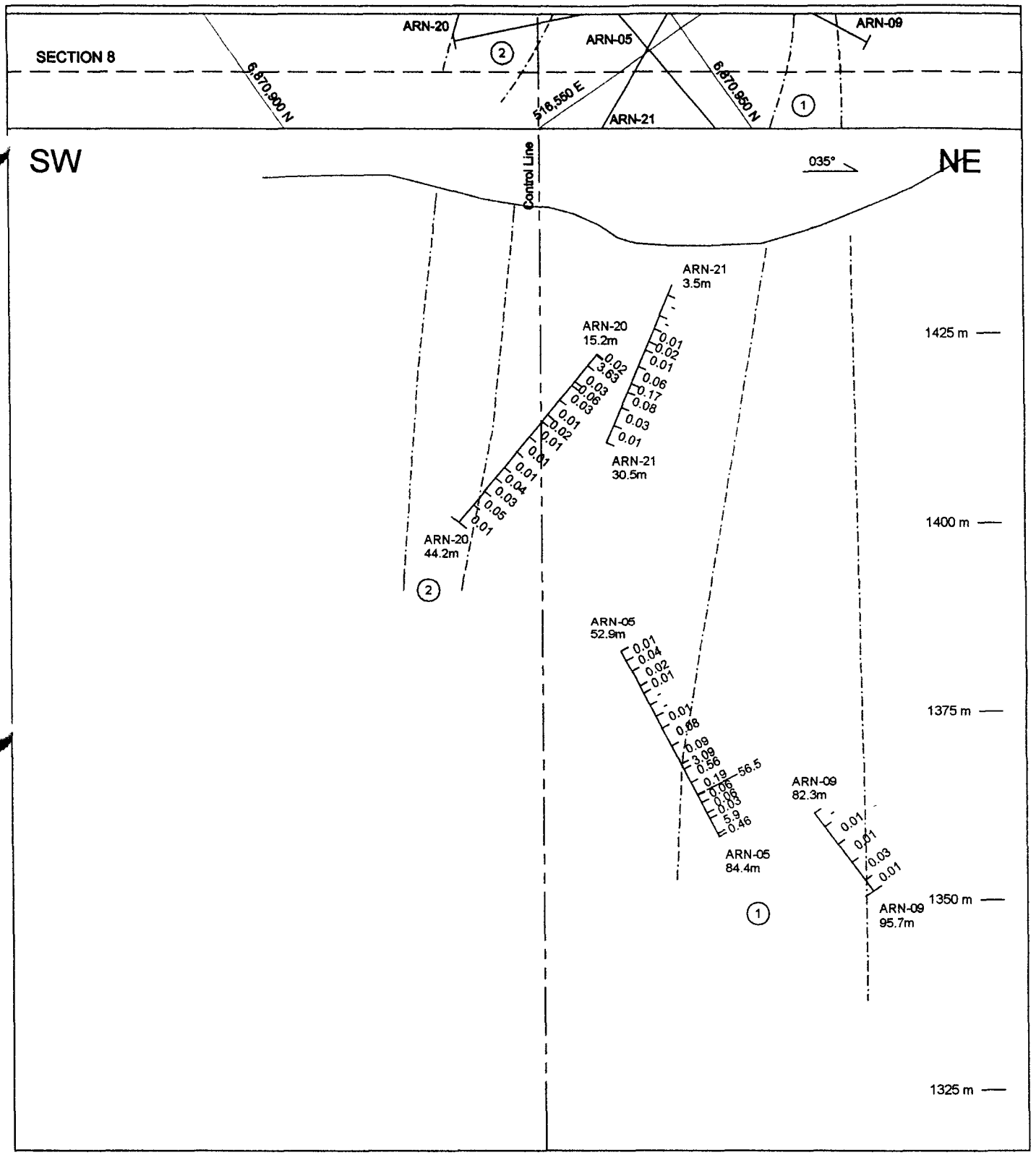
KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 37
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 7 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 37 - SECTION 7 - AU
DATE: JANUARY 2005



ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
0.05 / 0.03 / 0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 38
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

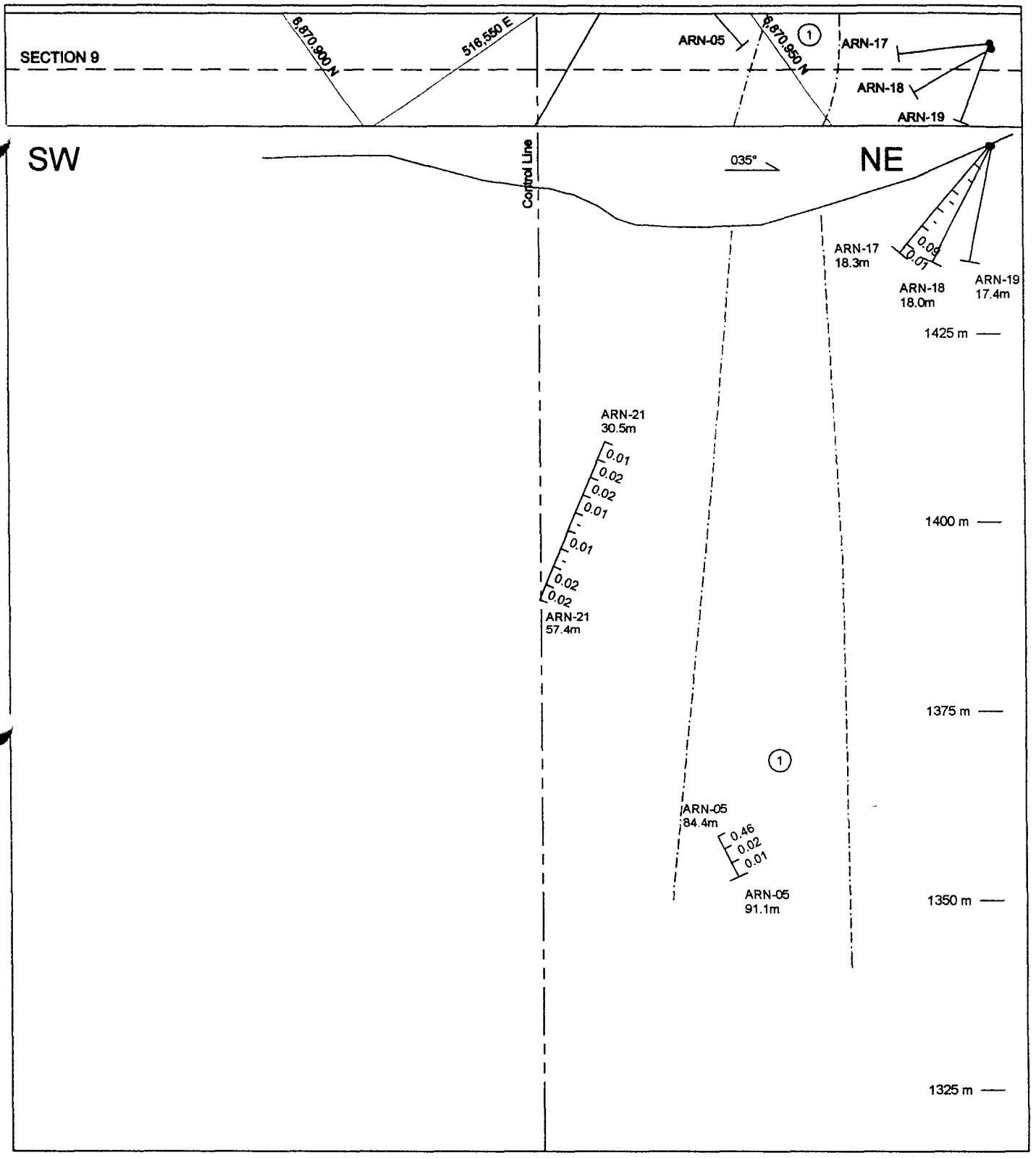
SECTION 8 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ..\FIG 38 - SECTION 8 - AU

DATE: JANUARY 2005



ARN-15 — Diamond drill hole number
15.9m — Depth at end of hole or depth hole leaves/enters section
0.05 0.03 0.01 — Au (g/t)
Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 39

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 9 - GOLD

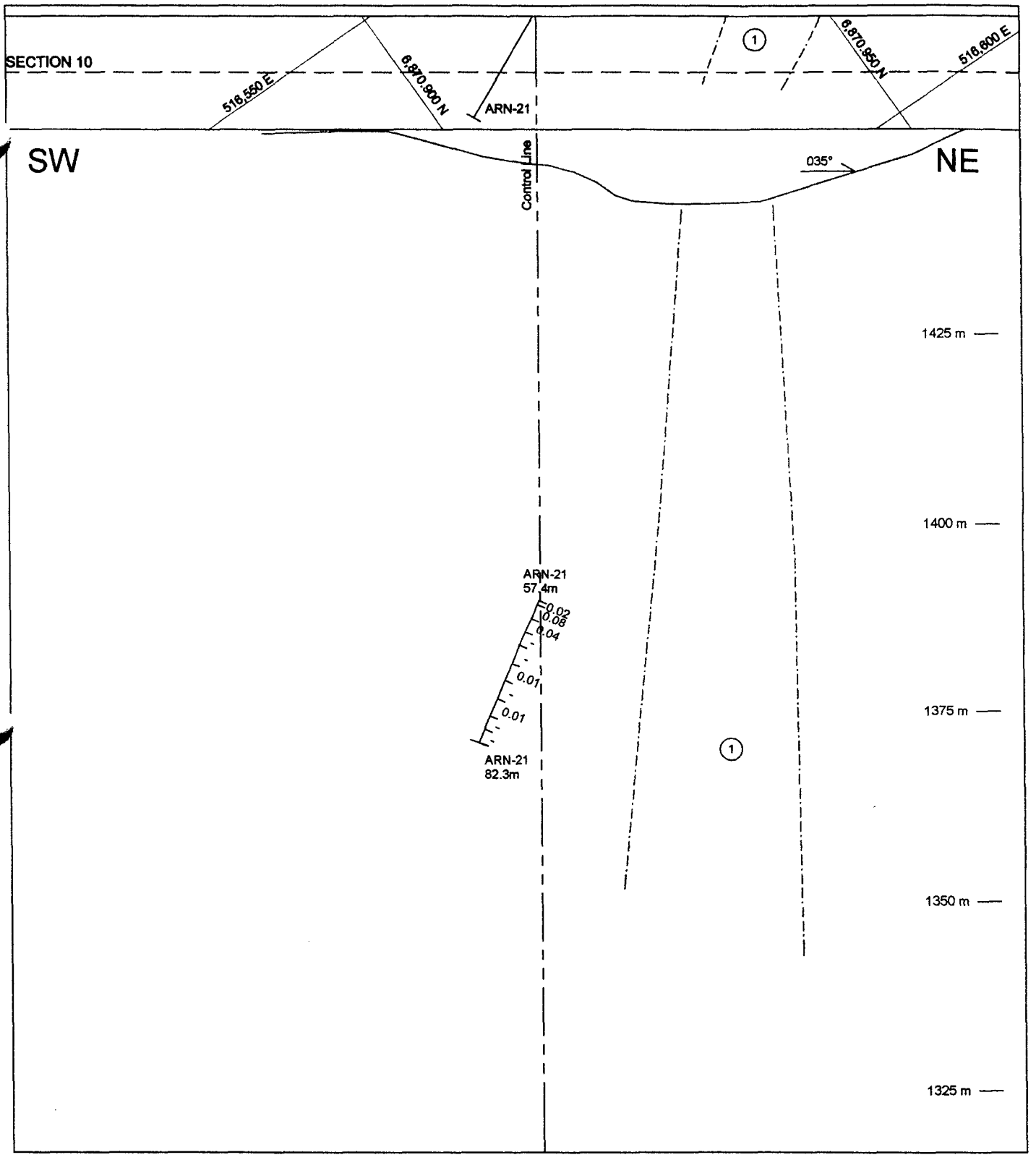
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB

FILE: ...\FIG 39 - SECTION 9 - AU

DATE: JANUARY 2005



ARN-15 ← Diamond drill hole number
15.9m ← Depth at end of hole or depth hole leaves/enters section
0.05 / 0.03 / 0.01 ← Au (g/t)
← Drill hole trace

(1) Mineralized band discussed in text

KLONDIKE GOLD CORP.
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FIGURE 40
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 10 - GOLD
ARN PROPERTY

0 10 20 30 40 50m

DRAWN/REVISED BY: TCB
FILE: ...\FIG 40 - SECTION 10 - AU
DATE: JANUARY 2005

Geotechnical logging consisted of measuring core recovery, rock quality designation (RQD), breakage, hardness, weathering, number of joints per metre, shape of joints and roughness of joints. Geotechnical intervals corresponded with drill blocks. Core recovery was excellent with most intervals approaching 100%. RQD was highest in weakly mineralized or barren rocks but most intervals returned moderate to high values. These results suggest that the rock would be amenable to a variety of modern mining methods. Geotechnical logs and the geotechnical logging manual are in Appendix III.

The core was geologically logged and the information was recorded on detailed logs which appear in Appendix IV. Synoptic logs were generated from the detailed information and are included in Appendix V. The synoptic logs also display results of gold, copper, silver, iron and sulphur analyses. Certificates of Analysis are in Appendix VI. Drill hole data is shown in Table IV and significant drill hole results in Table V.

TABLE IV
DRILL HOLE DATA

Hole	Easting	Northing	Elevation (m)	Depth (m)	Azm	Dip
ARN-01	516,511.2	6,870,957.8	1,423.0	45.72	305	-60.0
ARN-02	516,532.7	6,870,934.8	1,439.7	59.45	238	-50.0
ARN-03	516,533.2	6,870,936.6	1,440.0	17.37	320	-70.0
ARN-04	516,534.1	6,870,936.8	1,439.5	59.13	010	-55.0
ARN-05	516,510.5	6,870,941.5	1,424.4	91.14	085	-51.5
ARN-06	516,510.4	6,870,941.9	1,424.5	91.44	034	-50.0
ARN-07	516,509.6	6,870,940.3	1,424.4	33.53	190	-50.0
ARN-08	516,509.0	6,870,940.4	1,424.4	54.86	219	-50.0
ARN-09	516,510.5	6,870,940.8	1,424.5	95.71	063	-50.0
ARN-10	516,496.2	6,870,972.4	1,410.0	61.57	034	-50.0
ARN-11	516,495.6	6,870,969.0	1,410.0	56.39	203	-50.0
ARN-12	516,498.1	6,870,970.7	1,410.0	56.39	076	-50.0
ARN-13	516,496.4	6,870,971.9	1,410.0	53.34	356	-50.0
ARN-14	516,472.3	6,870,986.2	1,395.3	47.24	034	-50.0
ARN-15	516,471.1	6,870,984.7	1,395.1	53.34	346	-50.0
ARN-16	516,472.1	6,870,984.2	1,395.9	106.68	218	-50.0
ARN-17	516,586.9	6,870,972.9	1,449.4	18.29	208	-50.0
ARN-18	516,587.6	6,870,972.8	1,449.7	17.98	185	-60.0
ARN-19	516,586.9	6,870,973.2	1,449.3	17.37	145	-60.0
ARN-20	516,545.5	6,870,951.0	1,433.9	44.20	203	-50.0
ARN-21	516,546.3	6,870,952.1	1,433.9	82.30	155	-50.0
ARN-22	516,546.5	6,870,953.7	1,433.9	21.95	023	-50.0

TABLE V
SIGNIFICANT DRILL HOLE RESULTS*

Hole	From	To	Length (m)	Gold (g/t)	Copper (%)	Skarn Band
ARN-03	5.70	6.71	1.01	11.29	0.02	2
ARN-03	10.67	12.05	1.38	2.45	0.01	2
ARN-04	8.38	21.05	12.67	11.92	0.21	2
including	8.38	10.36	1.98	63.87	1.16	2
and	14.94	17.60	2.66	7.33	0.13	2
ARN-04	40.70	46.65	5.95	1.01	0.43	
ARN-05	72.07	86.45	14.38	1.96	1.39	1
including	72.07	72.87	0.80	3.09	6.08	1
including	77.22	77.35	0.13	56.50	4.56	1
including	81.26	83.85	2.59	5.90	4.30	1
ARN-09	6.49	7.48	0.99	15.55	0.49	2
ARN-10	4.57	6.89	2.32	18.10	0.01	2
ARN-10	23.36	26.41	3.05	2.49	3.18	1
ARN-11	17.96	19.81	1.85	1.58	0.04	2
ARN-11	34.96	36.30	1.34	1.98	3.95	2
ARN-12	21.60	22.98	1.38	5.45	3.24	
ARN-12	32.34	32.85	0.51	4.15	6.56	1
ARN-12	38.21	40.93	2.72	1.24	1.43	1
ARN-14	2.13	2.73	0.60	1.72	0.63	2
ARN-16	10.86	12.40	1.54	34.29	0.49	2
ARN-20	15.32	17.15	1.83	3.63	0.09	2

*Sample intervals with greater than 1.0 g/t gold

All 2002 and 2004 diamond drill holes were drilled in a 170 by 110 m area immediately east of Miles Creek. The area is mostly grass and talus covered and lies within or on the southern flank of a prominent gully that marks the trace of the Arn Fault. The holes explored Zones A and B and were intended to provide a better understanding of the geology, controls on mineralization and economic significance of this area.

Zones A and B consists of gold- and-copper-bearing skarn bands in a west-northwest trending area over 120 m long and 50 to 75 m wide. Host units consist of Chitistone limestone and Nikolai basalts that are intruded by narrow KRPS porphyritic andesite and diorite dykes. The northern boundary of this mineralized area is partially defined by the Arn Fault. North of the fault outcrops consist of Dezadeash sediments. To the south of the mineralized area outcrops are limited but the dominant rock type appears to be KRPS dykes.

The oldest and least abundant rocks in the mineralized area are Nikolai basalts. These basalts appear to be the uppermost part of the Nikolai section and contain blocks of Chitistone limestone and massive, medium to coarse grained marble. These limy blocks are up to 12 m thick but

usually are less than 5 m. Adjacent to dykes, the limestone and basalt are commonly skarnified and variably mineralized. Most dykes are less than 5 m wide, with sharp, sometimes chilled margins. They show multiple stages of intrusion and have variable compositions. Fragments of Nikolai basalt, Chitistone limestone, marble and skarn are found within porphyritic andesite dykes. Mineralization within them is weak and restricted to partial to complete assimilation of wallrock fragments prior to cooling. The youngest rocks are unmineralized KRPS diorite dykes. These dykes can sometimes be traced for up to 50 m with widths up to 8 m.

Two styles of faulting have been identified in the mineralized area: brittle extensional fracturing and narrow shears. A single main structural break has not been recognized to mark the Arn Fault in the vicinity of Zones A and B; instead the fault appears to be a zone of brittle fracturing containing abundant hairline fractures to 30 cm wide veins. The brittle fractures have been filled with white calcite, quartz and iron carbonate minerals. Movement along the fault likely postdates the main mineralizing event. However, some late gold-, arsenic- and zinc-bearing fluids may have used it as a conduit (Miller 2004). It appears that bedding near the Arn Fault has been dragged so that strikes and dips in stratified rocks and dykes are rotated to approximately parallel the fault (Eaton, 2003).

Several narrow shear zones have been identified south of the Arn Fault in outcrop and drill holes. These shears are usually less than 1 m wide and most have only been traced for few tens of metres along strike. The exception is the most southerly shear, which is the strongest structure. It has been traced for over 200 m and may mark the southern limit of mineralization. The shear zones range from clay gouge to small angular rock fragments in a matrix of quartz, calcite and tan carbonate minerals. Sulphide minerals were present but deep weathering has destroyed them leaving limonite stains and boxwork textures. Diamond drillers had a difficult time coring this material and holes Arn-11 and Arn-20 were not completed to their target depths due to difficulties related to these shears. Angles to core axis indicate near vertical dips. Most of the shear zones returned only slightly anomalous to background values for gold and copper.

Surface mapping, geophysical surveys and structural measurements taken from drill core indicate that sedimentary bedding dips near vertical and strikes easterly to southeasterly within the drill area. However, in areas of strong to pervasive skarnification it was not possible to find reliable sedimentary layering and most bedding measurements were made peripheral to the areas of mineralization.

During core logging it was noted that copper minerals have a strong positive correlation with degree of skarnification and total sulphide content in the rock. This observation is supported by statistical review of results which shows that copper has a moderate to strong positive correlation with silver, bismuth, iron, sulphur and zinc (Table VI). Gold has a moderate positive correlation with silver, bismuth, copper and sulphur.

TABLE VI
COEFFICIENTS OF CORRELATION FOR DIAMOND DRILL SAMPLES*

	Ag	As	Au	Bi	Ca	Cu	Fe	Mo	Pb	S	Sb	Zn
Ag		0.30	0.34	0.73	-0.09	0.97	0.30	-0.06	0.13	0.46	0.12	0.86
As	0.30		0.12	0.09	0.04	0.39	0.38	-0.03	0.41	0.48	0.09	0.36
Au	0.34	0.12		0.26	-0.03	0.35	0.19	0.11	0.16	0.26	0.08	0.17
Bi	0.73	0.09	0.26		-0.13	0.71	0.33	0.00	0.06	0.31	0.24	0.66
Ca	-0.09	0.04	-0.03	-0.13		-0.02	0.18	-0.05	0.11	0.20	0.08	-0.06
Cu	0.97	0.39	0.35	0.71	-0.02		0.38	-0.05	0.15	0.51	0.12	0.87
Fe	0.30	0.38	0.19	0.33	0.18	0.38		-0.06	0.37	0.57	0.16	0.33
Mo	-0.06	-0.03	0.11	0.00	-0.05	-0.05	-0.06		-0.05	-0.08	0.15	-0.04
Pb	0.13	0.41	0.16	0.06	0.11	0.15	0.37	-0.05		0.21	0.18	0.18
S	0.46	0.48	0.26	0.31	0.20	0.51	0.57	-0.08	0.21		0.31	0.48
Sb	0.12	0.09	0.08	0.24	0.08	0.12	0.16	0.15	0.18	0.31		0.10
Zn	0.86	0.36	0.17	0.66	-0.06	0.87	0.33	-0.04	0.18	0.48	0.10	

	Ag	As	Au	Bi	Ca	Cu	Fe	Mo	Pb	S	Sb	Zn
Sum	4.06	2.61	2.01	3.24	0.21	4.39	3.12	-0.14	1.91	3.72	1.62	3.90
Count**	186	420	421	70	503	510	498	365	349	491	175	512
	Ag (ppm)	As (ppm)	Au (ppm)	Bi (ppm)	Ca (%)	Cu (ppm)	Fe (%)	Mo (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Zn (ppm)
Average***	2	15	1.20	7	4.87	1,214	7.46	2.4	6	0.76	3	73

Strong positive coefficient of correlation (> 0.50)

Moderate positive coefficient of correlation (> 0.25 < 0.50)

Weak coefficient of correlation (< 0.25)

* The coefficient of correlation is a number describing how closely the points in a two variable frequency distribution fit the straight line of best fit. If all the points fall on the line, the correlation is + or – 1: a perfect correlation, if all the points do not fall on the line, the correlation coefficient will approach zero. Samples represented in Table VI include diamond drill samples from both 2002 and 2004.

** The count and coefficient of correlation do not include any values less than detection limit or exceeding upper detection limit.

*** Averages do not include any values less than detection limit or exceeding upper detection limit and should only be used as a rough estimate for exploration planning purposes.

Mineralization is exposed intermittently in outcrops, trenches and drill holes along a 120 m west-northwesterly trend (Figure 18). Most of the mineralization is confined to three skarn bands that are partially open along strike to the west beneath a glacial moraine terrace and uphill to the east where they project beneath soil and talus. Interpretation of surface mapping and drill results has shown that the main bands dip steeply, and that smaller irregular bands or pods occur in the surrounding wallrocks. The northernmost band was first identified in 2004 while the central and southern bands were identified by previous work generally corresponding to Zones A and B,

respectively. The following paragraphs describe specific outcrops, trenches and drill holes comprising each band.

Band 1 is the furthest north and is located just south of the projected trace of the Arn Fault. It has been delineated for a length of about 120 m with widths ranging from 4 to 25 m. It is open to extension along strike at both ends and downdip. At its eastern end the band is exposed in outcrop as fresh to weakly epidote skarnified Chitistone limestone. In float, this limestone/skarn horizon has been traced further to the southeast, uphill toward Zone H. Northwest of the limestone outcrop the band is not exposed at surface. Mineralization related to this band was intersected in eight diamond drill holes.

In drill holes, Band 1 is composed of pervasively skarnified wallrocks and narrow less intensely skarnified porphyry dykes. In the easterly holes, the dominant skarn types are garnet and pyrite, which gradually trend to magnetite followed by mixed skarn further to the west. The band is widest and best mineralized in its eastern part where ARN-05 returned 1.96 g/t gold and 1.39% copper over 14.38 m. Further to the west ARN-12 returned 4.15 g/t gold and 6.56% copper over 0.51 m and ARN-10 returned 2.49 g/t gold and 3.18% copper over 3.05 m.

Band 2 lies 10 to 25 m south of Band 1 and corresponds with Zone A at surface. This band has been traced for over 100 m along strike, with widths ranging from 8 to 22 m. The eastern end of this band is not exposed at surface due to talus cover but at depth it appears to be composed of several narrow discontinuous skarn horizons. To the west these horizons coalesce into two or three wider intervals that are stronger and still open to extension. Band 2 is partially resistant to weathering forming a small linear ridge just south of the gully that marks the southern edge of the Arn Fault. Post drill geological modelling showed that most holes were collared very near or within this band; thus core was not often recovered from it.

Mineralization within Band 2 is very erratic and it is difficult to make correlations between adjacent intervals. For example, showing A4 was exposed in a hand trench 8 m northeast of ARN-14, where it consisted of over 30% pyrrhotite and pyrite with abundant chalcopyrite in a gangue of calcite, garnet and epidote. A bedrock chip sample taken in 2002 from this trench returned 4.3 g/t gold and 6.21% copper over 1.5 m. In 2004 the trench was deepened and chip sampled again (TR04-06). This time it returned 3.30 g/t gold and 2.11% copper over 5.4 m. However, ARN-14, which was drilled immediately beneath the trench, encountered unmineralized KRPS porphyry dykes. Another example of the lack of continuity is ARN-09 where a broad interval of skarnified limestone includes a 0.99 m interval of magnetite skarn that graded 15.55 g/t gold and 0.49% copper. Only 3 m away ARN-05 intersected the same skarnified limestone but returned only background values while ARN-06 about 5 m away intersected unmineralized KRPS porphyry dykes. A final illustration of this band's erratic behavior was the inability of 2004 holes to produce an intersection comparable to the 63.87 g/t gold and 1.16% copper over 1.98 m cut in ARN-04.

At surface Band 2 forms either a low ridge of garnet and magnetite skarn outcrops, which have low sulphide content, or shallow depressions underlain by strongly weathered sulphide rich skarn, which is often weathered to medium to pale brown limonite. Chip samples taken in 1993 from the garnet and magnetite skarn outcrops returned gold values ranging from nil to 1.54 g/t

and consistently low copper values (<200 ppm). The highest assay from a surface sample derived from Band 2 came from pyrrhotite- and pyrite-rich, chlorite altered skarn talus collected updip from the intersection in ARN-04. A 3 m long chip sample of this mineralized skarn talus returned 79.2 g/t gold and 0.18% copper. Six metres northwest of the mineralized talus, a chip sample taken across a highly fractured, limonite rich skarn outcrop returned 15.1 g/t gold and 0.20% copper over 2.5 m.

Band 3 is the furthest south of the three skarn bands and corresponds to Zone B. It is approximately 30 m long by 10 m wide. The eastern end of this band does not extend to surface but at depth it consists of unmineralized marble. To the west it forms as a prominent skarn outcrop with limestone, marble and narrow pervasive skarn intervals at depth. The band pinches to the west and appears to truncate against a shear zone. Outcrop and hand trenches were chip sampled in 1993, 1998, 2003 and 2004. Five diamond drill holes tested this target.

The core of this band is a 20 by 10 m outcrop centred on a strongly weathered KRPS dyke. Most of the outcrop is mixed skarn but it includes subrounded magnetite rich lenses up to 5 by 2 m (Eaton, 2003). Chip sampling of magnetite rich material in 1993 returned weakly anomalous values (0.12 g/t gold and 0.08% copper over 3.0 m). The surrounding altered rocks also yielded weakly anomalous values (0.07 g/t gold and 0.21% copper over 3.0 m). The main outcrop is bordered along its south and west sides by iron oxide cemented overburden (ferricrete). Chip samples of ferricrete produced slightly above background to highly anomalous values (>1.00% copper and 7.4 g/t gold over 1.1 m and 0.32% copper and 4.5 g/t gold over 3.0 m). In 1998 a section of the ferricrete was removed to reveal pyrrhotite and magnetite rich skarn, a chip sample across which assayed 2.2 g/t gold and 0.33% copper. In 2004 two trenches were completed to the south of the outcrop and exposed a porphyry dyke below the ferricrete. Chip samples across the dyke yielded weakly anomalous gold and copper values (Figure 18).

Hand trenches dug in 1993 and 1998 immediately east of the main outcrop uncovered a 7.5 m by 5.0 m area of skarnified, sulphide rich KRPS dyke. Two lines of continuous chip samples taken in 1998 formed an X pattern across the centre of this exposure and averaged 2.0 g/t gold and 4.48% copper over 4.8 m and 4.4 g/t gold and 4.91% copper over 6.6 m. Silver values are much higher than usual on the property, ranging from 41.0 to 47.4 g/t (Eaton, 2003). This skarn is cut by a post mineralization diorite dyke. Mapping in 2002 suggests that the mineralization is bounded by stratigraphic contacts on its southeastern and northwestern sides, is cut off or offset by a fault on its southwestern side and continues at least 3 m further to the northeast under talus and soil (Eaton, 2003).

Five diamond drill holes were designed to test Band 3 at depth. ARN-16 was projected to intersect the band 45 m northwest of the main outcrop. It intersected narrow weakly mineralized pervasive skarn intervals that might be the extension of Band 3 but then entered a shear zone. The remainder of that hole encountered unmineralized KRPS dykes. ARN-11 was designed to intersect the band just west of the main outcrop. No skarn mineralization was encountered prior to the hole being abandoned in the shear zone. The other three holes encountered limestone and marble intervals up to 7.5 m wide and narrower pervasive skarn intervals but all returned disappointing assays.

PROPERTY GEOCHEMISTRY

Geochemical soil and stream sediment surveys were conducted on the Arn property in 1988 by Kluane Joint Venture, in 1993 by Mendocino Resources Ltd., in 1998 by Nordac Resources Ltd., and in 2002 and 2003 by ATAC Resources Ltd. No soil sampling was done in 2004. Grid soil sampling focussed on the areas east of Miles Creek and west of Sanpete Creek, and only reconnaissance soil geochemical sampling has been done over the remainder of the property (Figure 3).

The soil geochemical signature associated with gold mineralization at the Arn property is atypical in that many pathfinder elements for gold (arsenic, antimony, mercury etc.) are absent or only sporadically anomalous (Table VII). Silver and bismuth correlate moderately with gold but are present in low concentrations. Copper and iron weakly correlate with gold. Gold and copper soil geochemical results are shown on Figures 41 and 42, respectively. Gold values are considered to be moderately anomalous if they exceed 50 ppb and strongly anomalous if they are greater than 100 ppb. The thresholds for moderately and strongly anomalous copper values are considered to be 200 and 500 ppm, respectively. Geochemical response in the vicinity of the known zones of bedrock mineralization is described in the following paragraphs.

TABLE VII
COEFFICIENTS OF CORRELATION FOR SOIL SAMPLES COLLECTED IN 2003

	Ag	As	Au	Bi	Cu	Fe	Mo	Pb	Sb	Zn
Ag	1.00	0.22	0.38	0.40	0.45	0.43	0.19	0.56	0.43	0.17
As	0.22	1.00	0.04	0.13	0.19	0.15	0.03	0.25	0.52	0.29
Au	0.38	0.04	1.00	0.27	0.20	0.15	0.11	0.15	-0.06	0.05
Bi	0.40	0.13	0.27	1.00	0.22	0.02	-0.01	0.27	-0.15	0.01
Cu	0.45	0.19	0.20	0.22	1.00	0.55	0.32	0.24	0.18	0.21
Fe	0.43	0.15	0.15	0.02	0.55	1.00	0.37	0.28	0.06	0.45
Mo	0.19	0.03	0.11	-0.01	0.32	0.37	1.00	0.09	-0.15	0.02
Pb	0.56	0.25	0.15	0.27	0.24	0.28	0.09	1.00	0.31	0.26
Sb	0.43	0.52	-0.06	-0.15	0.18	0.06	-0.15	0.31	1.00	0.01
Zn	0.17	0.29	0.05	0.01	0.21	0.45	0.02	0.26	0.01	1.00
Sum	3.23	1.82	1.28	1.17	2.57	2.47	0.97	2.41	1.16	1.56
Count	386	641	608	130	655	652	373	626	134	655

Strong positive coefficient of correlation (> 0.50)
Moderate positive coefficient of correlation (> 0.25 < 0.50)
Weak coefficient of correlation (< 0.25)

Soil samples taken near **Zone A** returned only moderately anomalous values for copper and gold. This relatively subdued response may be due to burial of mineralized material by talus and soil derived from unmineralized units located further up the gully.

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FIGURE 41
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY
ARN PROPERTY

SCALE 1:20,000
0 200 400 600 800 1000m

DRAFTED/REVISED BY: DJT/TCB

FILE: ...\FIG 41 - GOLD GEOCHEMISTRY | DATE: JANUARY 2005

Approximate property boundary

SAMPETE CREEK

MILES CREEK

P

O

Q

M

L

K

J

N

A+B

C

D

E

F

G

H

6,872,000 N

6,870,000 N

513,000 E

515,000 E

517,000 E

★ 2002 and 2004 drill area

✳ Zone of mineralization

Creek

Claim boundary

Limit of soil geochemical grid

Reconnaissance soil line

Contoured Grid Geochemistry

≥ 200 ppb Au

≥ 100 < 200 ppb Au

≥ 50 < 100 ppb Au

Reconnaisance Soil Geochemistry

≥ 200 ppb Au

≥ 100 < 200 ppb Au

≥ 50 < 100 ppb Au

True North
0°13'
28°58'
Grid North
Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 42
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY
ARN PROPERTY

SCALE 1:20,000
0 200 400 600 800 1000m

DRAFTED/REVISED BY: DJT/TCB

FILE: ..\FIG 42 - COPPER GEOCHEMISTRY | DATE: JANUARY 2005

Approximate property boundary

SANPETE CREEK

MILES CREEK

6,872,000 N

6,870,000 N

513,000 E

515,000 E

517,000 E

P
O
Q
M
L
K
N
J
I
A+B
F
G
H
D
C
E

★ 2002 and 2004 drill area

✳ Zone of mineralization

Creek

Claim boundary

Limit of soil geochemical grid

Reconnaissance soil line

Contoured Grid Geochemistry

≥ 1000 ppm Cu

≥ 500 < 1000 ppm Cu

≥ 200 < 500 ppm Cu

Reconnaisance Soil Geochemistry

≥ 1000 ppm Cu

≥ 500 < 1000 ppm Cu

≥ 200 < 500 ppm Cu

True North
0°13'
28°58'
Grid North
Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

Soil sample values for copper and gold in the area of **Zone B** are stronger than those at Zone A. The best soil geochemical response was from a sample taken about 50 m directly downslope of the mineralized trenches, which returned 1000 ppb gold and 2650 ppm copper. It is uncertain whether this reflects downhill dispersion or an extension of the mineralization to the west.

Zone C is coincident with an area of moderate soil geochemical response. The best analyses (1000 ppb gold and 837 ppm copper) were obtained from samples directly downslope from one of the mineralized outcrops. The soil geochemical response appears to correlate directly with the known bedrock occurrences.

Zones D and E are associated with large areas of strongly anomalous soil geochemical response. Peak values reach 1080 ppb gold and 852 ppm copper (Zone D) and 1350 ppb gold and 5780 ppm copper (Zone E). A bedrock source which could account for these values has not been located to date.

The highest soil geochemical values at **Zone F** are located downslope from the mineralized bedrock exposures. Peak values are 1145 ppb gold and 416 ppm copper.

Zone G produced moderately anomalous gold and copper soil geochemical values, the best of which are located directly downhill from known mineralization.

At **Zone H**, soil sampling outlined a 200 m long by 100 m wide gold and copper anomaly encompassing the exposed mineralization. The anomaly is located in a gully striking subparallel with the Arn Fault. Known faults on the property are recessive features and this gully may be the surface trace of a splay from the Arn Fault. The soil geochemical anomaly at Zone H is the strongest on the property and is open to the east, trending uphill and off the soil grid. The peak value of 8370 ppb gold was returned from a sample taken uphill from the exposed skarn mineralization, in an area covered by large blocky diorite talus. The highest copper value of 4420 ppm was located further downhill.

Zone I lies within a 500 m long by 50 to 150 m wide gold soil geochemical anomaly. Copper results are sporadic. Peak values in this area are 3510 ppb gold and 971 ppm copper. The anomalous values are mostly north of the Arn Fault and exhibit considerable downslope dispersion.

Zone J is not marked by a soil geochemical anomaly. This may be due to sample quality because the surrounding area is mostly covered by glacial till or creek gravels.

Zone K also lacks an anomalous soil geochemical signature. The showing is isolated within a creek bed, thus soil samples taken on adjacent hillsides would not have included material derived from the mineralized exposure. Till cover probably accounts for the lack of geochemical response downhill from the zone.

Zone L lies within a patchy cluster of moderate to strong gold and copper values. This type of discontinuous geochemical response is consistent with glacial transportation of mineralized float. Peak values are 181 ppb gold and 643 ppm copper.

Zone M was not covered by the grid sampling. Reconnaissance soil samples taken downhill from this showing and further north along the west side of the cirque produced a series of moderately to strongly anomalous gold and copper values. The highest values come from areas where the mineralized skarns and their associated dykes are mostly covered by unmineralized talus eroding from Dezadeash clastic sediments on cliffs near the ridge top.

Zone N partially coincides with an area of anomalous copper and gold values. Peak values are relatively low (113 ppb gold and 259 ppm copper) and do not suggest there are significant areas of well mineralized rock within this well exposed creek basin.

Zones O and P were not covered by grid sampling but reconnaissance soil geochemical sampling yielded two moderately anomalous gold values. Copper values were moderately to strongly anomalous but are explained by the known mineralization.

Zone Q was not covered by grid sampling and no reconnaissance soil samples were collected downhill from this area.

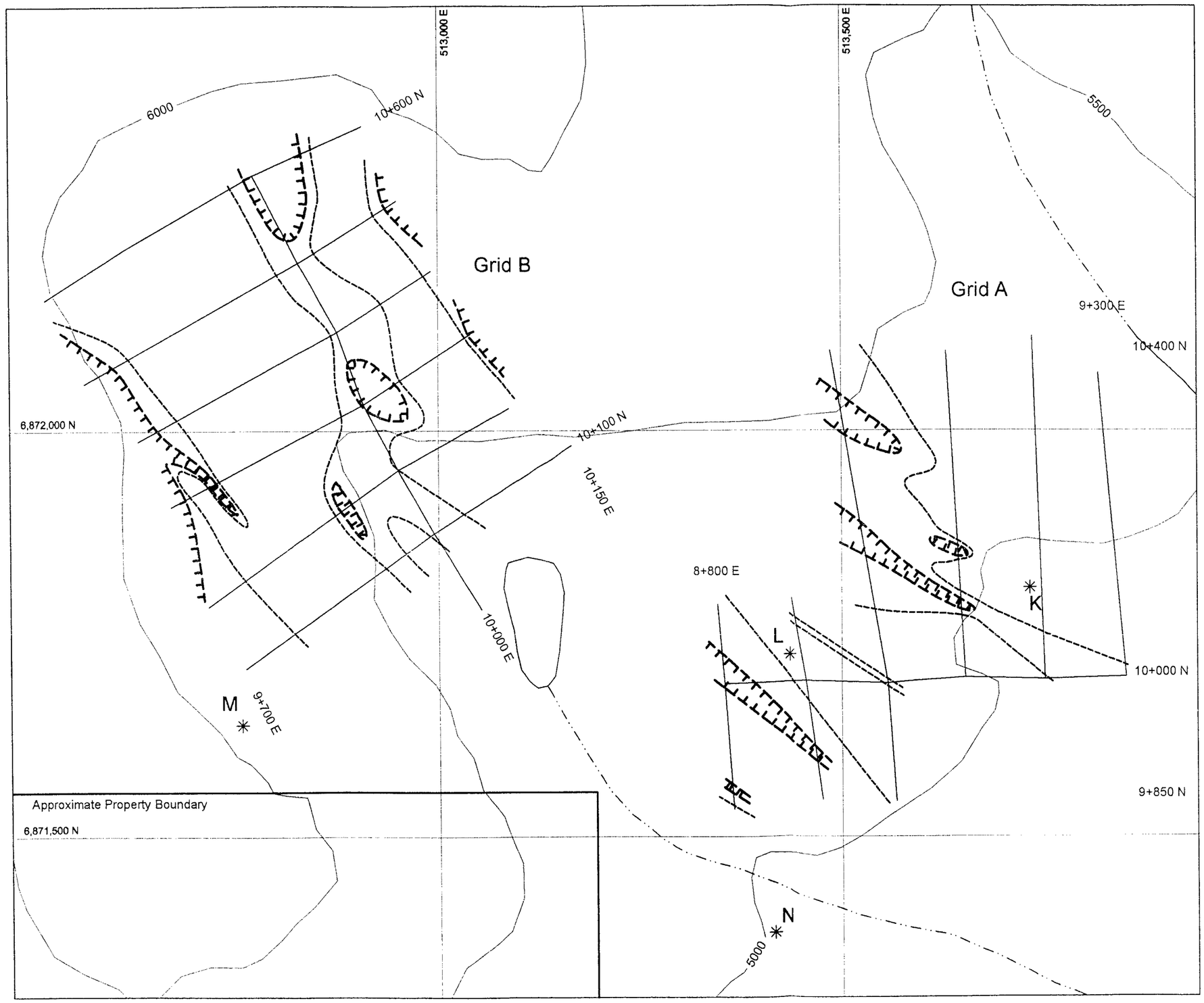
The soil geochemical survey results are consistent with those expected for gold skarn mineralization in the geomorphological setting on the Arn property. In most areas, the results appear to be a reliable indicator of bedrock mineralization.

PROPERTY GEOPHYSICS

In 2004 ground fluxgate magnetometer surveys were conducted on grids in the western part of the Arn property (Figure 43). The eastern part of the property had been previously tested with VLF-EM and total magnetic field surveys (Figures 3 and 44).

The 2004 geophysical surveys were conducted with a fluxgate magnetometer by the geological crew. Survey control was provided by handheld Garmin ETrex GPS units with accuracy of ±10 m. The surveys were conducted with base stations established at the intersection of the baseline and each grid line. Grid lines were spaced 100 m apart and readings were taken at a spacing of 12.5 m. Each grid line was surveyed by recording the magnetometer reading and time of that reading at the base station, followed by recording of similar data at each station on that grid line and lastly a second reading at the original base station. Station readings were later corrected for geomagnetic variation by comparing the base station readings and spreading the difference progressively across the grid line readings. Magnetic relief is 2200 gamma over the surveyed area. Values in excess 500 gamma are contoured as moderate highs and in excess of 1000 gamma as strong highs.

The surveys were conducted on two grids. Grid A covers Zones K and L and encompasses an area approximately 500 by 500 m with grid lines orientated at 360°. Grid B is located in a cirque directly north of Zone M. It covers a 500 by 450 m area with grid lines orientated at 065°. Due to steep cliffs near Zone M and at the head of the cirque, this magnetometer grid lies slightly east of the Zone M trend. It was designed to explore for parallel, pyrrhotite- and/or magnetite-bearing skarn zones that might be buried under talus or glacial debris and could be the source of mineralized float at Zone L.



Geophysical grid lines

Strong positive magnetic response

Moderate positive magnetic response

✳ K Mineralized showing

True North

0°13'

28°58'

Grid North

Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927
Contour Interval 500 feet

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FIGURE 43

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MAGNETIC SURVEY
ARN PROPERTY

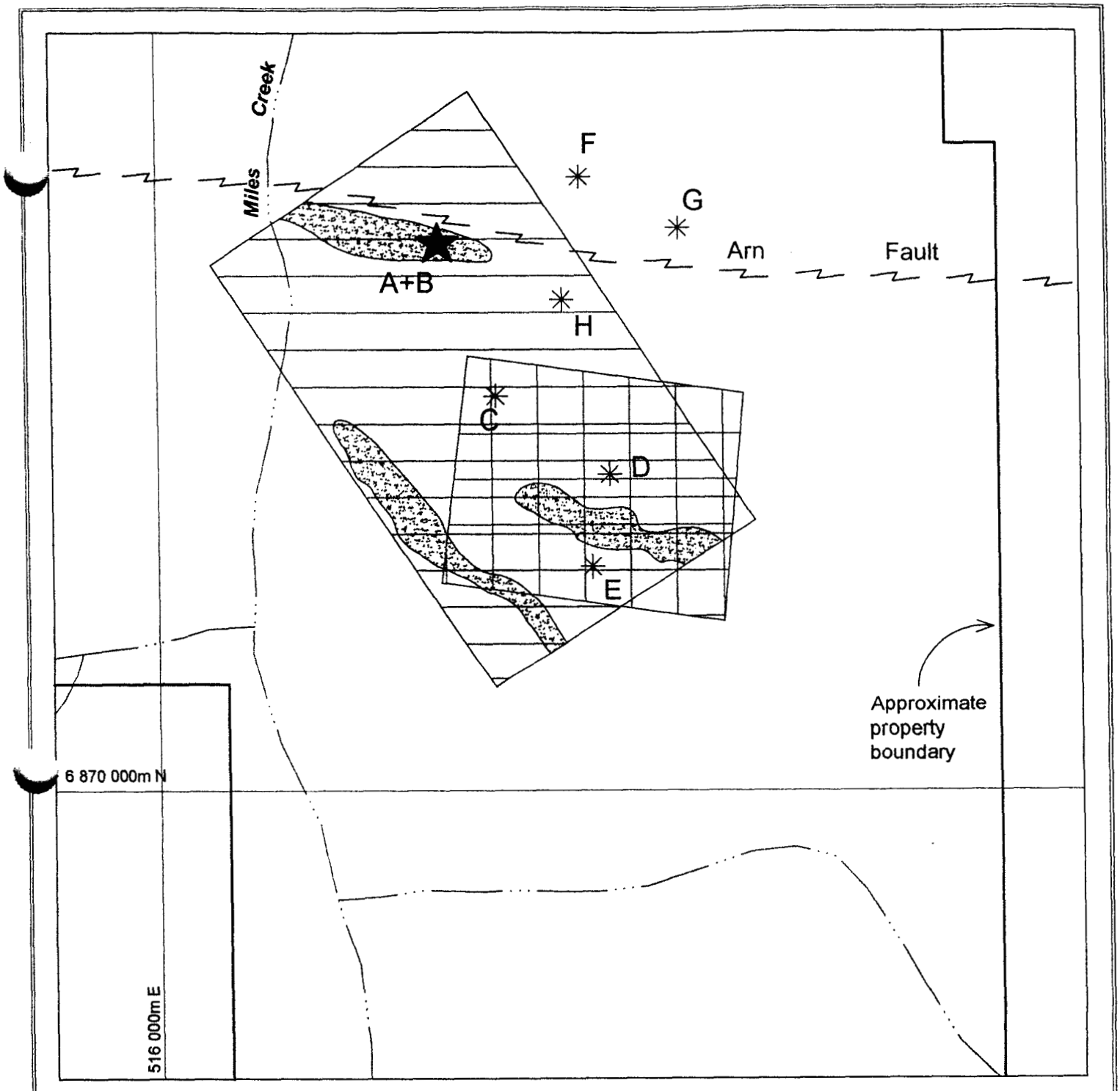
SCALE 1:5000

0 50 100 150 200 250m

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FILE: \FIG 43 - 2004 GEOPHYSICAL SURVEY

DATE JANUARY 2005



Zones of mineralization

2002 drill area

Fraser Filter VLF-EM >3%

1988 geophysical grid

1993 geophysical grid

True North

0°13'

28°58'

Grid North

Magnetic North

NTS 115 F/15
The 1985 Magnetic Bearing is 28°58'
Annual Change Decreasing 4.4'
UTM Zone 7
North American Datum 1927

KLONDIKE GOLD CORP.
ATAC RESOURCES LTD.

FIGURE 44

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOPHYSICS ZONES A-G
ARN PROPERTY

SCALE 1:1000

0 100 200 300 400 500 m

DRAWN/REVISED BY: DJT/TCB

FILE: FIG 43 GEOPHYSICS ZONES A-G

DATE: JANUARY 2005

The magnetometer survey on Grid A identified three northwest trending anomalies. The anomalies are subparallel to the projected trace of Zone K, but no anomalous readings were obtained directly above the mineralized trench. The survey on Grid B outlined three north-northwest trending anomalies. It is believed that the positive anomalies represent magnetite or pyrrhotite skarn zones developed alongside or within dykes. Prospecting in the area of Grid B failed to identify any mineralized float, possibly due to excessive scree coming down from cliffs uphill from the anomalies. These anomalies are located within the probable source area for the magnetite- and pyrrhotite-rich float comprising Zone L.

Geophysical surveys were conducted in the eastern part of the Arn property in 1988 by Delta Geoscience Ltd. of Delta B.C. and in 1993 by Amerok Geosciences Ltd. of Whitehorse, Y.T. (Power, 2003). These surveys consisted of VLF-EM and total magnetic field surveys. The surveys were conducted with base station magnetometers located onsite and all total field data were corrected for temporal geomagnetic variation. The 1988 survey was conducted on grid lines trending 212° and at a station spacing of 20 m. The 1993 survey was conducted on grid lines trending 240° and at a station spacing of 10 m. Both surveys used the VLF-EM transmitter at Jim Creek, Washington (24.8 KHz) as the primary station. The apparent azimuth of the primary station was 175°. The in-phase and quadrature data are accurate to approximately $\pm$ 2% of the primary field and the data are of good quality.

The total magnetic field surveys in the area of Zones A to G were useful in defining general geological trends but were not of much use in detecting or tracing out mineralization. The VLF-EM surveys were useful in defining the general location of structures which appear to partially control bedrock mineralization. Figure 44 illustrates the location of significant VLF-EM conductors relative to the known occurrences. Mineralization at Zones A, B, C, D, E and H are in the vicinity of VLF-EM conductors but the surveys did not accurately pinpoint the zones themselves. It appears that the mineralization is related to structures but forms in permissible horizons or zones adjacent to the structures themselves (Power, 2003).

SAMPLING METHODOLOGY, ANALYTICAL PROCEDURES AND VERIFICATION

The following paragraphs outline security, sampling methodology, analytical procedures and verification techniques used for soil, rock and drill core samples collected on the Arn property in 2004.

All samples were transported from the property to Whitehorse by truck, escorted by the geological crew, and then shipped via Greyhound Courier Express to either ALS Chemex in North Vancouver, B.C. or Acme Analytical Laboratories in Vancouver, B.C. ALS Chemex is certified to meet CAN-P-1579 standards for chemical analysis by the Canadian Standards Council and is certified to ISO 9001 by Bureau Veritas Quality International of London, United Kingdom. Acme is also certified to meet ISO 9001 accreditation.

Soil geochemical samples were collected from the bottom of hand trenches at Zone K, which did not reach bedrock. Each sample location is marked by a 0.5 m long wooden lath inscribed with

the sample number. The sample location was recorded on a handheld GPS unit. The sample material was placed in pre-numbered heavy gauge paper bags.

All soil geochemical samples were sent to ALS Chemex where they were dried, sieved to -180 micron (80 mesh) and analyzed for 34 element using aqua regia acid digestion followed by induced coupled plasma with atomic emission spectroscopy (ICP-AES). The samples were also analyzed for gold by taking a 30 g split, preparing it by fire assay and finishing with ICP-AES. Appendix VI contains the Certificates of Analysis.

Rock specimens and chip samples were placed in double plastic bags with a sample number inserted. Their locations were surveyed and marked in a manner similar to soil samples. They were sent to ALS Chemex where they were crushed to better than 70% minus 2 mm before a 250 g split was taken and pulverized to 85% minus 75 micron. All samples were then analyzed for gold using a fire assay preparation followed by atomic absorption spectroscopy (AAS) and 34 other elements using an aqua regia acid digestion followed by ICP-AES.

Drill core samples were collected using the following procedures:

1) Core was washed and measured.
2) Core was geotechnically logged using standardized techniques outlined in the geotechnical logging manual (Appendix III).
3) Core was geologically logged and sample intervals were designated based on geological boundaries, drill blocks or maximum 3.2 m lengths in areas of unmineralized lithologies with uniform recovery. Core recovery was also calculated for each sample interval.
4) Core was split in half with an impact core splitter, then half of the core was sent for analysis and the other half was returned to the core box.
5) Samples were double bagged in 6 mm plastic bags, a sample tag was placed in each sample bag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were marked on the outside of that bag with felt pen.

Diamond drill samples were sent to ALS Chemex where they were then weighed, dried, and crushed to better than 70% minus 2 mm. The samples were then split using a riffle splitter to obtain a 250 g split which was pulverized to better than 85% minus 75 micron. All samples were analyzed for 34 elements using aqua regia acid digestion followed by ICP-AES and a 30 g split was analyzed for gold using fire assay preparation with AAS finish. If copper values exceeded the upper detection limit for ICP analysis, the sample was assayed for that metal. If gold values exceeded 10 g/t, they were reassayed using fire assay with a gravimetric finish.
Drill core sample data from 2004 were examined and verified by the author by performing the following tasks:

1) The author personally logged the core from all holes in the 2004 drill program and directly oversaw the sampling procedure.

2) Reported drill core assay results were checked against sample numbers in the drill logs, synoptic logs and the original assay certificates to ensure accurate reporting.
3) Blank samples were shipped along with the drill core samples to test for contamination during sample preparation and analysis.
4) Check assays were performed on selected drill core intervals to test for reproducibility and reliability.

A blank sample was inserted after every 20th drill core sample and sent to ALS Chemex along with the drill core samples. A total of 435 drill core samples and 22 blank samples were sent for analysis; thus the blank samples comprise about 5% of the total. Statistical data for the blank samples sent from the Arn property are shown in Table VIII. The material used for the blank samples came from a barren limestone outcrop in an abandoned copper mine near Whitehorse. Prior to the 2004 exploration program this material was crushed, screened to approximately 0.5 to 1.0 cm in size and thoroughly mixed. Before sealing this material in fiberglass bags for transportation to the property, eight random samples were extracted. Four samples were sent to ALS Chemex and the other four to Acme. The coarse rejects and pulps for each sample sent to Acme were then sent separately to ALS Chemex and analyzed. Table IX shows the statistical data for the 16 analyses performed on this material.

Comparison between the blank sample materials sent from the Arn property and the random samples taken in Whitehorse shows strong agreement. The higher standard deviations for copper (Cu), phosphorus (P), strontium (Sr) and manganese (Mn) are the same in both sample groups and may reflect an intrinsic characteristic of the rock. Two significant deviations were noted between the data sets, both involving gold assays for check samples that followed gold rich core samples. Blank sample M012620 was inserted immediately following an interval of magnetite skarn that returned 1.58 g/t gold (M012619) and the blank sample returned 0.058 g/t gold which is 10 times the expected value. The second anomalous blank sample (M012861) was inserted following an interval of pyrite skarn that assayed 66.30 g/t gold (M012860) and that blank sample returned 0.015 g/t gold, three times the expected value. The results for other elements from both of these blank samples were not anomalous and fell within the expected averages. This data suggests that some contamination did occur during sample preparation and analysis with respect to gold.

TABLE VIII
STATISTICAL DATA FOR BLANK SAMPLES FROM ARN PROPERTY

	Au	Ag	Al	As	B	Ba	Bi	Ca	Co	Cr	Cu	Fe	K
Minimum	<0.005	<0.2	0.23	<2	10	20	<2	22.60	<1	7	24	0.25	0.03
Maximum	0.058	0.5	0.49	12	20	60	2	>25.00	2	15	184	0.53	0.06
Mean	-	0.34	0.33	9	11	33	-	23.41	2	10	88	0.39	0.04
Std. Dev	-	-	0.07	5	4	14	-	0.55	1	3	55	0.08	0.01

	Mg	Mn	Mo	Na	Ni	P	Pb	Sc	Sr	Ti	V	Zn
Minimum	9.91	107	<1	0.02	2	220	<2	1	312	0.01	6	8
Maximum	11.15	173	1	0.05	10	310	8	1	448	0.04	15	59
Mean	10.24	140	1	0.03	4	250	5	1	351	0.02	9	15
Std. Dev	0.29	16	-	-	2	23	3	-	46	0.00	2	6

TABLE IX
STATISTICAL DATA FOR BLANK SAMPLES FROM WHITEHORSE

	Au	Ag	Al	As	B	Ba	Bi	Ca	Co	Cr	Cu	Fe	K
Minimum	<0.005	0.2	0.19	3	7	30	<0.1	20.50	1	6	11	0.36	0.03
Maximum	0.005	0.3	0.48	10	20	60	0.2	22.20	2	14	68	0.58	0.06
Mean	-	0.2	0.34	6	12	43	-	21.10	2	10	21	0.44	0.04
Std. Dev	-	0.1	0.09	2	4	10	-	0.56	1	3	15	0.06	0.01

	Mg	Mn	Mo	Na	Ni	P	Pb	Sc	Sr	Ti	V	Zn
Minimum	8.10	124	0.7	0.02	2	230	3	0.7	286	0.02	8	16
Maximum	10.55	162	2.0	0.04	5	280	12	1.0	416	0.03	15	26
Mean	9.41	142	1.3	0.03	4	255	7	1.0	356	0.02	10	20
Std. Dev	0.83	10	0.7	0.01	1	15	2	0.1	36	0.00	2	3

Check assays were taken after every 20th drill core sample. A total of 22 of the 435 drill core sample intervals were check assayed. The procedure for handling these samples was the same as for regular core but involved some additional steps. After the core was split in half the first time, it was split again into quarters. One quarter was returned to the core box while the other was double bagged in 6 mm plastic and assigned a different sample number from the original sample number. At the end of the field program, check samples were placed in fiberglass bags sealed with a metal clasp, and transported to Whitehorse with the geology crew. From there they were shipped to Acme via Greyhound. At Acme each sample was dried and crushed to better than 70% passing 10 mesh, before a 250 g split was taken and pulverized to better than 95% minus 150 mesh. All check assay samples were then analyzed for 36 element using a 0.5 g split leached with aqua regia followed by induced coupled plasma with mass spectroscopy (ICP-MS) finish and for gold using a 30 g split that underwent fire assay preparation with ICP-AES finish. After analysis by Acme the coarse rejects and pulverized fractions for each sample were combined and sent to ALS Chemex. There the material was prepared and analyzed in the same manner as regular core samples. This process resulted in three different analyses for each check interval: original assay, check assay and reanalysis of check assay.
These three data sets were examined by creating three different tables showing coefficients of correlation: between original assay and check assay (Table X), between check assay and reanalysis of check assay (Table XI) and between original assay and reanalysis of check assay (Table XII). The strongest overall correlation was between check assay and reanalysis of check assay where the coefficients of correlation were almost all 1.00. This shows good agreement between the laboratories and suggests the assay results are reliable. The coefficients of correlation for the other two tables had variations but both tables showed similar trends in values.

TABLE X
COEFFICIENTS OF CORRELATION BETWEEN ORIGINAL ASSAY AND CHECK ASSAY

Au	Ag	Al	As	B	Ba	Bi	Ca	Co	Cr	Cu	Fe	K
.99	0.97	0.71	0.76	0.58	0.76	-	0.48	0.97	0.97	0.99	0.64	0.60

Mg	Mn	Mo	Na	Ni	P	Pb	S	Sc	Sr	Ti	V	Zn
0.97	0.88	0.60	0.92	0.95	0.61	0.57	0.78	0.89	0.92	0.67	0.74	0.93

TABLE XI
COEFFICIENTS OF CORRELATION BETWEEN CHECK ASSAY AND REANALYSIS OF CHECK ASSAY

Au	Ag	Al	As	B	Ba	Bi	Ca	Co	Cr	Cu	Fe	K
.99	0.98	.99	0.97	0.85	0.98	0.81	.99	.99	.99	.99	0.97	0.99

Mg	Mn	Mo	Na	Ni	P	Pb	S	Sc	Sr	Ti	V	Zn
.99	0.99	0.90	0.99	.99	0.95	0.62	.99	0.99	.99	0.98	0.96	.99

TABLE XII
COEFFICIENTS OF CORRELATION BETWEEN ORIGINAL ASSAY AND REANALYSIS OF CHECK ASSAY

Au	Ag	Al	As	B	Ba	Bi	Ca	Co	Cr	Cu	Fe	K
.99	.99	0.70	0.81	0.65	0.64	-	0.52	0.97	0.98	0.99	0.43	0.63

Mg	Mn	Mo	Na	Ni	P	Pb	S	Sc	Sr	Ti	V	Zn
0.98	0.88	0.57	0.93	0.94	0.51	0.85	0.76	0.91	0.92	0.66	0.72	0.94

DISCUSSION AND CONCLUSIONS

The Arn property has potential to host significant gold-copper skarn mineralization within carbonate and mafic volcanic rocks that are intruded by intermediate dykes and sills. In some areas (notably Zones A and B) the mineralized skarns and dykes are intruded by barren post mineralization dykes and dismembered by post mineralization faults. Thus, the continuity of mineralized skarn bands is disrupted.

The highest gold and copper values are associated with pervasively skarnified limestone and basalt but significant mineralization is also found in intrusive rocks which have partially or wholly assimilated blocks of calcareous material prior to cooling. Gold grades generally correlate directly with sulphide content. Therefore, the presence of sulphides (chalcopyrite, pyrites and/or pyrrhotite) appears to be the key to finding gold on the property. Magnetite rich material sometimes hosts gold.

Gold has a moderate positive correlation with copper, silver, bismuth and sulphur but no single pathfinder element can be used to geochemically locate gold on the property. The highest grade gold occurrences usually accompany copper mineralization but there are many locations where samples return copper grades in excess of 1% with low gold values. Similarly, there are some areas where rocks returned gold grades in excess of 10 g/t and copper values less than 1%, notably at Zones A, J, L and M. Consequently, copper serves as a marginally useful pathfinder to locate gold mineralization.

The next stage of exploration should include further detailed mapping and hand trenching, better controlled magnetometer surveys and additional diamond drilling. The detailed mapping should better define controls on mineralization and skarnification in lightly explored areas (particularly zones D, E, K, M, O, P, and Q), and provide additional structural and stratigraphic data to identify areas where drilling could test for stronger, buried mineralization. Trenching should start near known well mineralized skarn showings and progress along strike, looking for potential ore shoots. Wherever possible, the trenches should be deepened until they encounter unoxidized sulphide mineralization. Magnetometer surveys appear to be successful in outlining magnetite- or pyrrhotite-bearing skarn zones developed alongside or within dykes and should be used in overburden covered areas where surface exposures are limited (specifically along strike from Zones A, B, K, L and M). Detailed magnetic surveys should pinpoint favourable locations for hand trenches and/or drill holes.

Drilling should be directed toward areas that could host large, metal enriched skarns. It is suspected that the best mineralization will be found in areas where numerous KRPS dykes intrude limestone or basalt. Future drilling is expected to initially focus on Zones K and Q, under talus at and north of Zone M, and under glacial material west of Zones A and B.

The mapping, hand trenching and geophysical surveys can be done prior to, or in conjunction with drilling but will likely require fly camps. Drilling will need daily helicopter support if it tests targets in the Miles Creek and Sanpete Creek drainages from a single camp; but an onsite helicopter could be eliminated if the drill explored zones in one drainage then the camp were moved to the other drainage to begin drilling there. The minimum first phase program is budgeted at $300,000 to include the surface work and approximately 700 to 900 m of drilling, depending upon whether or not daily helicopter support is required. The program should begin in early June so that additional drilling can be done later in the summer if initial results are favourable.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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APPENDIX 1

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Thomas C. Becker, geologist, with business and residential address at 5028 42nd Avenue, Red Deer, Alberta, T4N 2Z9, do hereby certify that:

1. I graduated from the University of Alberta in 1989 with a B.Sc. (Honours) in Geological Sciences and from the University of British Columbia in 2002 with a B.Ed.

2. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (registration number 20021).

3. From 1984 to 2001 and in 2004 I was actively engaged in mineral exploration in the Yukon Territory.

4. I am responsible for the preparation of all sections of this Assessment Report and it is based on publicly available reports, maps, and material generated during the 2004 exploration program. I supervised the 2004 program and collection of samples at the Arn property.

5. I am familiar with the belt of rocks within which the property lies and the exploration model.

6. I have no interest either directly or indirectly in ATAC Resources Ltd., Klondike Gold Corp. or the Arn property.

Dated at Vancouver, B.C., this 16th day of March 2005.

T.C. Becker, B.Sc., P.Geo.

APPENDIX II

ROCK GEOCHEMICAL VALUES

ROCK GEOCHEMICAL VALUES - Separated by Lithologies and Skarn Types

Results displayed in this table include samples from the 2002 and 2004 diamond drill holes and should be used for exploration planning purposes only. Values exceeding upper detection limits and below lower detection limits are not included. All values in ppm except Ca, Fe, K, Mg and S which are in %.

Rock Type KRA1 Number 10

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	8	5	10	10	10	10	10	10	10	10	10	8	10	7	10	10
Maximum	0.45	1.6	41.0	4.9	29	95	2270	4.8	0.35	1.75	908	15.0	110	6.0	0.62	128
Minimum	<0.01	<0.2	2.0	2.4	10	28	53	2.5	0.09	0.61	329	<1.0	12	<2.0	0.07	30
Average	0.09	0.6	13.3	3.5	22	61	473	3.6	0.16	1.19	634	5.5	59	4.0	0.29	58
Stad. Dev.	0.14	0.5	12.6	0.9	6	27	666	0.7	0.07	0.36	172	5.6	42	2.1	0.16	30

Rock Type KRA2 Number 238

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	184	52	188	238	238	238	238	238	238	238	238	168	238	145	238	238
Maximum	11.29	5.6	154.0	13.1	259	319	7300	24.3	1.10	5.18	5210	41.0	265	28.0	8.92	190
Minimum	<0.01	<0.2	<2.0	0.7	4	3	3	0.9	0.01	0.12	200	<1.0	1	<2.0	0.01	12
Average	0.12	0.4	9.9	4.0	20	43	201	4.8	0.16	1.12	946	2.8	33	4.5	0.36	54
Stad. Dev.	0.75	0.4	13.6	1.9	22	36	590	3.2	0.17	0.62	701	4.3	36	3.4	0.80	22

Rock Type KRA3 Number 77

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	64	28	65	77	77	77	77	77	77	77	77	59	77	61	76	77
Maximum	3.91	4.7	213.0	11.8	439	300	7410	27.3	0.32	3.10	3470	25.0	219	46.0	<10	181
Minimum	<0.01	<0.2	<2.0	1.3	2	8	5	0.7	0.02	0.25	247	<1.0	2	<2.0	0.02	19
Average	0.12	0.4	11.8	4.9	23	53	248	5.8	0.11	1.06	1019	2.3	32	5.5	0.30	57
Stad. Dev.	0.46	0.5	25.0	2.0	49	55	842	4.8	0.06	0.61	569	3.1	37	6.0	0.37	25

Rock Type KRDR Number 20

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	16	3	14	20	20	20	20	20	20	20	20	17	20	16	19	20
Maximum	0.05	0.3	18.0	6.3	32	301	406	9.2	0.19	3.95	1805	4.0	192	6.0	0.57	89
Minimum	<0.01	<0.2	<2.0	0.8	6	8	1	1.6	0.04	0.55	333	<1.0	3	<2.0	<0.01	19
Average	0.01	0.2	5.6	4.1	18	59	101	4.3	0.11	1.47	855	1.6	42	3.6	0.21	53
Stad. Dev.	0.01	0.1	4.3	1.4	8	86	97	1.7	0.04	0.99	330	1.0	60	2.0	0.17	17

Rock Type DFMS Number 10

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	5	-	7	10	10	10	10	10	10	10	10	2	10	9	10	10
Maximum	0.01	-	9.0	4.0	21	47	113	5.7	0.41	1.72	1060	1.0	31	5.0	0.24	112
Minimum	<0.01	-	<2.0	2.1	6	13	13	1.3	0.10	0.60	164	<1.0	13	<2.0	0.03	27
Average	0.01	-	5.0	2.6	12	32	50	2.8	0.20	0.91	424	1.0	21	3.2	0.10	46
Stad. Dev.	0.00	-	3.3	0.6	5	11	36	1.2	0.11	0.33	266	-	6	1.5	0.07	25

Rock Type MABL Number 11

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	8	2	10	2	10	11	11	11	11	11	11	8	10	10	7	11
Maximum	0.06	1.3	27.0	>25	111	39	1600	7.8	0.21	1.34	1295	4.0	19	8.0	4.60	69
Minimum	<0.01	<0.2	3.0	2.5	<1	6	10	0.2	0.01	0.16	453	<1.0	1	2.0	<0.01	2
Average	0.03	1.0	8.7	12.6	16	13	295	1.7	0.03	0.35	646	2.3	8	3.7	0.88	24
Stad. Dev.	0.02	-	7.3	-	32	9	538	2.3	0.06	0.34	249	1.4	7	2.3	1.36	26

Rock Type CHLS Number 28

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	26	9	19	28	28	28	28	24	28	28	28	18	28	23	28	28
Maximum	7.33	2.2	66.0	13.9	153	110	2660	>15	0.26	1.79	7380	4.0	119	12.0	7.08	212
Minimum	<0.01	<0.2	<2.0	3.4	5	4	6	2.0	0.01	0.21	414	<1.0	2	<2.0	0.02	20
Average	0.41	0.8	20.5	6.9	25	33	444	7.4	0.09	0.78	1746	1.6	27	6.7	1.23	57
Stad. Dev.	1.38	0.6	19.7	2.9	31	23	607	5.4	0.07	0.53	1873	1.1	32	4.2	1.66	48

Rock Type NFVC Number 8

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	6	1	8	8	8	8	8	8	8	8	8	7	8	2	8	8
Maximum	0.20	0.2	10.0	4.9	28	292	288	10.8	0.66	4.00	1680	1.0	143	5.0	0.46	134
Minimum	<0.01	<0.2	2.0	4.1	16	103	20	5.1	0.06	0.61	737	<1.0	36	<2.0	0.08	61
Average	0.05	-	5.3	4.7	21	152	91	7.8	0.42	1.30	1059	1.0	55	3.5	0.22	81
Stad. Dev.	0.07	-	3.3	0.3	4	60	87	2.1	0.18	1.11	293	0.4	36	-	0.12	23

Rock Type SKGA Number 26

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	23	16	21	26	26	26	26	26	26	26	26	16	24	20	26	26
Maximum	5.90	32.7	93.0	13.4	142	82	43000	27.5	0.08	1.24	4510	3.0	142	6.0	6.23	664
Minimum	<0.01	<0.2	<2.0	3.1	5	9	16	4.6	0.01	0.15	1100	<1.0	<1	<2.0	0.15	12
Average	0.34	3.1	22.9	9.3	29	35	2596	9.5	0.03	0.45	1869	1.1	29	3.6	1.32	71
Stad. Dev.	1.15	6.4	24.7	2.8	36	19	8443	4.7	0.02	0.30	659	0.7	34	1.9	1.52	126

Rock Type SKMG Number 20

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	19	13	18	20	20	19	20	16	20	20	20	19	20	10	19	20
Maximum	15.55	17.1	110.0	14.6	315	59	39500	>50	0.31	0.98	2120	8.0	198	33.0	>10	660
Minimum	<0.01	<0.2	<2.0	1.0	4	<1	5	6.6	0.02	0.14	500	<1.0	4	<2.0	0.14	18
Average	1.28	2.2	24.9	6.0	64	34	3534	32.6	0.09	0.44	1208	2.6	39	16.8	2.28	89
Stad. Dev.	3.43	3.8	29.8	3.4	83	15	8796	17.5	0.07	0.25	467	1.8	48	12.3	2.02	143

Rock Type SKMF Number 5

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	5	5	5	5	5	5	5	5	5	5	5	2	5	4	5	5
Maximum	0.99	5.5	48.0	13.4	89	50	15300	19.7	0.20	1.60	2580	2.0	45	6.0	7.41	372
Minimum	0.03	0.3	5.0	5.7	21	28	453	12.4	0.01	0.42	1545	<1.0	4	<2.0	0.84	51
Average	0.25	1.5	18.0	9.9	56	35	3884	16.4	0.11	0.90	2155	1.5	20	3.5	4.29	144
Stad. Dev.	0.42	2.2	17.3	3.2	25	9	6406	3.2	0.08	0.46	434	-	16	2.2	2.51	130

Rock Type SKPO Number 3

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	3	3	2	3	3	3	3	2	3	3	3	3	3	2	2	3
Maximum	0.32	4.4	56.0	7.7	405	44	6950	>50	0.04	0.41	1335	3.0	168	22.0	>10	158
Minimum	0.15	0.4	<2.0	2.5	207	20	1845	23.9	0.01	0.22	555	2.0	13	<2	8.83	27
Average	0.23	2.1	-	5.7	311	34	4182	27.8	0.02	0.33	998	2.3	76	-	8.88	86
Stad. Dev.	0.09	2.1	-	2.8	99	13	2580	-	0.02	0.10	401	0.6	81	-	-	66

Rock Type SKPY Number 10

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	10	10	10	10	10	10	10	9	10	10	10	8	10	6	4	10
Maximum	66.30	48.7	205.0	6.8	597	157	60800	>50	0.12	2.36	2340	3.0	346	14.0	>10	1225
Minimum	0.06	0.6	11.0	1.6	44	4	1545	12.5	0.02	0.09	368	<1.0	11	<2.0	2.98	55
Average	7.16	7.7	44.6	3.8	248	53	10396	27.9	0.05	0.52	1187	1.5	124	7.0	6.32	326
Stad. Dev.	20.80	14.8	58.4	1.9	162	46	17914	10.7	0.03	0.71	521	0.9	120	5.1	3.66	460

Rock Type SKRN Number 23

	Au	Ag	As	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Ni	Pb	S	Zn
Count	23	21	23	23	23	23	23	19	23	23	23	16	23	19	17	23
Maximum	239.00	53.2	167.0	15.1	362	81	65600	>15	0.12	1.92	6250	3.0	314	46.0	>10	1535
Minimum	0.01	<0.2	2.0	2.3	9	5	24	6.7	0.02	0.25	805	<1.0	5	<2.0	0.25	40
Average	12.29	9.7	41.7	6.4	121	30	10920	21.1	0.05	0.68	2059	1.4	91	12.7	3.60	242
Stad. Dev.	49.54	13.5	42.9	3.1	111	18	16165	11.4	0.03	0.46	1604	0.9	83	12.6	2.69	319

APPENDIX III

DIAMOND DRILL HOLE GEOTECHNICAL LOGS

GEOTECHNICAL CORE LOGGING MANUAL

1. From, To and Length

During the drilling process the diamond drillers mark the depth of the hole using wooden blocks. The drill core found between each block is referred to as a run or an interval. For each interval the beginning (From) and end (To) values are recorded on the geotechnical log. The interval length is calculated by subtracting the two values and also recorded.

2. Core recovery

Core recovery gives an indication of the quality of the ground being drilled and the general competency of the rock. It is found by measuring the total length of core recovered from each interval. Because the core is often broken up, the total length of core recovered is often measured by attempting to reassemble the broken pieces. This value is recorded on the log sheet. Dividing the recovered length of core found in the interval by the calculated length of the interval and multiplying by 100 gives the percentage recovered. This value is entered onto the geotechnical log.

3. RQD (Rock Quality Designation)

The RQD is a measure of the fraction of solid core that is longer than 10 cm length. For 'H' core the length increases to 15 cm. It is calculated by measuring the accumulated length of core in each interval, which has a spacing of greater than 10 cm between natural fractures. Drilling induced breaks should not be included. This measured value is recorded on the logging sheet. Dividing the measured length of solid core by the calculated length of the interval and multiplying by 100 will give the percentage RQD. Again this value is entered onto the geotechnical log.

4. Breakage

The degree of breakage is a visual and thus somewhat subjective estimation of the quality of the rock in terms of the number of fractures or breaks.

Breakage	Mean Spacing of breaks or Diameter of Fragments in cm	Description
1	<1.3 cm	Mostly fault gouge with/without minor rock fragments
2	<1.3 cm	Gouge and crushed rock
3	<1.3 cm	Crushed rock with/without minor gouge
4	1.3 to 5.1 cm	Crushed rock – no gouge
5	1.3 to 5.1 cm	Crushed rock – diameter of pieces < 5.1 cm
6	1.3 to 5.1 cm	Broken rock – fracture spacing < 5.1 cm
7	5.1 – 10.2 cm	Mean spacing – 5.1 to 7.6 cm
8	5.1 – 10.2 cm	Mean spacing – 7.6 cm
9	5.1 – 10.2 cm	Mean spacing – 7.6 to 10.2 cm
10	10.2 – 20.3 cm	Mean spacing – 10.2 to 15.2 cm
11	10.2 – 20.3 cm	Mean spacing – 15.2 cm
12	10.2 – 20.3 cm	Mean spacing – 15.2 to 20.3 cm
13	>20.3 cm	Mean spacing – 20.3 to 30.5 cm
14	>20.3 cm	Mean spacing – 30.5 to 35.6 cm
15	>20.3 cm	Mean spacing – > 35.6 cm

5. Hardness

The hardness value is a simple method used to classify the core according to its consistency or hardness. Average rock hardness should be selected for each interval unless a significant length of rock of different strength is present within the interval.

Hardness	Consistency	Field Identification
1	Extremely soft rock	Indented by thumbnail
2	Very soft rock	Crumbles under firm blow of pick end of geology pick; can be peeled by a pocket knife
3	Soft rock	Shallow indentations made by firm blow of geology pick; can be peeled by a pocket knife with difficulty
4	Average rock	Fractures under single blow of hammer end of geology pick; cannot be scraped or peeled with a pocket knife
5	Hard rock	Fractures after more than one blow of hammer end of geology pick
6	Very hard rock	Fractures after many blows with geology pick
7	Extremely hard rock	Can only be chipped with geology pick

6. Weathering

The degree of weathering or oxidation of the core is used to define the upper boundary of unweathered rock and to delineate faults and other zones of intense weathering. The degree of weathering is estimated visually for the solid rock pieces between joints. An average weathering description should be selected for each interval unless a significant length of rock or different weathering grade is present in the interval.

Weathering Nu	Degree of Weathering	Description
1	Residual Soil	Original fabric destroyed
2	Completely Weathered	Original fabric and relic structures remain, but rock is decomposed and friable
3	Highly Weathered	Rock is discoloured and strength is significantly reduced by weathering
4	Moderately Weathered	Rock is discoloured, but rock strength only slightly affected, discontinuous weathering
5	Slightly Weathered	Rock strength unchanged, weathering on joints only
6	Fresh or Unweathered	

7. Cross Joints or Fractures

Cross joints are present in all rock types. The total number of joints in each interval is recoded on the logging form. This value is then divided by the interval length and recoded as joints per metre. Drilling induced breaks should not be included.

8. Bedding Joints or Fractures

Bedding joints are only present in sedimentary rocks. The total number of joints in each interval is recoded on the logging form. This value is then divided by the interval length and recoded as joints per metre. Drilling induced breaks should not be included.

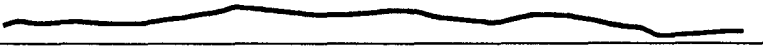
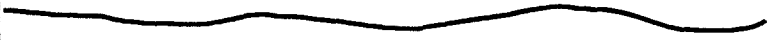
9. Shape

Shape is a qualitative description of the characteristics of the profile of a joint or fracture. In cases where multiple shapes occur within an interval, the lowest applicable shape value should be selected and recorded.

Shape No	Description	Typical Shape Profile
1	Planar	
2	Undulating	
3	Stepped	

10. Roughness

Roughness is a qualitative description of the texture of the surface of a joint or fracture. In cases where multiple roughness values occur within an interval, the lowest applicable value should be selected and recorded.

Roughness	Typical Roughness Profiles
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-22 Logger: Nick Bazowski Date: July 15, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	6.10	6.10	0.53	9	0.00	0	4	* Remarks	5	N/A	0			N/A	N/A	All hardness 4+ but too
6.10	7.62	1.52	0.80	53	0.00	0	4		5	N/A	0			N/A	N/A	crushed to break
7.62	12.19	4.57	1.98	43	0.15	3	4		5	N/A	0			N/A	N/A	
12.19	13.72	1.53	1.48	97	0.10	7	4 to 5		5	N/A	0			N/A	N/A	
13.72	15.24	1.52	1.52	100	0.10	7	5		5	N/A	0			3	5	
15.24	16.76	1.52	1.34	88	0.11	7	5		5	N/A	0			3	6	
16.76	18.29	1.53	1.36	89	0.50	33	6 to 7		5	N/A	0			2	5	
18.29	19.81	1.52	1.34	88	0.00	0	6		5	N/A	0			2	5	
19.81	21.95	2.14	2.15	100	0.22	10	4		5	N/A	0			1	3	
					Abandoned hole due to caving											

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-21 Logger: Nick Bazowski Date: July 12, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	6.10	6.10	1.00	16	0.00	0	6	N/A	5	N/A	0			3	6	crushed rx
6.10	7.62	1.52	1.42	93	0.81	53	7	4	5	26	17			3	6	
7.62	10.67	3.05	2.57	84	0.83	27	6 & 8	4	5	50+	0			3	6	
10.67	12.19	1.52	1.52	100	1.09	72	10	5	5	36	24			2	3	
12.19	13.72	1.53	1.53	100	1.10	72	11	4 to 5	5	34	22			3	5	
13.72	15.24	1.52	1.52	100	1.45	95	13	5	5	19	13			2	4	
15.24	16.76	1.52	1.43	94	1.33	87	12	5	5	3	2			3	5	
16.76	18.29	1.53	1.50	98	1.34	88	12	6	5	5	3			3	5	
18.29	19.81	1.52	1.46	96	1.12	74	8	6	5	7	5			2	4	
19.81	21.34	1.53	1.46	95	1.04	68	12	5	5	29	19			2	5	
21.34	22.86	1.52	1.48	97	1.07	70	10	5	5	22	14			2	5	
22.86	24.38	1.52	1.51	99	0.99	65	10	4	5	33	22			2	5	
24.38	25.91	1.53	1.48	97	1.38	90	12	5	5	29	19			2	5	
25.91	27.43	1.52	1.45	95	0.96	63	10	5	5	23	15			3	6	
27.43	28.96	1.53	1.50	98	0.60	39	9	5	5	39	25			2	3	
28.96	30.48	1.52	1.48	97	1.42	93	13	4	5	43	28			3	5	
30.48	32.00	1.52	1.49	98	1.05	69	12	4	5	37	24			3	5	
32.00	33.53	1.53	1.53	100	1.18	77	13	4	6	39	25			3	5	
33.53	35.05	1.52	1.46	96	1.12	74	10	4	6	50+	0			2	3	
35.05	36.58	1.53	1.52	99	1.28	84	10	4	6	50+	0			3	6	
36.58	38.10	1.52	1.52	100	0.99	65	9	4	6	50+	0			3	6	
38.10	39.62	1.52	1.49	98	1.14	75	11	4	6	50+	0			2	4	
39.62	41.15	1.53	1.39	91	0.61	40	8	4	6	50+	0			1	4	
41.15	42.67	1.52	1.50	99	1.33	87	12	4	6	50+	0			1	4	
42.67	44.20	1.53	1.49	97	1.01	66	10	4 to 5	6	50+	0			2	4	
44.20	45.72	1.52	1.40	92	0.73	48	9	4	6	50+	0			1	4	
45.72	47.24	1.52	1.52	100	1.21	80	11	5	6	29	19			2	4	
47.24	48.77	1.53	1.50	98	0.85	56	9	5	6	14	9			1	4	
48.77	50.29	1.52	1.52	100	0.85	56	9	5	6	20	13			2	4	
50.29	51.82	1.53	1.53	100	1.44	94	12	5	6	22	14			1	3	
51.82	53.34	1.52	1.52	100	0.97	64	11	5	6	41	27			2	4	
53.34	54.86	1.52	1.35	89	0.23	15	7	4	5 to 6	26	17			2	4	
54.86	57.91	3.05	2.75	90	0.40	13	8	4	6	50+	0			2	4	
57.91	59.44	1.53	1.20	78	0.00	0	2	2	6	N/A	0			N/A	N/A	gouge
59.44	60.96	1.52	1.36	89	0.41	27	2	2	6	N/A	0			N/A	N/A	gouge
60.96	62.48	1.52	1.52	100	0.84	55	2	2	6	N/A	0			N/A	N/A	gouge
62.48	65.53	3.05	2.86	94	0.60	20	2 & 7	4	6	34	11			2	4	some gouge

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-21 Logger: Nick Bazowski Date: July 12, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
65.53	67.06	1.53	1.34	88	0.23	15	7	5	6	24	16			2	5	
67.06	68.85	1.79	1.79	100	0.00	0	6	4	6	32	18			2	4	
68.85	70.10	1.25	1.20	96	0.47	38	7	4 to 5	6	27	22			1	4	
70.10	70.26	0.16	0.15	94	0.00	0	6	4	6	3	19			3	6	
70.26	71.63	1.37	1.02	74	0.10	7	5	5	6	10	7			3	5	change drill bit
71.63	73.15	1.52	1.47	97	0.23	15	6 to 7	4	6	19	12			1	4	
73.15	74.68	1.53	1.50	98	0.34	22	7	4 to 5	6	22	14			2	3	
74.68	76.20	1.52	1.38	91	0.88	58	9	5	6	14	9			2	3	
76.20	77.72	1.52	1.52	100	0.33	22	7	4	6	30	20			1	3	
77.72	79.25	1.53	1.51	99	0.34	22	6	5	6	26	17			1	3	
79.25	80.77	1.52	1.52	100	0.63	41	7	4	6	28	18			2	3	
80.77	82.30	1.53	1.50	98	0.64	42	7	4	6	36	24			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-20 Logger: Nick Bazowski Date: July 10/11, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	4.57	4.57	0.89	19	0.14	3	4	N/A	5	50+	0			N/A	N/A	Rx too crushed to evaluate
4.57	5.79	1.22	1.16	95	0.18	15	6	4	5	50+	0			3	6	
5.79	7.62	1.83	1.87	102	0.25	14	5 to 6	4	5	50+	0			3	6	
7.62	10.67	3.05	2.83	93	1.53	50	11	4	5	50+	0			2	6	
10.67	13.72	3.05	2.96	97	1.79	59	11	4	5	50+	0			2	4	
13.72	16.76	3.04	2.91	96	2.09	69	10	4	5	50+	0			1	3	
16.76	19.81	3.05	2.93	96	1.01	33	9	5 & 4	5	50+	0			2	5	
19.81	22.86	3.05	3.05	100	1.84	60	10	4 & 5	5	50+	0			2	5	
22.86	25.91	3.05	2.98	98	1.53	50	12	4	5	50+	0			2	4	
25.91	28.96	3.05	3.00	98	1.10	36	7 to 8	4	5	50+	0			2	4	
28.96	30.48	1.52	1.52	100	0.66	43	8 to 9	5	5	35	23			1	3	
30.48	32.00	1.52	1.47	97	0.85	56	7	4	5	36	24			2	4	
32.00	33.53	1.53	1.36	89	0.97	63	10	4	5	41	27			1	3	
33.53	35.05	1.52	1.52	100	1.23	81	12	4	5	44	29			2	5	
35.05	36.58	1.53	1.41	92	0.93	61	10	4 & 5	5	25	16			2	5	
36.58	37.19	0.61	0.40	66	0.00	0	1	1	2	N/A	0			N/A	N/A	Fault gouge
37.19	38.10	0.91	0.31	34	0.00	0	1	1	2	N/A	0			N/A	N/A	Fault gouge
38.10	38.71	0.61	0.61	100	0.00	0	1	1	2	N/A	0			N/A	N/A	Fault gouge
38.71	39.62	0.91	0.83	91	0.00	0	1	1	2	N/A	0			N/A	N/A	Fault gouge
39.62	41.15	1.53	1.40	92	0.00	0	1	1	2	N/A	0			N/A	N/A	Fault gouge
41.15	42.67	1.52	1.21	80	0.22	14	6 to 7	4	5	40	26			1	3	
42.67	44.20	1.53	1.51	99	0.45	29	6	4	5	15	10			1	3	

GEOTECHNICAL LOG
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Hole: Arn-19 Logger: Nick Bazowski Date: July 10, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	9.14	9.14	1.23	13	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	Rx too broken to evaluate
9.14	10.67	1.53	1.38	90	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
10.67	12.19	1.52	1.52	100	0.21	14	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
12.19	13.72	1.53	1.14	75	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
13.72	15.24	1.52	0.79	52	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
15.24	16.76	1.52	1.33	87	0.11	7	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
16.76	17.37	0.61	0.48	79	0.16	26	5 to 7	5	4 to 5	N/A	0			N/A	N/A	
				Abandond hole, due to no bedrock.												

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-18 Logger: Nick Bazowski Date: July 8, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	4.57	4.57	0.38	8	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	Rx generally crushed & -
4.57	4.88	0.31	0.31	100	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	- pebbly
4.88	6.10	1.22	0.28	23	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
6.10	7.62	1.52	0.35	23	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
7.62	9.14	1.52	1.04	68	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
9.14	10.67	1.53	0.95	62	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
10.67	12.19	1.52	1.27	84	0.10	7	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
12.19	13.72	1.53	1.20	78	0.31	20	5 to 7	4 to 5	4 to 5	N/A	0			N/A	N/A	
13.72	15.24	1.52	0.70	46	0.24	16	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
15.24	16.76	1.52	1.33	87	0.00	0	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
16.76	17.98	1.22	1.22	100	0.11	9	5 to 7	N/A	4 to 5	N/A	0			N/A	N/A	
					Hole abandoned at 59 feet (17.98 metres).											

GEOTECHNICAL LOG
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Hole: Arn-17 Logger: Nick Bazowski Date: July 7, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	3.05	3.05	0.35	11	0.23	8	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	rx crushed and broken-
3.05	4.57	1.52	0.50	33	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	-to end of hole
4.57	7.62	3.05	0.70	23	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
7.62	9.14	1.52	0.82	54	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
9.14	10.67	1.53	0.84	55	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
10.67	12.19	1.52	1.19	78	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
12.19	12.80	0.61	0.43	70	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
12.80	13.11	0.31	0.28	90	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
13.11	13.72	0.61	0.57	93	0.25	41	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
13.72	14.94	1.22	0.46	38	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
14.94	16.76	1.82	0.71	39	0.00	0	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
16.76	18.29	1.53	1.10	72	0.14	9	4 to 5	N/A	4 to 5	N/A	N/A			N/A	N/A	
				Hole Abandoned-drill couldn't reach bedrock												

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-16 Logger: Nick Bazowski Date: July 3-5, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	3.05	3.05	1.10	36	0.00	0	5	4	4 to 5	N/A	0			2	5	Can't count jnts
3.05	4.57	1.52	1.49	98	0.72	47	7 to 8	4	5	17	11			2	4	
4.57	6.10	1.53	1.30	85	0.36	24	7	5	6	23	15			1	3	
6.10	7.62	1.52	1.47	97	1.14	75	11 to 12	5	6	19	13			1	2	
7.62	9.14	1.52	1.62	107	1.06	70	10	5	6	21	14			1	4	
9.14	10.67	1.53	1.47	96	0.64	42	9	5 to 6	6	15	10			2	5	
10.67	12.19	1.52	1.48	97	1.09	72	9	5	5	6	4			1	4	
12.19	13.72	1.53	1.36	89	0.57	37	10	5	5	14	9			2	4	
13.72	15.24	1.52	1.47	97	1.09	72	9	5	5	18	12			1	2	
15.24	16.76	1.52	1.52	100	1.07	70	10	5	5	13	9			2	3	
16.76	18.29	1.53	1.40	92	0.48	31	6 & 9	4	5	34	22			1	4	
18.29	19.81	1.52	1.52	100	0.62	41	6 & 9	5	6	16	11			1	3	
19.81	21.34	1.53	1.47	96	1.16	76	11	5 to 6	6	9	6			1	1	
21.34	22.86	1.52	1.42	93	0.60	39	8	4	6	41	27			2	4	
22.86	24.38	1.52	1.49	98	0.46	30	7 to 8	5	6	19	13			1	3	
24.38	25.91	1.53	1.50	98	1.25	82	10	4	5	27	18			1	3 to 4	
25.91	27.43	1.52	1.45	95	0.89	59	10	4	5	21	14			1	2	
27.43	28.96	1.53	1.52	99	1.15	75	10 to 11	5	5	32	21			1	1	
28.96	30.48	1.52	1.52	100	0.77	51	13 & 7	5	5	31	20			2	5	
30.48	32.00	1.52	1.52	100	1.28	84	12	5	5 to 6	28	18			1	2	
32.00	33.53	1.53	1.50	98	1.27	83	12 to 13	4	6	42	27			2	5	
33.53	35.05	1.52	1.42	93	0.42	28	13 & 2	5 & 1	3	N/A	0			N/A	N/A	gouge material
35.05	36.58	1.53	1.49	97	0.29	19	7 to 8	4	6	27	18			2	5	
36.58	38.10	1.52	1.41	93	0.71	47	9	4	6	32	21			1	1	
38.10	39.62	1.52	1.50	99	0.56	37	9	4	6	24	16			1	1	
39.62	41.15	1.53	1.53	100	1.40	92	14	5	6	9	6			1	2	
41.15	42.67	1.52	1.52	100	1.52	100	14	5	6	9	6			1	3	
42.67	44.20	1.53	1.53	100	1.53	100	15	5	6	16	10			2	5	
44.20	45.72	1.52	1.52	100	1.51	99	14	5	6	12	8			2	4	
45.72	47.24	1.52	1.52	100	1.46	96	12	5	6	7	5			1	3	
47.24	48.77	1.53	1.50	98	1.50	98	13	5	6	10	7			1	3	
48.77	50.29	1.52	1.52	100	1.50	99	12	5	6	16	11			1	3	
50.29	51.82	1.53	1.50	98	1.31	86	12	5	6	14	9			1	4	
51.82	53.34	1.52	1.47	97	1.30	86	11	5	6	8	5			2	4	
53.34	54.86	1.52	1.48	97	1.48	97	13 to 14	5	6	15	10			2	4	
54.86	56.39	1.53	1.53	100	1.41	92	12	6	6	7	5			2	5	
56.39	57.91	1.52	1.52	100	1.52	100	11	5	6	9	6			2	5	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn 16 Logger: Nick Bazowski Date: July 3-5, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
57.91	59.44	1.53	1.50	98	1.47	96	12	6	6	19	12			2	4	
59.44	60.96	1.52	1.49	98	1.05	69	10	5	6	15	10			2	5	
60.96	62.48	1.52	1.52	100	1.52	100	15 & 12	5	6	11	7			1	4	
62.48	64.01	1.53	1.42	93	0.95	62	12	5	6	12	8			1	4	
64.01	65.53	1.52	1.52	100	1.52	100	15	5 to 6	6	4	3			2	4	
65.53	67.06	1.53	1.45	95	1.34	88	12 to 14	5	6	2	1			2	5	
67.06	68.58	1.52	1.52	100	1.06	70	9	6	6	5	3			2	5	
68.58	70.10	1.52	1.52	100	1.20	79	12	6	6	5	3			2	5	
70.10	71.63	1.53	1.36	89	1.05	69	13	5	6	6	4			2	5 to 6	
71.63	73.15	1.52	1.23	81	1.02	67	12	5 to 6	6	5	3			1	4	some crushed rx
73.15	74.68	1.53	1.46	95	1.06	69	10	6	6	10	7			2	5	
74.68	76.20	1.52	1.48	97	1.22	80	11	5	6	11	7			2	4 to 5	
76.20	77.72	1.52	1.47	97	1.25	82	11 to 12	5	6	15	10			1	3	
77.72	79.25	1.53	1.53	100	1.29	84	11	4 to 5	6	19	12			1	3	
79.25	80.77	1.52	1.49	98	1.25	82	12 & 7	4 & 5	6	11	7			1	3	
80.77	82.30	1.53	1.44	94	1.35	88	12	5	6	11	7			2	4	
82.30	83.82	1.52	1.49	98	1.03	68	10	4	6	17	11			1	4	
83.82	85.34	1.52	1.44	95	0.51	34	7	4	6	25	16			1	4	
85.34	86.87	1.53	1.39	91	0.51	33	7 to 8	4	6	30	20			2	4	
86.87	87.78	0.91	0.82	90	0.00	0	6	N/A	5	N/A	0			2	4	rx too crushed to evaluate
87.78	88.39	0.61	0.56	92	0.10	16	6	N/A	5	N/A	0			2	5	rx too crushed to evaluate
88.39	89.92	1.53	1.20	78	0.36	24	7	4	5	20	13			2	4	
89.92	91.44	1.52	1.38	91	0.33	22	6	4	5	20	13			1	3 to 4	
91.44	92.96	1.52	1.52	100	0.76	50	7	5	6	23	15			1	3	
92.96	94.49	1.53	1.53	100	1.07	70	8 to 9	5	6	13	8			1	3	
94.49	96.01	1.52	1.14	75	0.78	51	9	4 to 5	6	8	5			1	3	
96.01	97.54	1.53	1.53	100	0.97	63	10	4 to 5	6	21	14			1	4	
97.54	99.06	1.52	1.47	97	1.00	66	10	4 to 5	6	10	7			2	3	
99.06	100.58	1.52	1.51	99	0.72	47	9	4 to 5	6	12	8			2	4	
100.58	102.11	1.53	1.43	93	0.80	52	10	4 to 5	6	13	8			1	3	
102.11	103.63	1.52	1.41	93	0.23	15	7 to 8	4 to 5	6	27	18			1	4	
103.63	105.16	1.53	1.53	100	0.44	29	7	4 to 5	6	16	10			1	3	
105.16	106.68	1.52	1.45	95	0.88	58	10	4 to 5	6	33	22			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn 15 Logger: Nick Bazowski Date: July 3, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.90	2.90	0.77	27	0.38	13	5 & 9	5	5	7	2			2	5	
2.90	4.57	1.67	1.52	91	0.93	56	7 to 8	5	5	13	8			2	5	
4.57	6.10	1.53	1.48	97	0.74	48	9	4 & 5	5	24	16			1	3	
6.10	7.62	1.52	1.48	97	0.36	24	7	4	5	28	18			1	3	
7.62	9.14	1.52	1.52	100	0.65	43	8	4	5	17	11			1	4	
9.14	10.67	1.53	1.53	100	0.95	62	10	4	5	3	2			2	5	
10.67	12.19	1.52	1.51	99	0.74	49	11	4	5	20	13			1	3	
12.19	13.72	1.53	1.44	94	0.89	58	11	4	5	23	15			1	4	
13.72	15.24	1.52	1.47	97	0.89	59	10	5	5	9	6			2	5	
15.24	16.76	1.52	1.52	100	1.05	69	12	5	5	11	7			2	4	
16.76	18.29	1.53	1.53	100	1.12	73	13	5	5	7	5			2	5	
18.29	19.81	1.52	1.38	91	1.27	84	12	4	5	13	9			1	3	
19.81	21.34	1.53	1.45	95	0.78	51	10	4	5	19	12			1	3	
21.34	22.86	1.52	1.49	98	0.61	40	9	5	5	21	14			1	2	
22.86	24.38	1.52	1.52	100	1.31	86	12	4	5	3	2			1	3	
24.38	25.91	1.53	1.53	100	1.10	72	11	5	6	13	8			2	4	
25.91	27.43	1.52	1.48	97	0.72	47	9	4	6	29	19			2	5	
27.43	28.96	1.53	1.53	100	0.88	58	11	4 to 5	6	35	23			2	4	
28.96	30.48	1.52	1.39	91	0.66	43	10	4	6	17	11			1	3	
30.48	32.00	1.52	1.39	91	1.12	74	11	4	6	48	32			1	3	
32.00	33.53	1.53	1.53	100	0.35	23	7	4	6	30	20			1	3	
33.53	35.05	1.52	1.47	97	0.81	53	9	4	6	50+	0			1	4	
35.05	36.58	1.53	1.46	95	0.81	53	10	4	6	45	29			1	4	
36.58	38.10	1.52	1.49	98	0.78	51	10	4 to 5	6	27	18			1	3	
38.10	39.62	1.52	1.51	99	1.47	97	13	5	6	4	3			2	5	
39.62	41.15	1.53	1.53	100	1.13	74	12	5	6	14	9			1	3	
41.15	42.67	1.52	1.50	99	1.18	78	13	5 to 6	6	8	5			1	3	
42.67	44.20	1.53	1.48	97	1.01	66	11	4 to 5	6	16	10			1	2	
44.20	45.72	1.52	1.51	99	0.73	48	10	4	6	19	13			2	4	
45.72	47.24	1.52	1.52	100	1.10	72	11	5	6	35	23			2	4	
47.24	48.77	1.53	1.53	100	0.59	39	8	5	6	20	13			1	3	
48.77	50.29	1.52	1.51	99	0.81	53	9	4	6	16	11			1	3	
50.29	51.82	1.53	1.50	98	1.33	87	11	6	6	14	9			2	3	
51.82	53.34	1.52	1.52	100	1.10	72	12	6	6	25	16			1	2	
	0.00	0.00		#DIV/0!		#DIV/0!					#DIV/0!					
	0.00	0.00		#DIV/0!		#DIV/0!					#DIV/0!					
	0.00	0.00		#DIV/0!		#DIV/0!					#DIV/0!					

GEOTECHNICAL LOG
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Hole: Arn 14 Logger: Nick Bazowski Date: July 1/2, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
2.13	3.05	0.92	1.08	117	0.84	91	10 & 14	4	5	9	10			2	5	
3.05	4.57	1.52	1.32	87	0.13	9	6	4	5	N/A	0			2	4	too crushed to count joints
4.57	6.10	1.53	1.47	96	0.75	49	11	4	5	42	27			1	4	
6.10	7.62	1.52	1.46	96	1.23	81	12	4	5	33	22			3	6	
7.62	9.14	1.52	1.49	98	0.97	64	11	4	5	12	8			2	5	
9.14	10.67	1.53	1.14	75	0.47	31	9	4	5	16	10			2	4	
10.67	12.19	1.52	1.32	87	0.86	57	10	5	6	21	14			1	3	
12.19	13.72	1.53	1.50	98	1.02	67	11	5	6	31	20			1	4	
13.72	15.24	1.52	1.42	93	1.06	70	11	5	5	29	19			1	4	
15.24	16.76	1.52	1.52	100	0.51	34	10	5	5	25	16			1	3	
16.76	18.29	1.53	1.50	98	0.38	25	8	4 to 5	5	30	20			1	3	
18.29	19.81	1.52	1.38	91	0.99	65	10	4	5	24	16			1	3	
19.81	21.34	1.53	1.53	100	1.02	67	9	5	5	32	21			1	4	
21.34	22.86	1.52	1.52	100	0.75	49	8	5	5	26	17			2	5 to 6	
22.86	24.38	1.52	1.51	99	0.81	53	9 to 10	5	6	27	18			2	4	
24.38	25.91	1.53	1.51	99	1.12	73	12	5 & 6	6	23	15			1	3	
25.91	27.43	1.52	1.52	100	1.07	70	11	5	6	35	23			1	4	
27.43	28.96	1.53	1.50	98	1.37	90	13	6	6	10	7			2	5	
28.96	30.48	1.52	1.52	100	1.29	85	13	6	6	20	13			2	5	
30.48	32.00	1.52	1.52	100	0.79	52	9 to 10	5	6	19	13			1	4	
32.00	33.53	1.53	1.50	98	1.50	98	12	6	6	8	5			2	4	
33.53	35.05	1.52	1.51	99	1.46	96	12	6	6	22	14			2	5	
35.05	36.58	1.53	1.53	100	1.19	78	12	5	6	13	8			1	3	
36.58	38.10	1.52	1.51	99	1.03	68	11	5	6	21	14			2	4	
38.10	39.62	1.52	1.52	100	1.01	66	10	5	6	29	19			1	3	
39.62	41.15	1.53	1.48	97	0.83	54	9	5	6	62	41			1	3	
41.15	42.67	1.52	1.52	100	0.91	60	9 to 10	4	6	50+	0			1	3	50+ calcite vns (jnts)
42.67	44.20	1.53	1.53	100	0.69	45	10	4	6	32	21			1	3	
44.20	45.72	1.52	1.52	100	1.30	86	12	5	6	26	17			1	4	
45.72	47.24	1.52	1.52	100	1.24	82	12	5	6	23	15			2	4	

GEOTECHNICAL LOG
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Hole: Arn 13 Logger: Nick Bazowski Date: June 30, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	6.10	6.10	1.45	24	0.16	3	4 to 5	N/A	5	N/A	0			N /A	N/A	Too crushed to evaluate
6.10	7.62	1.52	1.42	93	0.63	41	6 to 8	4	5	N/A	0			3	6	Cannot count joints
7.62	8.84	1.22	0.90	74	0.00	0	6 & 7	N/A	5	N/A	0			N/A	N/A	Too crushed to evaluate
8.84	10.67	1.83	1.69	92	0.99	54	10	4	5	22	12			3	6	
10.67	12.19	1.52	1.51	99	1.11	73	10	4	5	30	20			2	4	
12.19	13.72	1.53	1.53	100	1.26	82	12	5	5	18	12			2	4	
13.72	15.24	1.52	1.48	97	0.76	50	10	5	5	16	11			2	4	
15.24	16.76	1.52	1.44	95	0.97	64	13	5	5	20	13			1	3	
16.76	18.29	1.53	1.52	99	0.37	24	9	5	5	21	14			1	3	
18.29	19.81	1.52	1.52	100	0.86	57	9 to 10	5	5	31	20			1	3	
19.81	21.34	1.53	1.52	99	1.03	67	9	5	5	33	22			1	4	
21.34	22.86	1.52	1.47	97	0.76	50	10	4 to 5	6	17	11			1	3	
22.86	24.38	1.52	1.52	100	0.81	53	10	4	6	27	18			1	4	
24.38	25.91	1.53	1.49	97	1.05	69	12	5	5	38	25			1	3	
25.91	27.43	1.52	1.52	100	1.36	89	12	5	5	28	18			2	3	
27.43	28.96	1.53	1.53	100	0.97	63	9	4	5	25	16			2	4	
28.96	30.48	1.52	1.52	100	0.88	58	9	5	6	14	9			1	3	
30.48	32.00	1.52	1.48	97	1.24	82	11	4 to 5	5	9	6			2	5	
32.00	33.53	1.53	1.53	100	0.65	42	9	5	5	20	13			2	4	
33.53	35.05	1.52	1.52	100	1.00	66	11	4	5	26	17			1	3	
35.05	36.58	1.53	1.53	100	0.92	60	11	4	6	31	20			2	4	
36.58	38.10	1.52	1.50	99	1.17	77	10	4	6	50+	0			2	4	
38.10	39.62	1.52	1.52	100	0.99	65	12	4 & 5	6	11	7			2	6	
39.62	41.15	1.53	1.53	100	1.16	76	12 to 13	5	6	24	16			2	5	
41.15	42.67	1.52	1.52	100	0.74	49	11	5	6	29	19			2	4	
42.67	44.20	1.53	1.50	98	1.02	67	13	4 to 5	6	26	17			1	4	
44.20	45.72	1.52	1.47	97	0.98	64	11	5	6	36	24			1	2	
45.72	47.24	1.52	1.49	98	1.20	79	12 to 13	4	6	22	14			1	3	
47.24	48.77	1.53	1.53	100	1.32	86	13	5	6	29	19			1	4	
48.77	50.29	1.52	1.50	99	0.84	55	10	5	6	30	20			1	4	
50.29	51.82	1.53	1.46	95	0.99	65	10	4 to 5	6	28	18			1	3	
51.82	53.34	1.52	1.47	97	0.98	64	12	5	6	34	22			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn 12 Logger: Nick Bazowski Date: June 29, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	3.05	3.05	0.19	6	0.00	0	4 & 6	N/A	N/A	N/A	0			N/A	N/A	
3.05	4.57	1.52	1.37	90	0.00	0	6	4 to 5	5	18	12			3	6	
4.57	6.10	1.53	1.53	100	0.80	52	8	5	5	28	18			2	4	
6.10	7.62	1.52	1.41	93	0.79	52	9	4 to 5	5	50+	0			1	4	
7.62	9.14	1.52	1.41	93	0.76	50	9	5	5	22	14			2	4	
9.14	10.67	1.53	1.53	100	0.68	44	9	5	5	16	10			1	3	
10.67	12.19	1.52	1.52	100	0.68	45	10	5	5	30	20			1	3	
12.19	13.72	1.53	1.51	99	0.76	50	9	5	5	11	7			2	4	
13.72	15.24	1.52	1.49	98	0.87	57	10	4	5	19	13			1	4	
15.24	16.76	1.52	1.39	91	0.32	21	8	4	5	16	11			2	4	
16.76	18.29	1.53	1.52	99	0.53	35	8	4	5	11	7			2	4	
18.29	19.81	1.52	1.43	94	0.95	63	11	5 to 6	6	13	9			2	3	
19.81	21.34	1.53	1.49	97	0.54	35	10	4	6	50+	0			1	4	
21.34	22.86	1.52	1.52	100	1.00	66	12	5	6	4	3			2	5	
22.86	24.38	1.52	1.52	100	0.88	58	9	5	5	21	14			2	5	
24.38	25.91	1.53	1.43	93	0.99	65	12	4	5	48	31			2	5	
25.91	27.43	1.52	1.52	100	1.07	70	10	5	5	15	10			1	3	
27.43	28.96	1.53	1.51	99	0.95	62	10	5	5	22	14			1	3	
28.96	30.48	1.52	1.52	100	0.52	34	9	5	5	34	22			1	2	
30.48	32.00	1.52	1.46	96	0.43	28	9	4	5	45	30			2	4	
32.00	33.53	1.53	1.53	100	0.66	43	10	6	5	10	7			2	4	
33.53	35.05	1.52	1.50	99	0.85	56	10 to 12	6	5	18	12			2	4	
35.05	36.58	1.53	1.52	99	1.00	65	9 to 12	5	6	12	8			2	4	
36.58	38.10	1.52	1.50	99	1.24	82	13	5	6	3	2			3	5	
38.10	39.62	1.52	1.52	100	1.43	94	14	5	6	11	7			N/A	N/A	no fractures to measure
39.62	41.15	1.53	1.52	99	1.30	85	14 to 15	5	5	10	7			N/A	N/A	no fractures to measure
41.15	42.67	1.52	1.52	100	1.24	82	12	4 to 5	5	13	9			N/A	N/A	no fractures to measure
42.67	44.20	1.53	1.50	98	0.50	33	11	4	5	34	22			2	5	
44.20	45.72	1.52	1.44	95	1.24	82	13	5	5	6	4			2	5	
45.72	47.24	1.52	1.52	100	1.27	84	12	5	5	14	9			2	4	
47.24	48.77	1.53	1.52	99	1.52	99	12 to 15	5	5	12	8			2	5	
48.77	50.29	1.52	1.52	100	1.22	80	13 to 14	5	5	5	3			2	5	
50.29	51.82	1.53	1.53	100	1.42	93	14	5	5	11	7			2	4	
51.82	53.34	1.52	1.52	100	1.41	93	12	5	6	4	3			2	5	
53.34	54.86	1.52	1.44	95	0.97	64	11	4 to 5	6	9	6			1	4	
54.86	56.39	1.53	1.48	97	1.22	80	13	5 to 6	6	14	9			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn 11 Logger: Nick Bazowski Date: June 28/29, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.44	2.44	0.67	27	0.12	5	5	4	4	N/A	0			N/A	N/A	Rock too crushed to evaluate
2.44	4.57	2.13	1.20	56	0.11	5	5 to 6	4	4	N/A	0			N/A	N/A	Rock too crushed to evaluate
4.57	7.62	3.05	1.77	58	0.57	19	6	4	5	18	6			2	5	
7.62	9.14	1.52	1.30	86	0.46	30	8	4	5	15	10			2	4	
9.14	10.67	1.53	1.51	99	0.75	49	9	4	5	12	8			1	4	
10.67	12.19	1.52	1.10	72	0.28	18	2 & 7	2 & 4	5	1	1			2	4	Gougy material
12.19	13.72	1.53	1.27	83	0.12	8	5 to 6	4 to 5	5	37	24			2	5	Lots of fractures
13.72	15.09	1.37	1.24	91	0.10	7	6	4	5	5	4			3	6 to 7	
15.09	16.61	1.52	1.43	94	0.68	45	9	3	5	18	12			3	6 to 7	
16.61	18.14	1.53	1.44	94	0.12	8	7	4	5	26	17			2	5	
18.14	19.81	1.67	1.49	89	0.86	51	11	5	5	12	7			2	5	
19.81	21.34	1.53	1.40	92	0.11	7	6 to 7	4	6	16	10			2	4	
21.34	22.86	1.52	1.42	93	0.23	15	6 to 7	4 to 5	6	20	13			2	4	
22.86	24.99	2.13	1.80	85	0.70	33	7	4	6	27	13			2	5	1 foot of hardness 5
24.99	25.91	0.92	0.78	85	0.00	0	6	5	6	10	11			1	3	
25.91	27.43	1.52	1.20	79	0.21	14	6 to 7	4 to 5	6	17	11			2	4	
27.43	28.96	1.53	1.17	76	0.36	24	7 to 8	4 to 5	6	7	5			1	3	
28.96	30.48	1.52	1.48	97	0.36	24	7	4	6	9	6			2	4	
30.48	32.00	1.52	1.52	100	0.74	49	8	4	6	8	5			3	5	
32.00	33.53	1.53	1.53	100	0.81	53	8	2 to 3	6	0	0			N/A	N/A	
33.53	35.05	1.52	1.52	100	0.81	53	7 to 8	2 to 3	6	11	7			2	5	end of interval hardness 4
35.05	36.58	1.53	1.47	96	1.00	65	10	5	6	15	10			2	5	
36.58	38.10	1.52	1.00	66	0.00	0	5	N/A	6	N/A	0			N/A	N/A	Rock too crushed to evaluate
38.10	39.62	1.52	1.51	99	0.45	30	9	5	6	18	12			2	5	
39.62	41.15	1.53	1.48	97	0.41	27	8	4 to 5	5	12	8			2	5	
41.15	42.67	1.52	1.52	100	0.16	11	7	4	5	23	15			2	4	
42.67	44.20	1.53	1.35	88	0.22	14	7	4	5	N/A	0			1	3	Too broken to count joints
44.20	45.72	1.52	1.46	96	0.52	34	9	5	5	19	13			2	4	
45.72	47.24	1.52	1.52	100	0.11	7	7	5	6	15	10			1	3	
47.24	48.77	1.53	1.50	98	0.10	7	7	5	6	27	18			1	3	
48.77	50.29	1.52	1.52	100	0.58	38	8	5	6	20	13			2	4	
50.29	51.82	1.53	1.53	100	0.94	61	11	5 to 6	6	12	8			2	5	
51.82	53.34	1.52	1.50	99	1.01	66	11	5 to 6	6	12	8			1	4	
53.34	54.86	1.52	1.30	86	0.82	54	12	6	5	14	9			1	3	
54.86	56.39	1.53	1.46	95	0.49	32	9	5	6	23	15			2	4	2 feet of mud-no hardness
	0.00	0.00		#DIV/0!		#DIV/0!					#DIV/0!					
	0.00	0.00		#DIV/0!		#DIV/0!					#DIV/0!					

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn - 10 Logger: Nick Bazowski Date: June 27-28, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	4.57	4.57	1.20	26	0.00	0	4	N/A	N/A	N/A	0			N/A	N/A	rocks too crushed to evaluate
4.57	6.10	1.53	1.30	85	0.00	0	4	N/A	N/A	N/A	0			N/A	N/A	rocks too crushed to evaluate
6.10	7.62	1.52	1.40	92	0.27	18	4 to 6	4	5	N/A	0			N/A	N/A	rocks too crushed to evaluate
7.62	9.14	1.52	1.33	88	0.38	25	8	4	5	33	22			1	3	
9.14	10.67	1.53	1.42	93	0.91	59	10	4 to 6	5	29	19			1	2	
10.67	12.19	1.52	1.52	100	0.70	46	9	5	5	17	11			1	2	
12.19	13.72	1.53	1.44	94	0.42	27	9	5	5	23	15			1	3	
13.72	15.24	1.52	1.51	99	0.92	61	9 to 10	4 to 5	5	20	13			1	2	
15.24	16.76	1.52	1.39	91	0.14	9	9	5	5	30	20			1	4	
16.76	18.29	1.53	1.43	93	1.08	71	12	5 to 6	5	22	14			1	3	
18.29	19.81	1.52	1.30	86	0.68	45	10	5	5	32	21			2	4	
19.81	21.34	1.53	1.39	91	0.73	48	10	4 to 5	5	36	24			2	4	
21.34	22.86	1.52	1.37	90	0.88	58	10	4 to 5	5	39	26			1	4	
22.86	24.38	1.52	1.49	98	1.38	91	13	5	5	7	5			N/A	N/A	
24.38	25.91	1.53	1.53	100	1.39	91	14	6	6	0	0			N/A	N/A	
25.91	27.43	1.52	1.52	100	1.08	71	14	6	6	0	0			N/A	N/A	
27.43	28.96	1.53	1.51	99	0.88	58	10 to 11	6	5	12	8			2	4	
28.96	30.48	1.52	1.50	99	0.58	38	8	5	6	11	7			2	4	
30.48	32.00	1.52	1.37	90	0.97	64	9	5	5	15	10			2	5	
32.00	33.53	1.53	1.53	100	1.32	86	12	5	5	16	10			2	5	
33.53	34.75	1.22	1.22	100	1.09	89	12	4 to 5	5	16	13			3	5	
34.75	36.27	1.52	1.51	99	1.23	81	13	5	5	14	9			3	5	
36.27	36.58	0.31	0.27	87	0.24	77	12	4	5	3	10			N/A	N/A	
36.58	37.95	1.37	1.24	91	1.04	76	13	5	5	29	21			2	4	
37.95	39.47	1.52	1.52	100	1.07	70	12	4	5	38	25			2	5	
39.47	41.15	1.68	1.33	79	0.81	48	12	4	5	30	18			2	5	
41.15	42.67	1.52	1.52	100	1.10	72	13	4	5	35	23			2	4	
42.67	44.20	1.53	1.34	88	0.94	61	12	4	5	25	16			2	4	
44.20	45.72	1.52	1.51	99	1.08	71	13	4	5	38	25			1 to 2	4	
45.72	47.24	1.52	1.41	93	1.05	69	11	5	6	21	14			1	3	
47.24	48.77	1.53	1.48	97	0.77	50	12	5	6	21	14			1	3	sediments down to end of hole
48.77	50.29	1.52	1.50	99	1.15	76	10	5	5	7	5			1	3	
50.29	51.82	1.53	1.53	100	1.12	73	13	4 to 5	5	38	25			2	3	
51.82	53.34	1.52	1.44	95	1.21	80	12	5	5	18	12			1	3	
53.34	54.86	1.52	1.44	95	0.54	36	10	4	5	20	13			1	2	
54.86	56.39	1.53	1.44	94	0.78	51	10	4 to 5	5	26	17			1	2	
56.39	0.00	-56.39	1.42	-3	0.94	-2	10	6	6	22	0			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn - 10 Logger: Nick Bazowski Date: June 27-28, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
57.91	59.44	1.53	1.50	98	0.91	59	10	5	6	31	20			2	3 to 4	
59.44	60.96	1.52	1.50	99	0.83	55	10	5	6	26	17			2	3	
60.96	61.57	0.61	0.53	87	0.26	43	9 to 10	5	6	17	28			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-09 Logger: Nick Bazowski Date: June 25-27, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.13	2.13	0.00	0	0.00	0	N/A	N/A	N/A	N/A	0			N/A	N/A	no material recovered
2.13	3.05	0.92	0.50	54	0.00	0	4	N/A	N/A	N/A	0			N/A	N/A	rocks too crushed and small to
3.05	4.57	1.52	1.45	95	0.00	0	7	4	5	50+	0			2	4	
4.57	6.10	1.53	1.50	98	1.32	86	12	4	5	50+	0			2	4	
6.10	7.62	1.52	1.40	92	1.09	72	10	5	5	14	9			1	3	
7.62	9.14	1.52	1.45	95	1.08	71	9	4	5	18	12			1	3	
9.14	10.67	1.53	1.45	95	0.49	32	9	5	5	12	8			1	3	
10.67	12.19	1.52	1.48	97	1.11	73	9	5	5	10	7			2	4	1 piece of BRKG 14
12.19	13.72	1.53	1.47	96	1.12	73	10	5	5	8	5			2	4	
13.72	15.24	1.52	1.52	100	0.89	59	12	5	5	50+	0			2	4	
15.24	16.76	1.52	1.43	94	1.20	79	11	4	5	33	22			1	4	
16.76	18.29	1.53	1.49	97	1.11	73	13	4	5	50+	0			2	4	
18.29	19.81	1.52	1.50	99	1.09	72	12	4	5	50+	0			2	5	
19.81	21.34	1.53	1.53	100	0.85	56	9	5	5	17	11			1	3	
21.34	22.86	1.52	1.46	96	0.99	65	9	5	5	27	18			1	4	
22.86	24.38	1.52	1.12	74	0.76	50	11	4	5	21	14			1	3	
24.38	25.91	1.53	1.38	90	0.63	41	7 to 9	4	5	25	16			2	3	
25.91	27.43	1.52	1.47	97	0.73	48	9	4	5	50+	0			2	4	
27.43	28.96	1.53	1.48	97	1.15	75	11	4	5 to 6	50+	0			2	5	1 piece of BRKG 15
28.96	30.48	1.52	1.44	95	1.08	71	11	4	5	3	2			2	4	
30.48	32.00	1.52	1.48	97	1.33	88	13	4	5	16	11			2	4	
32.00	33.53	1.53	1.53	100	1.29	84	11	4	5	37	24			2	3	
33.53	35.05	1.52	1.38	91	0.94	62	11	4	5	16	11			2	4	
35.05	36.58	1.53	1.40	92	1.11	73	12	4 to 5	5	30	20			1	3	
36.58	38.10	1.52	1.45	95	0.92	61	10	5	5	40	26			1	3	
38.10	39.62	1.52	1.52	100	0.38	25	9	4	5	17	11			2	5	
39.62	41.15	1.53	1.40	92	0.95	62	9	4	5	17	11			2	3	
41.15	42.67	1.52	1.46	96	0.76	50	9	5	5	50+	0			2	5	
42.67	44.20	1.53	1.46	95	0.75	49	10	4 to 5	5	45	29			3	6	
44.20	45.72	1.52	1.29	85	0.21	14	7	4	5	14	9			2	5	
45.72	47.24	1.52	1.41	93	0.35	23	9	4	5	50+	0			1	4	
47.24	48.77	1.53	1.04	68	1.04	68	12	4	6	50+	0			2	5	
48.77	50.29	1.52	1.49	98	0.37	24	7	4	5	50+	0			2	5	
50.29	51.82	1.53	1.32	86	0.45	29	8	5	6	12	8			1	3	
51.82	53.34	1.52	1.52	100	1.38	91	13	5	6	4	3			1	3	
53.34	54.86	1.52	1.42	93	1.42	93	15	5	6	17	11			2	4	
54.86	56.39	1.53	1.53	100	1.53	100	13	4	6	19	12			2	4	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-09 Logger: Nick Bazowski Date: June 25-27, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
56.39	57.91	1.52	1.51	99	1.18	78	12	5	6	27	18			1	3	
57.91	59.44	1.53	1.53	100	1.41	92	11	5	6	35	23			2	4	
59.44	60.96	1.52	1.36	89	0.83	55	9	5	6	29	19			1	3	
60.96	62.48	1.52	1.52	100	0.96	63	10	4	6	33	22			1	3	
62.48	64.01	1.53	1.32	86	0.73	48	10	5	6	16	10			1	3	
64.01	65.53	1.52	1.50	99	1.21	80	13	5	6	5	3			2	4	4' garnet section hardness 6
65.53	67.06	1.53	1.43	93	1.30	85	14	6	6	14	9			2	3	
67.06	68.58	1.52	1.49	98	1.32	87	12	5 to 6	6	17	11			1	3	
68.58	70.10	1.52	1.52	100	1.35	89	13 to 14	6	6	2	1			2	4	
70.10	71.63	1.53	1.46	95	1.46	95	15	6	6	5	3			2	4	
71.63	73.15	1.52	1.52	100	1.52	100	15	6	6	2	1			2	5	
73.15	74.68	1.53	1.37	90	0.91	59	11	4 to 5	6	25	16			1	3	
74.68	76.20	1.52	1.52	100	1.38	91	15	5	6	9	6			3	6	
76.20	77.72	1.52	1.42	93	1.21	80	15	5	6	1	1			3	6	
77.72	79.25	1.53	1.47	96	1.24	81	15	5	6	3	2			2	5	
79.25	80.77	1.52	1.41	93	1.30	86	14	5	6	8	5			2	4	
80.77	82.30	1.53	1.45	95	0.46	30	9 to 10	4 to 5	6	17	11			1	4	
82.30	83.82	1.52	1.51	99	1.46	96	15	5	6	6	4			3	6	
83.82	85.34	1.52	1.50	99	1.49	98	13	5 to 6	6	3	2			3	5	
85.34	86.87	1.53	1.44	94	1.21	79	12	5	6	3	2			2	4	
86.87	88.39	1.52	1.51	99	1.51	99	15	6	6	1	1			2	5	
88.39	89.92	1.53	1.22	80	0.92	60	12	5	6	6	4			2	4	
89.92	91.29	1.37	1.40	102	1.16	85	14	5	6	2	1			2	4	
91.29	92.66	1.37	1.36	99	1.28	93	15	6	6	11	8			2	5	
92.66	94.18	1.52	1.50	99	1.15	76	14	6	6	10	7			2	5	
94.18	95.71	1.53	1.53	100	1.07	70	12	6	6	20	13			2	5	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-08 Logger: Nick Bazowski Date: June 23, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.13	2.13	0.00	0	0.00	0	N/A	N/A	N/A	N/A	N/A			N/A	N/A	Rx too crushed to count jts.
2.13	3.05	0.92	0.76	83	0.00	0	4	4	5	N/A	N/A			N/A	N/A	Rx too crushed to count jts.
3.05	4.57	1.52	1.13	74	0.22	14	5	4	5	N/A	N/A			2	5	Rx too crushed to count jts.
4.57	6.10	1.53	1.36	89	0.13	8	6	4	5	N/A	N/A			2	4	
6.10	7.62	1.52	1.26	83	0.22	14	6	4	5	24	16			2	4	
7.62	9.14	1.52	1.38	91	0.10	7	7	4	5	23	15			1	3	
9.14	10.67	1.53	1.46	95	0.34	22	7	4	5	39	25			2	3	
10.67	12.19	1.52	1.48	97	0.70	46	7	5	5	25	16			2	3	
12.19	13.72	1.53	1.32	86	0.25	16	7	5	5	22	14			1	3	
13.72	15.24	1.52	1.28	84	0.21	14	7	5	5	26	17			2	3	
15.24	16.76	1.52	1.36	89	0.47	31	8	4	5	22	14			2	4	
16.76	18.29	1.53	1.42	93	0.51	33	9	5	5	35	23			1	3	
18.29	19.81	1.52	1.48	97	0.86	57	9	5	5	22	14			1	3	
19.81	21.34	1.53	1.26	82	0.11	7	7	6	5	37	24			1	3	
21.34	22.86	1.52	1.37	90	0.96	63	11	5	6	7	5			1	4	
22.86	24.38	1.52	1.52	100	1.12	74	10	4	5	21	14			1	3	
24.38	25.91	1.53	1.53	100	1.10	72	12	4	5	18	12			2	5	
25.91	27.43	1.52	1.41	93	0.73	48	11	5	5	22	14			2	4	
27.43	28.96	1.53	1.49	97	0.79	52	10	5	5	22	14			1	3	
28.96	30.48	1.52	1.38	91	0.72	47	9	4	5	18	12			2	3	
30.48	32.00	1.52	1.39	91	0.89	59	11	4	5	19	13			1	2	
32.00	33.53	1.53	1.37	90	1.17	76	11	4	6	16	10			1	3	2 ft. of hardness 5
33.53	35.05	1.52	1.52	100	0.79	52	11	5	5	16	11			2	5	
35.05	36.58	1.53	1.40	92	1.02	67	10	4	5	8	5			1	4	
36.58	38.10	1.52	1.46	96	0.99	65	12	4	5	10	7			2	4	
38.10	39.62	1.52	1.52	100	1.19	78	13	4	6	10	7			2	5	
39.62	41.15	1.53	1.44	94	0.97	63	8	5	6	9	6			2	4	
41.15	42.67	1.52	1.41	93	0.66	43	9	5	5	10	7			2	4	
42.67	44.20	1.53	1.52	99	1.11	73	12	5	6	8	5			2	3	
44.20	45.72	1.52	1.52	100	1.21	80	13	5	6	8	5			2	4	
45.72	47.24	1.52	1.25	82	0.59	39	12	5	5	11	7			2	4	
47.24	48.77	1.53	1.52	99	1.07	70	12	5	5	16	10			1	3	
48.77	50.29	1.52	1.52	100	0.38	25	8	5 to 6	5	23	15			1	2	
50.29	51.82	1.53	1.46	95	0.52	34	8	5	5	18	12			1	2	
51.82	53.34	1.52	1.43	94	1.05	69	9	5	5	14	9			1	2	
53.34	54.86	1.52	1.52	100	0.52	34	7	4	5	25	16			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-07 Logger: Nick Bazowski Date: June 23, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	3.05	3.05	0.00	0	0.00	0	N/A	N/A	N/A	N/A				N/A	N/A	
3.05	4.57	1.52	1.13	74	0.00	0	5	4	5	N/A				1	2	can't count joints
4.57	6.10	1.53	1.13	74	0.28	18	6	4	5	12	8			2	3	
6.10	7.01	0.91	0.65	71	0.00	0	5	4	5	N/A				2	4	can't count joints
7.01	8.53	1.52	1.33	88	0.10	7	6	4	5	10	7			1	3	
8.53	9.75	1.22	1.07	88	0.24	20	7	5	5	11	9			1	1	
9.75	10.97	1.22	1.15	94	0.31	25	7	5	5	15	12			1	2	
10.97	12.19	1.22	1.05	86	0.84	69	10	6	5	9	7			1	2	
12.19	13.72	1.53	1.43	93	0.64	42	9	5	5	18	12			2	3	
13.72	15.24	1.52	1.51	99	0.79	52	9	5	5	12	8			1	3	
15.24	16.00	0.76	0.75	99	0.39	51	8	5	5	3	4			2	4	
16.00	17.53	1.53	1.47	96	0.62	41	9	5	5	27	18			2	4	some w/ hardness 6
17.53	18.44	0.91	0.82	90	0.12	13	7	4	5	11	12			1	3	
18.44	19.81	1.37	1.14	83	0.21	15	6	4	5	17	12			1	3	
19.81	21.34	1.53	1.33	87	0.30	20	7	4	5	19	12			1	3	
21.34	22.56	1.22	0.82	67	0.00	0	7	4	5	12	10			1	3	
22.56	23.47	0.91	0.91	100	0.00	0	6	5	5	26	29			2	4	
23.47	24.38	0.91	0.91	100	0.14	15	7	6	5	25	27			1	2	
24.38	25.91	1.53	1.28	84	0.36	24	7	5	5	29	19			1	2	
25.91	27.43	1.52	1.37	90	0.38	25	8	5	5	28	18			1	2	
27.43	28.96	1.53	1.46	95	1.29	84	12	5	5	35	23			2	4	
28.96	30.48	1.52	1.41	93	0.56	37	6	4	5	15	10			2	3	
30.48	32.00	1.52	1.42	93	0.00	0	5	4	5	10	7			2	5	
32.00	33.53	1.53	1.35	88	0.11	7	7	5	5	11	7			1	2	w/ some brkg 6

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-06 Logger: Nick Bazowski Date: June 22-23, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.13	2.13	0.00	0	0.00	0	0	0	0	0	0			0	0	
2.13	3.05	0.92	0.70	76	0.30	33	5	4	5	50	54			2	4	
3.05	4.57	1.52	1.40	92	0.00	0	5	4	5	50+				1	2	
4.57	6.10	1.53	1.44	94	0.00	0	6	4	5	50+				1	2	
6.10	7.62	1.52	1.33	88	0.17	11	8	4	5	50+				1	2	
7.62	9.14	1.52	1.41	93	0.53	35	8	4	5	36	24			1	2	8' of hardness 5
9.14	10.67	1.53	1.28	84	0.21	14	8	4	5	13	8			2	4	
10.67	12.19	1.52	1.36	89	0.70	46	10	4	5	27	18			1	3	
12.19	13.72	1.53	1.47	96	0.54	35	12	4	5	32	21			2	4	
13.72	15.24	1.52	1.40	92	0.43	28	9	4	5	28	18			1	3	
15.24	16.76	1.52	1.29	85	0.31	20	7	4	5	41	27			2	3	
16.76	18.29	1.53	1.31	86	0.76	50	12	4	5	41	27			1	3	
18.29	19.81	1.52	1.52	100	0.77	51	10	4	5	22	14			2	4	
19.81	21.34	1.53	1.50	98	0.99	65	10	4	5	24	16			2	5	
21.34	22.86	1.52	1.44	95	1.14	75	12	4	5	49	32			2	5	
22.86	24.38	1.52	1.44	95	1.31	86	11	5	5	7	5			2	4	
24.38	25.91	1.53	1.40	92	0.71	46	8	4	5	34	22			2	4	
25.91	27.43	1.52	1.46	96	0.93	61	9	5	5	44	29			2	3	
27.43	28.96	1.53	1.43	93	0.76	50	9	4	5	42	27			1	3	
28.96	30.48	1.52	1.46	96	1.04	68	10	5	5	25	16			1	3	1 ft of hardness 6
30.48	32.00	1.52	1.48	97	1.28	84	11	5	5	4	3			N/A	N/A	
32.00	33.53	1.53	1.46	95	0.63	41	9	5	5	11	7			2	4	some hardness 4
33.53	35.05	1.52	1.42	93	0.86	57	9	4	5	50	33			1	3	
35.05	36.58	1.53	1.52	99	0.74	48	8	5	5	53	35			2	4	
36.58	38.10	1.52	1.49	98	0.10	7	7	4	5	26	17			2	3	
38.10	39.62	1.52	1.41	93	0.55	36	7	4	5	28	18			1	3	
39.62	41.15	1.53	1.45	95	0.64	42	8	4	5	50+				1	2	
41.15	42.67	1.52	1.40	92	0.85	56	8	4	5	43	28			1	3	
42.67	44.20	1.53	1.40	92	0.45	29	9	5	5	24	16			2	4	
44.20	45.72	1.52	1.33	88	0.43	28	7	4	5	24	16			1	3	
45.72	47.24	1.52	1.52	100	1.42	93	12	4	5	21	14			1	2	
47.24	48.77	1.53	1.51	99	1.07	70	11	4	5	14	9			1	3	
48.77	50.29	1.52	1.44	95	0.68	45	9	4	5	28	18			2	3	
50.29	51.82	1.53	1.52	99	0.89	58	9	5	5	20	13			1	3	
51.82	53.34	1.52	1.52	100	0.91	60	9	5	5	24	16			2	4	
53.34	54.86	1.52	1.45	95	0.63	41	7	4	5	50+				1	3	
54.86	56.34	1.48	1.44	97	0.70	47	8	4	5	50+				1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-06 Logger: Nick Bazowski Date: June 22-23, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
56.34	57.91	1.57	1.41	90	0.81	52	10	5	5	29	18			2	4	
57.91	59.44	1.53	1.38	90	0.93	61	9	4	5	19	12			2	4	
59.44	60.96	1.52	1.4	92	0.56	37	7	4	5	28	18			1	2	
60.96	62.48	1.52	1.51	99	0.36	24	7	5	5	47	31			1	3	
62.48	64.01	1.53	1.39	91	0.89	58	9	4	5	35	23			2	4	
64.01	65.53	1.52	1.48	97	0.87	57	10	4 to 5	5	31	20			2	4	
65.53	67.06	1.53	1.37	90	0.92	60	12	4	5	32	21			2	4	
67.06	68.58	1.52	1.40	92	0.28	18	6	4	5	N/A	0			2	5	some brkg = 8
68.58	70.10	1.52	1.40	92	1.33	88	13	5	5	12	8			2	5	
70.10	71.63	1.53	1.41	92	1.12	73	10	6	5	9	6			1	4	
71.63	73.15	1.52	1.52	100	1.03	68	9	5	5	21	14			2	5	
73.15	74.68	1.53	1.51	99	1.09	71	12	4	6	14	9			2	4	some weathering = 5
74.68	76.20	1.52	1.52	100	0.75	49	10	4	5	32	21			1	4	
76.20	77.72	1.52	1.45	95	1.19	78	9	5	5	22	14			1	3	
77.72	79.25	1.53	1.46	95	1.05	69	11	5	5	25	16			1	3	
79.25	80.77	1.52	1.40	92	0.74	49	10	4	5	23	15			1	2	maybe roughness = 1
80.77	82.30	1.53	1.35	88	0.53	35	9	5	5	22	14			1	3	
82.30	83.82	1.52	1.49	98	1.13	74	12	5	6	15	10			1	3	
83.82	85.34	1.52	1.46	96	0.82	54	9	5	5	17	11			2	4	
85.34	86.87	1.53	1.48	97	0.65	42	7	5	5	17	11			1	3	6' of hardness = 4
86.87	87.78	0.91	0.91	100	0.67	74	10	5	5	4	4			2	3	
87.78	89.92	2.14	1.88	88	1.51	71	12	5	5	17	8			2	4	
89.92	91.44	1.52	1.52	100	0.95	63	9	5	6	24	16			1	3	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-05 (A) Logger: Nick Bazowski Date: June 19-21, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
0.00	2.74	2.74	0.45	16	0.00	0	4	5								
2.74	4.27	1.53	1.53	100	0.79	52	9	3 to 4	5	40+				2	4	41 cm gouge zone
4.27	5.79	1.52	1.28	84	0.93	61	9	4	5	40+				2	5	
5.79	7.32	1.53	1.22	80	0.53	35	7	5	5	40+				3	5	
7.32	9.15	1.83	1.38	75	0.11	6	7	5	5	35	19			2	5	
9.15	10.67	1.52	1.44	95	0.25	16	8	5 to6	5	30	20			2	6	
10.67	12.19	1.52	1.51	99	0.59	39	9	4	6	50+				1 to 2	3	
12.19	13.72	1.53	1.19	78	0.10	7	5&7	4	5	50+				2	3	
13.72	15.24	1.52	1.43	94	0.77	51	11	4 to 5	5	50+				1 to 2	3	
15.24	16.76	1.52	1.35	89	0.69	45	8	6	6	45	30			2	4	
16.76	18.29	1.53	1.32	86	0.32	21	7	4	5	25	16			2	5	
18.29	21.34	3.05	2.31	76	0.57	19	8	5	5	45	15			1	3	
21.34	24.38	3.04	2.49	82	0.97	32	9	5	5	45	15			1	3	
24.38	27.43	3.05	2.86	94	0.86	28	8	5	5	30	10			2	4	
27.43	30.48	3.05	2.73	90	1.58	52	10	4	5	28	9			2	3	
30.48	33.53	3.05	3.00	98	2.12	70	11	6	6	33	11			2	3	
33.53	36.27	2.74	2.74	100	1.59	58	11	5	5	45	16			1	4	
36.27	39.62	3.35	3.01	90	1.29	39	8	5	5	44	13			2	3	
39.62	42.67	3.05	2.43	80	1.53	50	11	4	5	50+				1	3	
42.67	45.72	3.05	2.85	93	1.22	40	7	5	5	45	15			1	4	
45.72	48.77	3.05	2.94	96	1.87	61	12	6	5	22	7			2	4	
48.77	50.29	1.52	1.49	98	0.92	61	7	4	5	15	10			3	5	
50.29	51.82	1.53	1.40	92	0.96	63	8	5	5	40	26			2	4	
51.82	53.34	1.52	1.37	90	0.65	43	7	4	5	50+	0			2	3	
53.34	54.86	1.52	1.43	94	0.20	13	6	4	5	50+	0			3	5	
54.86	56.39	1.53	1.28	84	0.10	7	6	4	5	11	7			2	4	
56.39	57.91	1.52	1.36	89	0.40	26	6&7	5	5	10	7			3	5	
57.91	59.44	1.53	1.30	85	0.00	0	6	4	5	40	26			1	3	
59.44	60.96	1.52	1.37	90	0.24	16	6	4	5 to 6	21	14			1	2	
60.96	62.48	1.52	1.26	83	0.16	11	6	4	5	30	20			2	4	
62.48	64.01	1.53	1.47	96	0.88	58	9	4	5	45	29			2	4	
64.01	65.53	1.52	1.37	90	0.42	28	8	4	6	50+	0			3	4	
65.53	67.06	1.53	1.48	97	0.10	7	8	5 to 6	6	36	24			1	2	1st foot, hardness = 6
67.06	68.58	1.52	1.44	95	1.25	82	12	4	6	46	30			1	3	
68.58	70.10	1.52	1.42	93	0.68	45	10	4	6	41	27			2	4	
70.10	71.63	1.53	1.48	97	0.77	50	9	4	6	38	25			1	3	
71.63	73.15	1.52	1.42	93	1.23	81	12	5	6	17	11			2	4	

GEOTECHNICAL LOG
ARN PROPERTY

Hole: Arn-05 (A) Logger: Nick Bazowski Date: June 19-21, 2004

From (m)	To (m)	Length (m)	REC (m)	REC%	RQD (m)	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	Remarks
73.15	74.68	1.53	1.48	97	1.17	76	10	6	6	10	7			2	4	
74.68	76.20	1.52	1.38	91	0.62	41	8	4	6	19	13			2	3	
76.20	77.72	1.52	1.43	94	0.82	54	9	4	6	29	19			1	3	
77.72	79.25	1.53	1.40	92	1.23	80	11	5	6	11	7			2	4	
79.25	80.77	1.52	1.49	98	1.18	78	12	6	6	9	6			1	3	
80.77	82.30	1.53	1.52	99	1.20	78	13	5	6	25	16			2	5	
82.30	83.82	1.52	1.52	100	1.52	100	15	6	6	0	0			2	4	
83.82	85.34	1.52	1.52	100	1.52	100	15	4	6	0	0			N/A	N/A	Only drill induced fractures
85.34	86.87	1.53	1.43	93	1.16	76	13	4	6	18	12			2	5	
86.87	88.39	1.52	1.44	95	0.40	26	7	4	6	29	19			1	3	
88.39	89.92	1.53	1.38	90	0.92	60	10	5	6	15	10			2	4	
89.92	90.89	0.97	0.97	100	0.84	87	13	4	6	7	7			1	3	
90.89	91.14	0.25	0.25	100	0.00	0	6	4	6	N/A	0			2	4	

APPENDIX IV

DIAMOND DRILL HOLE GEOLOGICAL LOGS

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-22 **Zone:** Zone A

Northing: 6,870,953.70 Easting: 516,546.50 Elevation: 1432.90 Depth Collar
Drilling Dates: July 12-13, 2004 Logged By: T.C. Becker Length: 21.95 m Dip -50°
Core Diameter: BTW Casing Depth: 12.80 m Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	Sulphides: AS	Sulphides: CP	Sulphides: LI	Sulphides: CS	Alteration: KF	Alteration: EP	Alteration: MG	Alteration: MF	Alteration: SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	13.55	13.55	OVBR	Over burden																
			-casing to 12.80m - all that was available in core																				
			- core did not begin to "stick" together until 13.55m																				
			- overburden consisted of fresh KRA2 porphyry with only minor																				
		2	pieces showing evidence of skarnification																				
			→ only trace Li along some fractures, core consists of																				
			2cm to 6cm fragments some of which have been 'redrilled'																				
		4	zone of which 'connect' together																				
		6																					
		8																					
			13.55	20.58	7.03	KRA2	Plag ± HB Porphyry	T	-	-	S	T	W	-	-	Ir	Ir	13.55	15.89	2.34	M012965	2.17	93
			medium green to light brown, moderate to strongly weathered and															15.89	18.23	2.34	966	2.12	91
			limonite coated porphyry, strong Limonite along all fractures															18.23	20.58	2.35	967	2.35	100
		10	and penetrating into the rock, Li present throughout the rock																				
			but strongest along fractures																				
			- common vugs and cavities along most fractures and occasionally																				
			within the rock itself.																				
			- trace sulphides, usually in areas of strong limonite, trace malachite in one																				
		12	area																				
			- rock appears to be skarnified but difficult to tell extent of skarn																				
			minerals due to weathering																				
	45°	13.55																					
		14																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-22 **Zone:** Page 2 of 2

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides					Alteration					From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)			PY	PO	CP	LI	CS	KA	EP	HG	MF	Q	(m)	(m)	(m)	Number	(m)	%
	45°																						
	40°																						
	35°	16																					
	20°																						
	10°																						
		18																					
			20.58	21.95	1.37	KRA2	Plag ± HB porphyry	T	-	-	S	-	?	-	-	?	?	20.58	21.95	1.37	MA2968	0.68	50%
			medium green to medium brown, strong Li on all fractures, strongly broken rock, entire interval consists of small angular rock fragments, all are porphyry and <1 to 2cm in size, similar to																				
	35°	20	above interval, no evidence of a fault.																				
		20.58	-drillers took several hours to trying to get past this interval but rock kept caving in and hole needed casing past this depth in order to continue, hole abandoned when not able to rotate rods any longer.																				
EOH	21.95																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Zone A

Northing: 6,870,952.1 Easting: 516,546.30 Elevation: 1433.90 Depth Collar 70.10
Drilling Dates: July 10-12, 2004 Logged By: T.C. Becker Length: 82.30 Dip -50° -50½°
Core Diameter: BTW Casing Depth: 5.18 m Casing: In / Out Azimuth 135° n.a

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: Py	Po	Cp	Il	Cs	Alteration: Ca	Ep	Mg	Mf	Sk
			0.00	5.18	5.18	OVBR	Overburden - poor recovery										
		2	5.18	8.70	3.52	KRA2	Mod - Str Porphyry pale pinkish-red to medium green, strong garnet skarn from 6.10 - 7.00 and 7.62 - 8.70 other parts of interval are moderately skarnified porphyry, areas of strong skarnification have minor white QZ-CA veinlets, original texture	T	-	-	W	-	S	W	T	M	S
		4					destroyed, ~60° GA. ~10% mafic minerals <10% epidote, weak calcite,										
	35°/	5.18					contacts gradational, areas of moderate skarnification have strong QZ-CA										
	45°/						veinlets, 1-3 mm wide, irregular and fracture filling, original texture										
	70°/	6					partially destroyed. limonite present on most fractures and into the rock										
	25°/		8.70	13.08	4.38	KRA2	Moderately skarnified Porphyry medium green, 3-5% phenocrysts, 1-2mm in size, in an aphanitic matrix,	T	-	-	W	-	W	W	T	W	M
	45°/						strong white QZ-CA veinlets, avg 1mm wide, various orientations										
		8					trace CA in matrix,										
		8.70															
	35°/																
		10															
	45°/																
	70°/																
	35°/	12															
	50°/		13.08	14.50	1.42	KRA2	Mod skarn + weak breccia porphyry medium green, moderately skarnified porphyry with 10-25cm intervals of	T	-	-	W	-	W	W	T	W	M
		13.08					angular breccia fragments in a fine grained white matrix with										
	35°/						minor calcite, moderate white QZ-CA veinlets										
		14															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
5.18	8.70	3.52	MA12935	2.93	83
8.70	10.89	2.19	936	1.95	89
10.89	13.08	2.19	937	2.19	100
13.08	14.50	1.42	938	1.42	100

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Page 2 of 6

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: KA	EP	MG	MF	SK
		14.50	14.50	20.22	5.72	MABL	Marble	T	-	-	T	-	T	T	-	T	P
			white with med green fragments, ~90% marble ~10% skarnified fragments, majority of interval is fine to medium grained mixture of strong calcite with much less quartz carbonates, matrix ek, contacts are sharp														
	20°/	16	and irregular, part of interval is angular porphyry fragments														
			from 3-12 cm in size, some with trace sulphides most with strong														
	35°/		calcite, entire interval has common hairline fractures with fine														
			black material, usually irregular and discontinuous														
	20°/	18															
	35°/																
		20															
		20.22	20.22	21.70	1.48	KRA2	Skarnified porphyry	T	-	-	T	-	M	W	T	M	S
			light green to slightly pinkish, moderate to strongly skarnified porphyry, strong														
			calcite as patches and disseminations, moderate white QZ-CA veinlets														
		21.70	trace sulphides														
		22															
	20°/		21.70	58.12	36.42	KRA2	Plag ± HB porphyry	-	-	-	-	-	W	T	-	W	W
			med to dark green, grades from weak to moderate skarnified porphyry,														
	35°/		strong white QZ-CA veinlets, trace calcite disseminated in the rock														
			matrix, weak skarn minerals are present in some areas, usually														
	50°/	24	near stronger QZ-CA veining,														
	25°/		- some veinlets up to 1cm wide, with trace sulphides and														
	10°/		weak alteration envelopes of bleached rock														
	70°/	26															
	35°/																
	20°/																
		28															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
14.50	17.36	2.86	M012939	2.79	98
17.36	20.22	2.86	940	2.80	98
Blank			941		
¼ sample			M012021		
20.22	21.70	1.48	942	1.48	100
21.70	24.38	2.68	943	2.68	100
24.38	27.43	3.05	944	2.93	96
27.43	30.48	3.05	945	2.98	98
30.48	33.53	3.05	946	3.02	99
33.53	36.58	3.05	947	2.98	98
36.58	39.62	3.04	948	3.01	99
39.62	42.67	3.05	949	2.89	95
42.67	45.72	3.05	950	2.89	95
45.72	48.77	3.05	951	3.02	99
48.77	51.82	3.05	952	3.05	100
51.82	54.86	3.04	953	2.87	94
54.86	58.12	3.26	954	3.09	95

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Page 3 of 6

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides					Alteration					From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)			PY	PO	CP	LI	CS	CA	EP	NG	MT	CL	(m)	(m)	(m)	Number	(m)	%
							over the entire interval the percentage of phenocrysts varies from absent to ~1% to 5-7%, all phenocrysts are ~2 mm in size and plagioclase ≥ HB or plagioclase > HB																
		30					- contacts not always visible and not sure if this is a series of narrow cross cutting dykes or phases in a larger dyke																
							- some areas have stronger white QZ-CA veinlets than other areas																
	45°	32																					
	60°																						
		34																					
	10°																						
	25°																						
		36																					
	35°																						
		38																					
	35°	40																					
		42																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Page 4 of 6

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides					Alteration					From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)			PY	PO	CP	LI	CS	GA	FP	MG	MT	CL	(m)	(m)	(m)	Number	(m)	%
		44																					
	45°																						
		46																					
	30°																						
		48																					
		50																					
	45°																						
		52																					
	20°																						
	35°	54																					
							- Tauvid lava contact rock becomes more bleached with two 2 cm narrow breccia bands -																	
		56																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Page 5 of 6

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Visual Log: Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: SA	EP	HG	HE	SL	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	35°/		58.12	63.25	5.13	FALT	Fault Zone	-	-	-	-	-	-	-	-	-	-	58.12	60.68	2.56	M012955	2.43	95
			light green, soft clay gouge with < 3mm rock fragments, very clumpy															60.69	63.25	2.57	956	2.57	100
	15°/		CA in matrix, swelling clays but not as strong as ARN-20																				
			similar to fault in ARN-21, contacts gradational, clays show shear																				
		58	structures as they "flow" around fragments																				
		58.12																					
		60																					
		62																					
			63.25	82.30	19.05	KRA2	Plagioclase ± HB porphyry	T	-	-	-	-	W	T	-	W	W	63.25	65.53	2.28	957	2.28	100
			medium to dark green, common white QZ-CA veinlets cutting a weakly															65.53	68.58	3.05	958	3.05	100
		63.25	skarnified porphyry, original texture visible throughout interval, phenocrysts															68.58	71.63	3.05	959	2.37	78
	25°		1-2 mm in size, plag ≥ HB, local areas of <1% phenocrysts but															71.63	74.68	3.05	960	2.97	97
	X	64	average 3-7% phenocrysts, ground mass is aphanitic to very															Blank			961		
	25°																	Y4 sample			M012022		
			fine grained, appears to be a large dyke with more minerals																				
			forming in the groundmass in some areas, calcite is present															74.68	77.72	3.04	962	3.04	100
			as weak disseminations in matrix															77.72	80.01	2.29	963	2.29	100
	25°/	66																80.01	82.30	2.29	964	2.26	99
			- less white QZ-CA veinlets toward bottom of hole																				
			- trace sulphides, mainly pyrite after hornblende																				
	40°/	68																					
	25°/		68.98-70.45 medium green, very hard, "siliceous" porphyry, no obvious																				
			structures or contacts in interval, it just looks different																				
	45°/	70																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-21 **Zone:** Page 6 of 6

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides	Alteration	From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)					(m)	(m)	(m)	Number	(m)	%
							7045 - 70.55 redrilled and caved material appear to be fault but drillers changed the bit and this looks like caved material from pulling rods									
	35°	72													
	50°	74													
		76													
		78													
		80													
		82													
EOH	82.30														

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-20 **Zone:** Zone A

Northing: 6,870,951.00 Easting: 516 545.50 Elevation: 1433.90
Drilling Dates: July 9-10, 2004 Logged By: T.C. Becker Length: 44.20
Core Diameter: BTW Casing Depth: 4.27 m Casing: In / Out

	Depth	Dip	Azimuth
Collar	44.20	-48½°	200°
		-45°	n.a

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			000	4.27	4.27	OVBR	Overburden																
							- very poor recovery, small rounded 'redrilled' rock fragments																
		2																					
			4.27	7.35	3.08	KRA2	Plag - HB porphyry	-	-	-	M	-	W	-	-	W	T	427	7.35	3.08	M017917	2.68	87
							- dark green with brown fractures, moderately weathered, strongly QZ-CA veined with 2-5 cm intervals of angular rock fragments in a matrix of of white QZ-CA, various orientations and somewhat discontinuous,														
		4					weak to trace skarn minerals, usually near veinlets.																
			4.27				gradational contacts, aphanitic matrix with 3-10% phenocrysts																
	25°/						<2mm in size																
	30°/	6																					
			7.35	15.53	8.18	KRA2	Plag - HB Porphyry	-	-	-	T	-	T	T	-	W	T	7.35	10.08	2.73	918	2.51	92
	35°/						- dark green trace skarn minerals, usually near 1-4mm wide white											10.08	12.81	2.73	919	2.58	95
	15°/						QZ-CA veinlets, common white veinlets ~30/m,											12.81	15.53	2.72	920	2.56	94
	35°/	8																Blank			921		
	50°/																						
	45°/																						
	55°/	10																					
	30°/																						
		12																					
							veinlets common throughout but more common near lower contact																
							- lower contact sharp																
		14																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-20 **Zone:** Page 2 of 4

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: Py	Sulphides: Po	Sulphides: Cp	Sulphides: Ll	Sulphides: Cs	Alteration: CA	Alteration: EP	Alteration: MG	Alteration: MF	Alteration: Sk
	45°/c	15.32	15.32	17.15	1.83	SKRN	Mixed Skarn	W	W	W	-	-	M	M	W	M	P
			black pinkish-red, epidote green, pervassive skarn minerals original texture destroyed. GA = MF > EP = Sulphides (Py > Cp = Po) all minerals intermixed to disseminated to small patches														
		16	- no veinlets pervassive skarn areas, lower contact is gradational with														
			less skarn minerals and more veinlets some with sulphides,														
	25°/	17.15	original texture of rock destroyed by skarnification, strong calcite throughout														
	50°/30°/	18	17.15	19.81	2.66	KRA2	Weakly skarnified porphyry	T	-	-	-	-	W	W	-	W	W
			medium green, strongly veined and weak to moderately skarnified porphyry, original texture present in most of interval, veinlets from 1mm to														
		19.81	2cm wide, wider veinlets with breccia texture and angular fragments,														
		20	- trace calcite disseminated in rock														
			19.81	20.45	0.64	SKEP	Epidote skarn	T	-	-	-	-	W	S	-	M	P
		20.45	black + epidote green in colour, 50-60% epidote, 30% matic skarn														
	80°/45°/		minerals, ~10% garnet, strong calcite in matrix and some small														
		22	patches, very minor white Q2-CA veinlets, gradational contacts														
			20.45	25.61	5.16	KRA2	Moderately skarnified porphyry	T	-	-	-	-	M	T	T	M	M
			pale green to slightly pinkish, moderately skarnified, strongly veined, +30/m														
	30°/		white Q2-CA veinlets, irregular and discontinuous, trace CA as														
		24	disseminations in rock, trace sulphides along some fractures														
			25.61	26.76	1.15	SKGA	Garnet skarn	T	T	-	-	-	S	M	T	M	P
	60°/		light pinkish-red, black, epidote green, pervassive skarn minerals, texture														
		25.61	of original rock destroyed, ~60% garnet, 15% mafics, 15% epidote,														
			strong calcite disseminated in rock and as patches up to 3mm in size														
		26	contacts gradational														
		26.76	- trace white Q2-CA veinlets (~2 in interval) but very common on other														
	45°/35°/		side of contact, ~6 irregular + discontinuous greenish-white veinlets														
		28															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
15.32	17.15	1.83	M012922	1.75	96
Y4	sample		M012920		
17.15	19.81	2.66	923	2.46	92
19.81	20.45	0.64	924	0.64	100
20.45	23.03	2.58	925	2.58	100
23.03	25.61	2.58	926	2.54	98
25.61	26.76	1.15	927	1.13	98

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-20 **Zone:** Page 3 of 4

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration CA	FP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			26.76	34.58	7.82	KRAZ	Plag ± HB porphyry	T	-	-	-	-	W	T	-	W	W	26.76	29.37	2.61	M012928	2.58	99
	35°		medium green colour, weakly skarnified porphyry, very common white															29.37	31.98	2.61	929	2.56	98
			QZ-CA veinlets 1-10mm wide, some are irregular and discontinuous															31.98	34.58	2.60	930	2.49	96
	50°	30	some with narrow alteration envelopes																				
	45°		- appears to be at least 3 different types of porphyry textures,																				
			most of interval is ~2mm phenocrysts of Plag > HB but some areas																				
	20°	32	Plag = HB and HB phenocrysts are 1-4mm in size																				
	35°																						
			- gradational lower contact marked by more skarn minerals and less																				
		34	white QZ-CA veinlets.																				
	40°	34.58	34.58	36.44	1.86	KRAZ	Skarnified porphyry	T	-	-	-	-	S	W	-	M	S	34.58	36.44	1.86	931	1.86	100
			pale green to pinkish red, mod-strong skarnified porphyry, only 4-6 white																				
	35°		QZ-CA veinlets in interval but more common dark green to grey 1-2cm																				
			wide breccia bands with angular fragments in a fine grained matrix																				
	25°	36	rock is commonly 'broken' with irregular fracture filling of fine grained																				
		36.44	matrix around fragments that have not moved but are "fractured"																				
			- moderate to strong CA disseminated in matrix, original texture of rock																				
			partially destroyed, both contacts gradational, garnet common in rock																				
		38	matrix.																				
			36.44	41.12	4.68	FALT	Fault Zone	-	-	-	-	-	-	-	-	-	-	36.44	38.78	2.34	932	1.90	81
			very light greenish grey to off white, strong fault zone, very soft sticky,															38.78	41.12	2.34	933	2.34	100
			swelling clay gouge, drillers had tough time removing from core tube,																				
			trace rock fragments, avg <1mm and angular, a couple <5mm wide																				
		40	medium grey clay bands, possibly with fine grained crushed sulphides,																				
			contacts gradational into less clay gouge over ~10 cm of core																				
		41.12	length, strong CA disseminated in matrix																				
		42																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-20 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides					Alteration					From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)			PY	PO	CP	LI	CS	GA	EP	MG	MF	SK	(m)	(m)	(m)	Number	(m)	%
	30°/ 45°/ 35°/	44	41.12	44.20	3.08	KRA2	Plag ± HB Porphyry med to dark green, weakly weathered, trace to weakly skarnified porphyry, moderate white QZ-CA veinlets ~20/m, most 1mm wide, some with weak skarn or bleached alteration envelopes, weak calcite in matrix near 42.67m, 3-5% phenocrysts, mainly 1-2 mm plagioclase with lesser HB phenocrysts, weak limonite along most fractures to 43.25m 43.67-43.87 m soft crumbly clay gouge zone with chl and stronger weathering on each side	T	-	-	W	-	T	T	-	T	W	41.12	44.20	3.08	MX2934	3.05	99
EOH	44.20																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-19 **Zone:** Zone A Page 1 of 1

Northing: 6,870,973.20 Easting: 516,506.9 Elevation: 1449.30 Depth Collar

Drilling Dates: July 8-9, 2004 Logged By: T.C. Becker Length: 17.37 Dip -60°

Core Diameter: RTW Casing Depth: 12.19 Casing: In / Out Azimuth 145°

Visual Log Visual	Visual Log Struc.	Visual Log (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides	Alteration	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	17.37	17.37	OVBR	Overburden								
							- all casing available on property was used in the hole								
							- hole abandoned due to excessive caving at top								
							- angular 'soil' rock chip fragments were present right to the								
		4					bottom of hole								
							- no mineralized fragments recovered								
							- almost all rock fragments were plag+ HB porphyry but								
		8					a couple fragments were sediments								
		12													
		16													
EOH	17.37														

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-18 **Zone:** Zone A **Page** 1 **of** 1

Northing: 6 870 972.90 Easting: 516 587.60 Elevation: 1449.7 Depth Collar

Drilling Dates: July 7-8, 2004 Logged By: T.C. Becker Length: 17.98 Dip -61°

Core Diameter: BTW Casing Depth: 12.19 Casing: In / Out Azimuth 207°

Visual Log			From	To	Interval	Unit	Description	Sulphides	Alteration	From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)					(m)	(m)	(m)	Number	(m)	%
			0.00	17.98	17.98	OVBR	Overburden								
							- hole abandoned at 17.98m due to excessive caving at top of hole								
							- pieces of core do not connect together								
							- <1cm angular rock fragments with sand / clay present to bottom of hole								
		4					- all larger rock fragments are porphyry, usually KRA? with								
							plagioclase ± HB phenocrysts								
							- all casing available was used but only reached 40' and more								
							was required								
		8													
		12													
		16													
EOH	17.98														

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-17 **Zone:** Zone A **Page** 1 **of** 1

Northing: 6,870,972.90 Easting: 516 586.90 Elevation: 1149.40
Drilling Dates: July 5-7, 2004 Logged By: T.C. Becker Length: 18.29
Core Diameter: BTW Casing Depth: 12.19 Casing: In / Out

Depth	Collar
Dip	-50°
Azimuth	185°

Visual Log			From (m)	To (m)	Interval (m)	Unit	Description	Sulphides					Alteration				
Visual	Struc.	(m)						PY	PO	CP	LI	CS	KA	P	MX	MF	SK
			0.00	18.29	18.29	OVBR	Overburden										
			- casing to 12.19m (all the casing available on property was used)														
			- hole stopped at 18.29 because it kept caving around the rods														
			and casing kept falling down the hole														
		4	- material recovered by drillers does not appear to be bedrock on a														
			consistant basis, right to the bottom of the hole most fragments														
			do not connect together and lots of pieces are 'redrilled'														
			- hole was sampled just incase mineralization was present														
		8															
			- all the rock recovered are KRA 2 or KRA3 (Plagioclase ± HB porphyry)														
		12															
		16															
EOH	18.29 m																

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
3.05	7.62	4.57	M012907	1.20	26
7.62	10.67	3.05	908	1.60	52
10.67	13.72	3.05	909	2.47	81
13.72	16.76	3.04	910	1.17	38
16.76	18.29	1.53	911	1.10	72

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 Zone: Zone B

Northing: 6,870,984.2 Easting: 516,472.1 Elevation: 1295.9
Drilling Dates: July 2-4, 2004 Logged By: T.C. Becker Length: 106.60
Core Diameter: BTW Casing Depth: 2.44 Casing: In Ou

	Depth	Collar	9144			
	Dip	-50°	-46°			
	Azimuth	217°	na			

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	//	CS	Alteration GA	EP	MC	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	2.13	2.13	OVBR	Overburden - very poor recovery, drillers start coring at 2.13 m																
		2																					
		2.13	2.13	3.53	1.40	SKRN	Mixed Skarn SKGA light tan with medium green patches, strongly weathered with limonite on all fractures and vugs up to 1cm in size and along all	T	-	-	M	-	S	W	T	M	P	2.13	3.53	1.40	M02854	1.28	91
		3.53					fractures, matrix appears to be weathered garnet with common pit + vugs.																
		4					no calcite in interval, trace sulphides either disseminated in rock																
	45°	4.76					or as fine grained black wisps in quartz rich areas, narrow (10cm)																
	60°						band at 305 appears to be angular breccia fragments in a tan carbonate matrix,																
		6																					
	25°		3.53	4.76	1.23	KRA2	Skarnified + brecciated porphyry	T	T	T	W	-	W	W	W	M	S	3.53	4.76	1.23	855	1.23	100
	50°	7.17					light green to tan, moderately skarnified and locally brecciated																
	35°	7.97					porphyry, along some fractures the rock has been brecciated into angular fragments 1-4mm in size within a matrix of tan carbonate, rock consists of 1-6mm plagioclase phenocrysts which																
		8																					
	35°						are usually altered to pale green, minor patches of magnetite																
	25°						and trace sulphides, white Q2-CA veinlets increase in abundance																
							toward lower contact, gradational contacts																
		10																					
		6.18	4.76	7.17	2.41	KRA3	Skarnified porphyry	T	T	T	-	-	M	T	T	M	M	4.76	7.17	2.41	856	2.21	92
		10.86					medium - dark green, ranges from weak to strongly skarnified, common																
							white Q2-CA veinlets and ~1mm quartz veinlets, GA = MF > EP = MC = PY = PO = CP																
	45°	11.61					trace sulphides along some quartz veinlets, common alteration																
	C	12					envelopes with bleached rock + skarn minerals																
		12.40	7.17	7.97	0.80	SKMF	Mafic Skarn	W	T	T	-	-	W	T	M	S	P	7.17	7.97	0.80	857	0.76	95
		12.75					dark green to black w white patches, >60% mafic minerals mainly, 1-20mm																
		13.62					acicular actinolite, 10-15% calcite ± Qz as patches and in matrix, ~7%																
							magnetite as patches, sulphides occur as disseminations or small																
		14					patches																

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 **Zone:** Page 3 of 6

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: Py	Po	Cp	Zl	Cs	Alteration: CA	EP	MG	MF	Sk	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	25/	14.36	7.97	10.18	2.21	KRA2	Skarnified + Bleached porphyry	T	T	T	-	-	W	W	T	M	M	7.97	10.18	2.21	M02858	2.21	100
	30/		light and dark green, variable composition from weakly skarnified to strong skarnified with ~1m pale green bleached + altered porphyry, narrow, irregular																					
		15.63	and discontinuous veinlets cause alteration but host fine grained sulphides																					
		16	original texture always present																					
	50° /		10.18	10.86	0.68	SkMG	Magnetite skarn SkPY	M	W	W	-	-	T	T	S	W	P	10.18	10.86	0.68	859	0.68	100
		16.57	black, >70% magnetite with 20-25% fine grained disseminated to																					
	70° /		small patches of pyrite with lesser pyrrhotite and cp. gradational																					
			contacts, no calcite, two 1mm hairline fractures. no veinlets																					
		18																						
	10° /		10.86	11.61	0.75	SkPY	Pyrite skarn SkPO	S	M	W	-	-	W	W	M	M	P	10.86	11.61	0.75	860	0.75	100
			~ 60% pyrite, ~10% PO, ~10% MG, ~10% MF remainder GA+EP+CP,																					
			no calcite heavy, all occur as fine disseminations to small patches,																		Blank		861		
			lower contact at ~45° and sharp, CP occurs a very fine disseminations																		Y4	sample	M0120017		
		20																						
		20.03	11.61	12.40	0.79	KRA3	Skarnified porphyry	T	-	-	-	-	M	W	T	M	S	11.61	12.40	0.79	862	0.79	100
		20.57	patches of light green, dark green, pinkish-red, strongest skarn minerals																					
		21.20	near narrow fractures or veinlets, GA strongest near veinlets and																					
			bleached / mafic skarn minerals peripheral then fresh dark green																					
		22	porphyry with <3% plagioclase phenocrysts																					
	35° /		12.40	12.75	0.35	SKPY	Pyrite skarn	S	W	W	-	-	W	W	W	M	P	12.40	12.75	0.35	863	0.35	100
			>70% pyrite, ~15% mafic skarn minerals, remainder is PO>CP=GA=EP=MG																					
		23.50	sharp contacts marked by alteration, contacts almost 90° to core axis																					
		24																						
			12.75	13.60	0.85	KRA3	Plag Porphyry	T	-	-	-	-	-	-	-	-	T	12.75	13.60	0.85	864	0.81	95
	20/		medium green, aphanitic grain mass, 1-2% <1mm plagioclase phenocrysts,																					
			common <1mm Qz±CA veinlets, irregular and discontinuous.																					
	45° /																							
		26																						
			13.60	14.36	0.76	SKPY	Pyrite Skarn	S	W	W	-	-	W	W	M	M	P	13.60	14.36	0.76	865	0.70	92
	70° /		~ 60% pyrite, 10-15% Mg, 10-15% MF, 5% PO remainder grained EP,																					
			low carbonate, no calcite, no veinlets, minor hairline fractures irregular																					
			and discontinuous.																					
		28																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 **Zone:** Page 3 of 6

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	ZI	GS	Alteration: CA	EP	MG	NF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	70°		14.36	15.63	1.27	KRA3	Plag porphyry	T	T	-	-	-	T	W	T	W	V	14.36	15.63	1.27	M0128866	1.27	100
	15°		medium green, weakly skarnified porphyry, similar to 12.75 to 13.60 except 4 veinlets ~ 1cm wide with calcite, quartz and fine grained sulphides, and stronger skarn minerals																				
	35°	30	15.63	16.57	0.94	SKMF	Mafic Skarn SkRN	W	W	W	-	-	W	W	W	M	P	15.63	16.57	0.94	867	0.94	100
		30.95	medium green, ~30% sulphides (~15-20% PY, 7% CP, 3-8% PO), 10% MG,																				
		31.56	~60% dark green to black mafic minerals, ~10% calcite in matrix and																				
		32	mixed with QZ as patches, remainder CA, EP, sulphides occur as fine disseminations or small patches.																				
	45°		16.57	20.03	3.46	KRA3	Plag Porphyry	T	T	-	-	-	T	T	-	T	T	16.57	18.30	1.73	868	1.63	94
			medium green, aphanitic matrix, grades from <1% to 5% phenocrysts,																18.30	20.03	1.73	869	1.65	95
	45°	33.53	mainly <2mm in size plagioclase with less common HB, moderate																				
		34	white QZ-CA veinlets sometimes with sulphides, 19.5-19.6m is SKMF																				
	35°		with weak PO patches, lower contact sharp ~90° to core axis																				
		34.10	20.03	20.57	0.54	SKPY	Pyrite Skarn	S	M	W	-	-	T	T	W	M	P	20.03	20.57	0.54	870	0.50	93
			~60% pyrite ~20% mafic skarn minerals, ~15% QZ + tan carbonates,																				
		35.19	weak CA, ~5% PO, ~5% MG, minerals occur as <1cm patches to																				
		35.50	less common disseminations																				
		36																					
	40°		20.57	21.20	0.63	SKMF	Mafic Skarn	M	W	W	-	-	W	T	W	S	P	20.57	21.20	0.63	871	0.63	100
			~60% mafic skarn minerals, ~20% QZ+CA, 15% sulphides,																				
	35°	37.30	PY >> PO >> CP, sulphides strongest at upper contact, alternates																				
			between black and white color, most mafic minerals appear to be																				
		38	actinolite																				
			21.20	23.50	2.30	KRA2	Skarnified porphyry	T	T	-	-	-	W	T	T	M	M	21.20	23.50	2.30	872	2.18	95
			grades from light to medium green, weak to moderately skarnified porphyry																				
			skarn minerals more common near veinlets and fractures, common white																				
			QZ-CA veinlets decreasing down section, contacts gradational																				
		40																					
			23.50	30.95	7.45	KRA2	Plag ± HB porphyry	-	-	-	-	-	T	-	-	T	T	23.50	25.98	2.48	873	2.48	100
			medium green, fresh to trace skarnified porphyry, <1 to 10%																25.98	28.46	2.48	874	2.37	96
			phenocrysts, mainly plagioclase <1mm to 5mm long, less common HB																28.46	30.95	2.49	875	2.43	98
			phenocrysts common white QZ-CA veinlets, interval either																				
		42	represents several different porphyry dykes or phases in a large dyke																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 **Zone:** Page 4 of 6

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	Scale change		30.95	31.56	0.61	SKRN	Mixed Skarn SKMF	W	W	W	-	-	M	W	M	M	P	30.95	31.56	0.61	M012876	0.61	100
		15°	black, medium green, pinkish-red, ~45% MF, ~20% MG, ~15% GA, ~5% EP, ~10% sulphides (PY=PO>CP), ~5% QZ-CA strong CA and some patches, gradational contacts at ~45° to core axis,																				
			46																				
			31.56	33.53	1.97	KRA3	Skarnified Porphyry	T	T	-	-	-	W	W	T	W	M	31.56	33.53	1.97	877	1.95	99
		25°	pale & medium green, grades from weakly skarnified in middle of interval to strongly skarnified near lower contact, all contacts gradational, very common fracture fillings and irregular <1mm wide white QZ-CA																				
			50	veinlets less common toward 33.53m																			
			33.53	34.10	0.57	SKRN	Mixed Skarn SKMF	W	W	W	-	-	M	W	M	M	P	33.53	34.10	0.57	878	0.54	95
		30°	~20% MG, ~20% GA, ~20 MF, ~25% QZ-CA (strong CA and some patches) 10% sulphides (PY>PO>CP), weak EP. lower contact at 35° to core axis, 3 QZ±CA veinlets <1mm wide, all minerals occur																				
			54	as patches and less commonly as disseminations																			
			34.10	35.19	1.09	FALT	Fault Zone	-	-	-	-	-	-	-	-	-	-	34.10	35.19	1.09	879	1.09	100
		25°	white with slight green tinge, very strong shear zone, ~60% clay gouge with ~40% bleached and crumbly angular rock fragments or quartz fragments, near contacts rock becomes grey clay with fine grained																				
		10°	58	crushed sulphides.																			
			35.19	35.50	0.31	SKMG	Magnetite Skarn	W	W	T	-	-	T	T	S	M	P	35.19	35.50	0.31	880	0.31	100
		80°	black, ~70% magnetite, 10% sulphides (PY>PO>CP), 10% mafic skarn minerals 10% others, mainly CA as disseminations in rock or																				
			<1mm wide irregular fracture fillings															Blank			881		
			62															Y4	Sample		M012018		
			35.50	37.30	1.80	KRA3	Porphyry	T	-	-	-	-	W	T	T	W	W	35.50	37.30	1.80	882	1.71	95
		45°	medium green, trace to weakly skarnified porphyry, similar to interval below but with very common white QZ-CA veinlets near upper																				
			contact grading to 6/m toward lower contact, 7cm at upper contact is																				
			66	strongly sheared with minor clay gouge																			
			37.30	106.68	69.38	KRA2	Plag ± HB Porphyry	-	-	-	-	-	-	-	-	-	-	37.30	39.62	2.32	883	2.20	95
		40°	medium green, entire interval is porphyry, appears to be several															39.62	42.67	3.05	884	3.02	99
			different phases or different ages, some contacts are visible as															42.67	45.72	3.05	885	3.04	100
			chain contacts some are lost in chilled margins of large blocks															45.72	48.77	3.05	886	2.96	97
			70															48.77	51.82	3.05	887	2.98	98

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 **Zone:** Page 5 of 6

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	Sulphides: PO	Sulphides: CP	Sulphides: IL	Sulphides: CS	Alteration: GA	Alteration: HP	Alteration: MC	Alteration: MF	Alteration: SK
		74					69.6 - 69.8 m garnet > QZ-CA > MF storn										
							49m 3mm fine grained white QZ-CA vein/s at 35° to core axis										
							51.82m 7cm wide vein same as ore above at 55° to core axis, sharp contacts, no other colours										
		78															
	45°						60.90m 7cm zone of white QZ-CA sheer at 45° to core axis										
		82															
	45°																
		86															
	25°	90															
	45°	94															
		98															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
51.82	54.86	3.04	M012888	3.04	100
54.86	57.91	3.05	889	2.96	97
57.91	60.96	3.05	890	2.99	98
60.96	64.01	3.05	891	2.94	96
64.01	67.06	3.05	892	2.97	97
67.06	70.10	3.04	893	3.04	100
70.10	73.15	3.05	894	2.59	85
73.15	76.20	3.05	895	2.94	96
76.20	79.25	3.05	896	3.00	98
79.25	82.30	3.05	897	2.93	96
82.30	85.34	3.04	898	2.93	96
85.34	88.39	3.05	899	2.77	91
	Blank		900		
1/4 sample			M012019		
88.39	91.44	3.05	901	2.58	85
91.44	94.49	3.05	902	3.05	100
94.49	97.54	3.05	903	2.67	88
97.54	100.58	3.04	904	2.98	98
100.58	103.63	3.05	905	2.84	93
103.63	106.68	3.05	906	2.98	98

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-16 **Zone:** Page 6 of 6

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	KS	Alteration GA	EP	WK	MF	CK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	45°/20°						100.1m 1cm Q2 vein at 40° to core axis with sulphides along edges																
							100.52m ~1cm Q2 vein at 20° to core axis with minor pyrite																
	45°/	102																					
							- slightly more broken and ~20/m < 2mm white Q7-CA veinlets																
	45°/	106																					
EOH	106.68																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-15 **Zone:** Zone A Page 1 of 6

Northing: 6 870 984.7 Easting: 516 471.1 Elevation: 1395.1 | Depth | Collar | EOH
Drilling Dates: July 1-2, 2004 Logged By: T.C. Becker Length: 53.34 | Dip | -50° | -46°
Core Diameter: BTW Casing Depth: 2.44 Casing: In / Out | Azimuth | 348½ | n.a.

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	PY	PO	CP	LI	CS	GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	2.44	2.44	OVBR	Overburden	-	-	-	-	-	-	-	-	-	-						
			- very poor recovery																				
			- casing to 2.44 m started coring at 2.44m in SKMG																				
		2																					
		2.44	2.44	4.75	2.31	SKMG	Magnetite Skarn	W	T	T	T	-	W	W	S	M	P	2.44	3.59	1.15	M012827	1.12	97
			black, medium green to white, ~40% magnetite, 20% mafic skarn minerals, 20%															3.59	4.75	1.16	828	1.14	98
			calcite and quartz, 10% sulphides PY > PO > PY, minor to trace EP + GA,																				
			most minerals occur as patches and less commonly as fine disseminations																				
		4	lower contact sharp alteration front																				
	10°/		4.75	6.42	1.67	KRA2	Moderately skarnified porphyry	T	-	-	T	-	W	T	T	W	S	4.75	6.42	1.67	829	1.61	96
	45°/	4.75	pale light green to pinkish red, grades from bleached porphyry near																				
	800		areas of stronger quartz veining to mod-strong garnet, <1-4mm																				
			wide white quartz-calcite veinlets and discontinuous fractures																				
		6	are common, usually with bleached alteration envelopes																				
		6.42	6.42	9.00	2.58	KRA2	Plag-HB porphyry	T	-	-	-	-	W	-	-	W	W	6.42	9.00	2.58	830	2.41	93
			pale to medium green, aphanitic matrix with ~10% <2mm plagioclase																				
			phenocrysts, common white to pale tan <1-4mm wide QZ-CA veinlets,																				
			various orientations + discontinuous fractures, common alteration envelopes																				
		8	and rock is 'bleached', gradational contacts																				
			9.00	9.90	0.90	KRA3	Plag ± HB porphyry	T	-	-	T	-	W	-	-	M	M	9.00	9.90	0.90	831	0.90	100
		9.00	pale tan to light green, broken and sheared in places with more																				
			clay alteration and bleaching, actinolite present, stronger skarn minerals																				
		9.90	than on either side, trace veinlets and fractures																				
		10																					
			9.90	11.20	1.30	KRA3	Plag ± HB porphyry	T	-	-	W	-	W	-	-	W	W	9.90	11.20	1.30	832	1.28	98
	45°/		pale green to light brown, aphanitic porphyry dyke with ~5%																				
		11.20	<1mm phenocrysts, trace hairline fractures, some with calcite																				
			20 cm on either side of 10.67m the rock is LI stained																				
		12																					
			11.20	19.70	8.50	KRA1	Plag-HB porphyry	T	-	-	-	-	W	-	-	W	W	11.20	14.03	2.83	833	2.78	98
			dark greyish-green aphanitic matrix with 10-20% phenocrysts															14.03	16.86	2.83	834	2.83	100
			from 3-11 mm in size, Plag = HB >> quartz eyes, most phenocrysts															16.86	19.70	2.84	835	2.75	97
			altered to calcite and secondary minerals and minor clay																				
		14	minor white fractures and veinlets with white QZ-CA																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-15 **Zone:** Page 2 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	GS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							very minor ~1mm quartz veinlets with bleached alteration envelopes and some garnet																
							18.50 - 18.75m stronger skarn minerals and bleached rock near a area of stronger Qz veining and brittle deformation															
	20°	16	19.70	20.36	0.66	KRA2	skarnified porphyry	SKGA	T	-	-	T	-	W	W	T	M	M	1970	2036	0.60	M012836	0.60	100
			Pale tan to greenish, moderate to strongly skarnified, original texture destroyed, gradational contacts, common mafic skarn minerals, common calcite, weak to mod GA + EP, trace sulphides																				
		18	20.36	22.86	2.50	KRA3	Plag ± HB Porphyry		T	-	-	-	-	W	T	-	W	W	20.36	22.86	2.50	837	2.45	98
	10°		light green with pinkish-red bands, weakly skarnified except near <1-3mm quartz veinlets where skarn minerals are stronger, GA + EP occur as																				
		19.70	envelopes near veinlets																				
		20																					
		20.36	22.86	25.40	2.54	SKRN	Mixed Skarn	SKGA	T	-	-	-	-	M	W	M	M	P	22.86	25.40	2.54	838	2.54	100
			black, green, pinkish-red and tan, ~30% garnet, ~15% MG, ~15% MF, ~15% tan carbonates, ~5% EP, <5% sulphides PY > PO > CP, gradational contacts,																Y4 Sample			M012016		
	45°		appears to be centered on two 1cm quartz veins at 10-15° to core axis,																				
	45°	22	with stronger skarn minerals near by, sulphides along Q2 veins,																				
		22.86	pale tan carbonate and garnet occur together along with hairline																				
	10°		discontinuous fractures, magnetite and MF occur peripheral to																				
	15°		garnet																				
		24																					
			25.40	28.17	2.77	KRA3	Plag ± HB Porphyry		-	-	-	-	-	W	T	-	W	W	25.40	28.17	2.77	839	2.77	100
	45°		pale green with minor pinkish-red areas, weakly skarnified except near																				
		25.40	some veinlets where skarn minerals are more common, common <1-1mm																				
	60°		white, Q2-CA veinlets, some with narrow bleached envelopes, trace																Blank			840		
	80°	26	sulphides along some fractures																				
			both contacts are the result of alteration fronts, weak CA disseminated																				
			in rock, more common along veinlets and fractures																				
		28																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-15 **Zone:** Page 3 of

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MG	NF	SK
		28.17	28.17	32.50	4.33	KRA3	Plag ± HB Porphyry medium green to slightly pinkish very fine grained matrix but not as aphanitic as the following interval, weakly porphyritic with <1mm plagioclase phenocrysts, skarnification increases toward some narrow quartz veinlets with some areas of pale green to tan bleaching, fairly common white QZ-CA veinlets 1-4mm wide, some as discontinuous fracture filling or veinlets - lower contact is sharp at 35° to core axis	-	-	-	-	-	T	T	-	T	T
	40°	30															
	55°																
	35°	32															
		32.50	32.50	34.43	1.93	KRA2	Plag porphyry med to dark green aphanitic groundmass with 1-2mm fresh rectangular plagioclase phenocrysts (~7%), less common and smaller mafic phenocrysts fresh to trace skarn minerals, white QZ-CB veinlets are most common near contact and lower contact obscured by numerous <1mm veinlets	-	-	-	-	-	-	-	-	-	-
	35%	34															
		34.43	34.43	37.10	2.67	KRA3	Plag ± HB Porphyry medium green to light green or white near bottom skarnification increases toward lower contact, common <1mm white QZ-CA veinlets and fracture filling, irregular and discontinuous, trace pyrite along some fractures	T	-	-	-	-	W	W	-	W	W
		36															
		37.10	37.10	38.00	0.90	KRA3	Bleached + brecciated porphyry pale tan to light green, 25cm in middle of interval is strongly skarnified broken and brecciated rock in a matrix of pale tan carbonates, no calcite, angular fragment <3mm are very common	T	-	-	-	-	M	W	-	M	S
	35%	38															
		38.00	38.00	41.75	3.75	SKGA	Garnet skarn SKEP pinkish-red with patches of black, medium green and epidote green, 760% GA, 10-15% mafic minerals, 5% epidote, strong calcite in matrix and as patches to 1cm in size, ~6 white QZ-CA veinlets, common irregular discontinuous hairline fractures, both contacts are gradational and related to alteration - sulphides fairly common as disseminations in rock or along narrow veinlets	T	T	-	-	-	S	M	-	M	P
	20%	40															
		41.75															
		42															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
28.17	30.33	2.16	M012841	1.89	88
30.33	32.50	2.17	842	2.09	96
32.50	34.43	1.93	843	1.93	100
34.43	37.10	2.67	844	2.55	96
37.10	38.00	0.90	845	~90	100
38.00	39.25	1.25	846	1.25	100
39.25	40.50	1.25	847	1.25	100
40.50	41.75	1.25	848	1.25	100

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-15 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MA	VF	SI	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			41.75	43.59	1.84	KRA3	Plag ± HB Porphyry	T	-	-	-	-	W	T	-	W	W	41.75	43.59	1.84	[illegible]849	1.84	100
			medium to dark green, aphanitic groundmass with trace to 3% phenocrysts																				
		43.59	predominately white plagioclase with less common HB, numerous <1mm																				
			discontinuous and irregular white Q2-CA veinlets to fracture filling,																				
		44	weak skarn minerals near narrow quartz veinlets.																				
		44.42	43.59	44.42	0.83	SkMF	Mafic skarn	SkPy	W	T	W	-	-	W	T	T	S	P	43.59	44.42	0.83	850	0.83	100
	45°/		alternating black and white, over 60% medium to coarse grained disseminated																				
	60°		black mafic minerals in a matrix of white calcite with minor																				
	45°/		quartz. ~3% of interval is patches of pyrite up to 5 cm in size or																				
		46	as fine disseminations, CP mixed with PY or as disseminations																				
			44.42	47.24	2.82	KRA2	Plag ± HB Porphyry	T	-	-	-	-	W	T	-	W	W	44.42	47.24	2.82	851	2.82	100
			dark to medium green, matrix aphanitic to fine grained with minor																				
		47.24	phenocrysts of HB. not a 'classic' porphyry, common 1-2mm white Q2-CA																				
			veinlets																				
		46																					
			47.24	53.34	6.10	KRA2	Plag ± HB Porphyry	T	-	-	-	-	T	T	-	T	T	47.24	50.29	3.05	852	3.05	100
	35°/		medium to dark green, 'classic' porphyry, maybe one large dyke with																50.29	53.34	3.05	853	3.05	100
	45°		different phases or several different narrower dykes. ~5-10%																				
			plagioclase phenocrysts from 1-10mm in size, usually rectangular or																				
		50	prismatic, HB phenocrysts are less common and smaller, quartz eyes																				
			are locally common																				
	45°	52																					
EOH	53.34																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-14 Zone: Zone A Page 1 of 4

Northing: 6,870,986.2 Easting: 516,472.3 Elevation: 1395.3 Depth Collar EOH
Drilling Dates: June 30-July 1/04 Logged By: T.C. Becker Length: 47.24m Dip -51° -47°
Core Diameter: BTW Casing Depth: 2.43m Casing: In / Out Azimuth 034° n a

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	M	CP	LI	CS	Alteration: GA	EP	ING	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	2.13	2.13	OVBR	Overburden																
			- no core recovered, drillers started coring at 2.13m																				
		2																					
		2.13	2.13	2.73	0.60	SKMG	Magnetite skarn SKRN	T	-	-	T	-	T	W	M	M	P	2.13	2.73	0.60	M012802	0.60	100
			- black to light green to clear quartz, strongly skarnified rock, no																				
		2.73	original texture present, common (~20%) magnetite, usually as <2mm																				
	30°		spots to fine disseminations, most of unit is white quartz with																				
		4	scattered epidote and mafics, trace fine grained disseminated pyrite																				
	50°		hole collared in skarn, lower contact sharp with structures at 15 and																				
	10°		20° to core axis, no CA in matrix of rock																				
		6																					
			2.73	8.65	5.92	KRA2	Plag ± HB Porphyry	T	-	-	T	-	T	T	-	T	T	2.73	5.69	2.96	803	2.98	100
			dark to medium green, trace to weakly skarnified porphyry, common wh.te															5.69	8.65	2.96	804	2.98	100
			QZ-CA veinlets 1-4 mm wide, no to trace CA in matrix of rock, weak																				
			alteration near some veinlets, gradational contacts																				
		8	4.57 - 4.68 magnetite skarn, ~50-60% Mg trace sulphides																				
	35°	8.65	8.65	11.68	3.03	KRA2	Bleached Porphyry	T	-	-	T	-	T	T	-	T	T	8.65	11.68	303	805	2.61	86
			light green, increased quartz veining, some with fine grained sulphides																				
			moderate white QZ-CA veinlets 1-2mm wide, bleaching of porphyry																				
			likely due to increased quartz veining																				
	35°	10																					
			11.68	17.72	6.04	KRA2	Plag ± HB Porphyry	T	-	-	T	-	T	T	-	T	T	11.68	14.70	3.02	806	2.93	97
			medium to dark green, trace to weak skarn minerals, local narrow areas															14.70	17.72	3.02	807	3.02	100
			of stronger skarn minerals, common < 1mm white QZ-CA veinlets,																				
	10°	11.68																					
		12																					
	35°																						
	45°																						
	55°																						
		14																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-14 **Zone:** Page 2 of 4

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: FY	Sulphides: HP	Sulphides: CP	Sulphides: LI	Sulphides: CS	Alteration: GA	Alteration: EP	Alteration: IMG	Alteration: MF	Alteration: CK
	20° / 10° / 40° / 45° / 55° / 35° / 45° / 30° / 35° / 52°/c	16 / 17.72 / 18 / 20 / 22 / 24 / 24.25 / 24.71 / 26 / 26.66 / 26.90 / 28	17.72	24.25	6.53	KRA2	Plag ± HB porphyry medium green colour, trace to weakly skarnified porphyry, 5-10cm areas with stronger skarn minerals, common < 1mm white QZ-CA veinlets some with alteration envelopes upto 1.5cm wide, and less commonly with fine grained sulphides	T	-	-	-	-	W	T	-	T	W
			24.25	24.71	0.46	SKRN	Mixed Skarn black, light green, pinkish-red, ~30% Garnet, ~30% sulphides + MG, ~30% actinolite and mafic skarn minerals, ~10% epidote, calcite + others, minerals mixed with more sulphides near upper contact and skarn minerals toward lower contact, minerals occur as small patches or disseminations, no original texture in rock, no white QZ-CA veinlets, trace <1mm hairline fractures to quartz veins	M	W	W	-	-	M	W	M	M	P
			24.71	26.66	1.95	KRA3	Plag ± HB Porphyry medium green color, weakly skarnified porphyry, similar to 17.72-24.25 minor < 1mm white QZ-CA veinlets, common hairline fractures most with 1-5mm pale green alteration envelopes some with fine grained sulphides	T	-	-	-	-	W	T	-	T	W
			26.66	26.90	0.24	SKRN	Mixed Skarn black, light green, pinkish-red ~40% actinolite and mafic minerals ~25% garnet, ~20 epidote, calcite, quartz, ~10-15% sulphides + magnetite, unit very similar to 24.25-24.71 m	M	W	W	-	-	N	M	M	S	P

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
17.72	19.89	2.17	MA12808	2.05	94
19.89	22.07	2.18	809	2.18	100
22.07	24.25	2.18	810	2.13	98
24.25	24.71	0.46	811	0.46	100
24.71	26.66	1.95	812	1.87	96
26.66	26.90	0.24	813	623	96

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-14 **Zone:** Page 3 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration CA	EP	MG	MF	SK
	45°/c	28.96	26.90	28.96	2.06	KRAZ	Moderately skarnified porphyry SKGA medium green, pinkish-red grades from mod to strong skarnification from upper to lower contact, original texture of rock partially destroyed, very minor white Qz-CA veinlets, common calcite in matrix	T	T	T	-	-	M	W	W	W	M
	45°/c	29.97															
	45°/25°/35°	30.60	28.96	29.97	1.01	SKRN	Mixed Skarn -black, pinkish-red, epidote green in colour, strongly skarnified ~30% GA, ~30% MG, ~10% EP ~20% MF, ~10% sulphides PY>PO>CP, strong CA diss in matrix, 1 white Qz-CA veinlet, ~4 <1mm fractures/veinlets some with sulphides	W	W	W	-	-	M	M	M	M	P
	45°	32.97	29.97	30.60	0.63	KRAZ	Plag ± HB porphyry medium to dark green, trace skarn minerals in a porphyry with ~10% phenocrysts all < 2mm in size, trace <1mm white Qz-CA veinlets	T	-	-	-	-	T	T	-	T	T
	50°/35°	34															
	35°	35.00	30.60	31.47	0.87	KRAZ	Moderately Skarnified porphyry medium green with white-pink bands, grades from weak to strong skarnified porphyry, gradational contacts, common quartz veinlets up to 8mm wide with skarnified and bleached alteration envelopes, SKUN with Qz-CA, fine grained black sulphides	T	-	-	-	-	N	W	T	W	M
	35°	35.65															
	35°	36															
			31.47	32.97	1.50	SKGA	Garnet Skarn pinkish-red in color, over 60% garnet, with fine disseminated mafics, epidote, patches of pyrite + other sulphides up to 1cm, calcite occurs as patches 1-15mm in size and as disseminations	W	T	T	-	-	S	M	T	M	P
		38															
			32.97	35.00	2.03	KRAI	Plag - HB Porphyry medium green, trace to weakly skarnified porphyry, appears to be a dyke of KRAI with chilled margins, middle of interval with 10-15% phenocrysts up to 1cm in length HB, ~5/m 1-4mm quartz-CA veinlets usually with 3-20 mm bleached and skarnified alteration	T	-	-	-	-	T	T	-	T	T
		40															
		40.22					envelopes, ~3 white Qz-CA veinlets ~1mm in width										
		42															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
26.90	28.96	2.06	M012814	2.06	100
28.96	29.97	1.01	815	1.01	100
29.97	30.60	0.63	816	0.63	100
30.60	31.47	0.87	817	0.87	100
31.47	32.97	1.50	818	1.50	100
Y4 sample			M012015		
32.97	35.00	2.03	819	1.97	97
Blank			820		

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-14 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: Py	Po	Sp	Ll	CS	Alteration: CA	FP	MC	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			35.00	35.65	0.65	KRDR	Diorite	-	-	-	-	-	T	T	-	T	T	35.00	35.65	0.65	A012821	0.61	
			salt and pepper coloured, fresh to trace skarn minerals near some veinlets, contacts intrusive and sharp, fine-medium grained, minor irregular white quartz veinlets																				
		44																					
			35.65	40.22	4.57	KRA3	Plag ± HB porphyry	-	-	-	-	-	T	T	-	T	T	35.65	37.93	2.28	A22	2.28	100
	50°/B		dark green with minor light green alteration envelopes, trace skarn minerals															37.93	40.22	2.29	A23	2.18	99
			most of interval is no to ~1% phenocrysts with phenocrysts																				
			more common (upto 8%) in first m of interval, toward lower contact																				
	45°/B	46	contains large fragments of sediments, trace CA in matrix of rock,																				
			trace white QZ-CB veinlets <1mm in size, common hairline fractures																				
			to 1mm wide usually with 1-4 mm bleached alteration																				
			envelopes with trace skarn minerals																				
EOH	47.24																						
			40.22	47.24	7.02	DFMS	Siliceous Mudstone	-	-	-	-	-	T	T	-	T	T	40.22	42.56	2.34	A24	2.32	99
			pinkish green to light green in colour, appears to be a mixed interval															42.56	44.90	2.34	A25	2.34	100
			with >80% siliceous mudstone and ~20% porphyry dyke,															44.90	47.24	2.34	A26	2.30	98
			either large fragments of mudstone with porphyry matrix or																				
			porphyry intruded parallel to banding in mudstone																				
			- mudstone is layered as light green to pinkish bands <1mm																				
			to 1cm wides - porphyry consists of <2mm plag phenocrysts																				
			in a fine grained pinkish matrix no calcite in DFMS or KRA2																				
			- fairly common white QZ ± CA veinlets, usually irregular and																				
			discontinuous, common 1-5mm veinlets to hairline fractures																				
			with bleached alteration envelopes and trace sulphides																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-13 **Zone:** Zone A

Northing: 6,870,971.9 Easting: 516,496.4 Elevation: 1410.0 Depth: Collar EOH

Drilling Dates: June 29-30 2004 Logged By: T.C. Becker Length: 533.4 m Dip: -50° -49°

Core Diameter: BTW Casing Depth: 6.10 m Casing: In / Out Azimuth: 356° no

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	K	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	5.49		OVBR	Overburden	-	-	-	-	-	-	-	-	-	-						
			- virtually no recovery																				
		2																					
			5.49	10.36	4.87	SKRN	Weathered, skarnified + mineralized	T	T	T	S	T	M	W	W	M	P	5.49	7.93	2.44	M012676	2.15	88
			Very light tan to black, strongly weathered, limonite on all fractures and															7.93	10.36	2.43	677	1.95	80
			very common boxwork limonite with common pits, ~5% fine grained																				
			disseminated black sulphides to coarser grained fresh pyrite usually in																				
		4	larger fragments away from fractures, weak disseminated epidote																				
		5.49																					
		6																					
	30°																						
		8																					
			10.36	11.70	1.34	KRA2	Weakly weathered + skarnified porphyry	T	-	-	M	-	W	-	-	-	W	10.36	11.70	1.34	678	1.34	100
	45°		light brown to light green, grades from strongly weathered at																				
			upper contact to less weathered at lower contact, white QZ-CA																				
			veinlets are strongest at upper contact and decreasing down hole,																				
		10																					
		10.36																					
	35°																						
		11.70																					
		12																					
	55°		11.70	19.01	7.31	KRA2	Plag ± HB porphyry	-	-	-	-	-	-	-	-	-	-	11.70	14.13	2.43	679	2.43	100
	45°		med to light green, weakly skarnified porphyry, ranges from fine grained															14.13	16.57	2.44	680	2.20	90
			slightly porphyritic to 15% phenocrysts < 2 mm in size mainly plag															16.57	19.01	2.44	681	2.43	100
			phenocrysts and less common HB phenocrysts, minor white QZ-CA veinlets,																Blank		682		
		14	about the same number of tan to light grey quartz veinlets																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-13 **Zone:** Page 2 of 4

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: GA	FP	MG	MF	SK
							most with bleached alteration envelopes 1-3mm wide and occationally pervassive in the rock										
		16															
							1846 - 1864 Skarn vein ? stronger skarn minerals, ~10% fine grained sulphides in a shear structure, mainly pyrite with lesser PO and MG and trace CP. sharp contacts at 50-60° to core axis										
		18															
	50°		19.01	19.55	0.54	FALT	Fault / Brecia Zone	T	T	-	M	-	T	T	-	T	W
		19.01					~20cm brecia interval in middle of interval with ~80% <1-10mm angular fragments in a matrix of QZ, CA and tan carbonates with common LT and boxwork limonite with cavities, surrounding rocks are slighlty leached / bleached with limonite coated fractures to										
		19.55															
		20															
	10°						narrow breccia zones, toward edge of interval are 1-2mm veinlets with fine grained sulphides										
	80°																
		22															
			19.55	30.26	10.71	KRAZ	Plag ± HB porphyry	T	T	-	-	-	T	T	-	T	T
	45°						dark to light green, most of interval consists of porphyry with 5-10% <2mm phenocrysts of plagioclase ± HB, local areas have no to trace phenocrysts, difficult to tell if there are multiple porphyry										
		24					dyke cross cutting each other or phases and chilled margins of										
	76°						larger dykes, minor CA in rock matrix, trace to weak skarn minerals strongest near areas of veinlets, fairly common white QZ-CA veinlets										
	10°						most 1-3mm wide with alteration envelopes from 1mm to										
		26					pervassive over 1-2cm long areas										
							- trace sulphides along some veinlets										
		28															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
19.01	19.55	0.54	MQ12683	0.54	100
Y4	Sample		MQ12013		
19.55	21.90	2.35	684	2.35	100
21.90	24.25	2.35	685	2.35	100
24.25	26.60	2.35	686	2.25	96
26.60	28.96	2.36	687	2.36	100
28.96	30.26	1.30	688	1.30	100

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-13 **Zone:** Page 3 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	cP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							after 28.96 skarn minerals increase with lower contact marked by strong garnet skarn and no white QZ-CA veinlets, lower contact gradational																
	35°	30																					
		30.26	30.26	31.64	1.38	SKRN	Mixed Skarn ± sulphides SKPY	W	W	T	T	-	M	M	W	M	P	30.26	31.64	1.38	M012689	1.38	100
	30°		light green to pinkish-red to epidote green, 20-30% of interval is																				
		31.64	sulphides or magnetite, 10% epidote, 25% garnet, 15% mafic skarn minerals,																				
			the remainder is quartz, calcite and tan carbonate minerals, no																				
		32	white QZ-CA veinlets, trace irregular QZ veinlets, original																				
	70°		texture of rock destroyed																				
		34																					
	45°		31.64	38.81	7.17	KRA2	Plag ± HB Porphyry	T	T	-	-	-	W	T	T	T	W	31.64	33.53	1.89	690	1.89	100
			light to medium green color, moderate skarn minerals (mainly GA) upto 33.53m																33.53	36.17	2.64	691	2.64	100
	40°		remainder of interval ranges from moderate to weak to trace																36.17	38.81	2.64	692	2.64	100
		36	skarn minerals, mainly GA > MF > EP with trace sulphides, most of																				
			interval with plag > HB and < 2mm phenocrysts but locally HB																				
	35°		becomes more common upto 7% with phenocrysts up to 1.5cm in size																				
			toward lower contact white QZ-CA veinlets become more common																				
		38																					
			38.81	41.00	2.19	SKRN	Mixed Skarn	W	W	T	-	-	M	W	W	M	P	38.81	41.00	2.19	693	2.19	100
		38.81	grades from light green to dark green to pinkish red, strongly skarnified rock,																				
			~30% GA, 10% EP, 25% MF + chlorite, 20% tan-white carbonate, common CA																				
			in matrix, ~10% sulphides mainly PO, gradational contacts, no to minor																				
		40	white QZ-CA veinlets																				
			41.00	47.46	6.46	KRA2	Plag ± HB Porphyry	-	-	-	-	-	T	T	-	T	T	41.00	43.15	2.15	694	2.15	100
	45°	41.00	medium to dark green, trace skarn minerals in a porphyry with < 1%																43.15	45.30	2.15	695	2.15	100
			to 15% phenocrysts, all < 2mm in size, mod CA in matrix, common																45.30	47.46	2.16	696	2.09	97
			<1mm white QZ-CA veinlets, some irregular and almost a irregular																				
		42	fracture, some with narrow alteration envelopes																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-13 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	AS	CP	LI	CS	Alteration CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	30°/																						
		44																					
	30°/		47.46	47.85	0.39	SKPO	Pyrrhotite Skarn, SKPY	M	M	T	-	-	M	W	M	M	P	47.46	47.85	0.39	M012697	0.39	100
			redish, black, bronze, semi-massive sulphide skarn, <45% sulphides + MG, >55% skarn minerals, sulphides occur as patches to disseminations, PO > PY = MG > CP, skarn minerals consist of GA > ME > EP, some hairline															Blank			698		
		46	fractures, no veinlets, sharp contacts															Y4	sample		M012014		
	45°/C	47.46																					
	0.39 C	47.85 48																					
			47.85	48.77	0.92	KRA2	Plagioclase ± HB porphyry	T	-	-	-	-	W	T	-	W	W	47.85	48.77	0.92	699	0.92	100
		48.77	dark green, ~10% phenocrysts < 2mm in size, minor <1mm white QZ-CA veinlets																				
	45°/B	50																					
			48.77	53.34	4.57	DFMS	Siliceous Mudstone	-	-	-	-	-	W	T	-	W	W	48.77	51.05	2.28	700	2.28	100
	40°/B		alternating bands of pale green and pinkish-red, weakly skarnified siliceous mudstone, layers are 1mm to 10mm wide															51.05	53.34	2.29	M012801	2.29	100
			no clear relationship between veinlet orientation and bedding																				
	35°/B	52																					
			- common <1mm wide white QZ-CA veinlets, some irregular and discontinuous.																				
EOH		53.34																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-12 **Zone:** Zone A

Northing: 6870 970.7	Easting: 516 498.1	Elevation: 1410.0	Depth	Collar	EOH			
Drilling Dates: June 28-29/04	Logged By: T.C. Becker	Length: 56.39	Dip	-50.5	-51°			
Core Diameter: BTW	Casing Depth: 2.44	Casing: In / (Out)	Azimuth	076°	na			

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	AS	CP	LI	KS	Alteration: CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	3.05	3.05	OVBR	Overburden	-	-	-	-	-	-	-	-	-	-						
			very poor recovery, casing to 2.44m																				
		2																					
			3.05	4.18	1.13	KRA2	Plag ± HB Porphyry Dike	T	-	-	S	-	T	-	T	-	T	3.05	4.18	1.13	M012638	0.90	80
		3.05	dark green, limonite on all fractures and within some rock																				
		4																					
		4.18	4.18	6.32	2.14	KRA2	Skarnified Porphyry SkMG	W	T	-	W	-	W	W	M	M	M	4.18	6.32	2.14	639	2.03	95
			- dark green to light green to white in color, moderate to strongly skarnified porphyry, strong CA in matrix, weak - mod. white QZ-CA veinlets - moderate MG as patches or fine disseminations, trace disseminated fine grained sulphides																				
		6																					
		6.32	6.32	8.80	2.48	KRA2	Plag ± HB Porphyry	-	-	-	T	-	-	-	-	-	-	6.37	8.80	2.48	640	2.41	97
			dark green fresh to trace skarn minerals, all phenocrysts < 2mm in size, 3-15%, mainly plag with much less HB, common 1-3mm white QZ-CA veinlets, weak calcite in matrix																				
		8																					
	30°/		8.80	9.87	1.07	SKGA	Garnet skarn SKEP	T	T	-	T	-	S	M	W	W	P	8.80	9.87	1.07	641	1.04	97
		8.80	light green to pale pink, strong skarnification no original rock texture moderate CA in matrix, disseminated to patches of MG+EP, trace fine grained sulphides, GA >> EP = MF > MG > sulphides																Blank			642		
	40°/	9.87																	Y4	sample		M012012		
	50°C	10																					
			9.87	11.89	2.02	KRA2	Plag ± HB Porphyry	-	-	-	-	-	-	-	-	-	-	9.87	11.89	2.02	643	1.88	93
			dark green, common <2mm plag phenocrysts less common HB, common white QZ-CB veinlets, upper contact sharp, lower contact gradational																				
		11.89																					
		12																					
			11.89	12.61	0.72	SKGA	Garnet Skarn	T	-	-	W	-	S	M	W	W	P	11.89	12.61	0.72	644	0.68	94
		12.61	- pale pinkish to pale tan, strongly skarnified, original texture																				
	25°/c	12.87	destroyed, minor white QZ-CA veinlets, common hairline fractures all																				
		13.25	with limonite coating																				
		13.75																					
		14																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-12 **Zone:** Zone A

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: GA	EP	MG	ME	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	45°	16	12.61	12.87	0.26	SKPY	Pyrite Skarn massive pyrite, ~90% pyrite, ~10% ME, Plag, EP GA sharp contacts at ~25° to core axis, trace other sulphides, trace CA in matrix	S	T	T	T	-	T	T	T	T	P	12.61	12.87	0.26	M012645	0.26	100
		16.95	12.87	13.25	0.38	KRA3	Plag ± HB Porphyry dark green to black, fine grained, minor phenocrysts, weakly skarnified, common Li along fractures	T	-	-	T	-	T	T	T	T	T	12.87	13.25	038	646	0.38	100
		18	13.25	13.76	0 51	SKPO	Pyrrhotite Skarn SKPY massive pyrrhotite, ~90% pyrrhotite, strongly magnetic, ~10-15% ME, Plag, EP GA minor magnetite but, pyrrhotite appears to be magnetic, contacts are gradational,	M	S	T	-	-	T	T	T	T	P	13,25	13,76	051	647	0.51	100
	30°	19.85																					
	25°	20	13.76	16.95	3.19	KRA2	Mod skarnified Porphyry SKEP alternate between medium and light green, moderately skarnified porphyry, moderate calcite in matrix, plagioclase phenocrysts visible for most of	T	T	T	T	-	M	W	T	M	M	13.76	16.95	3.19	648	3.09	97
		21.60					interval, locally destroyed by skarnification, minor white QZ-CA veinlets,																	
		22					common discontinuous hairline fractures. MF = EP ≥ GA																	
			16.95	19.85	2.90	KRA2	Mod skarnified Porphyry SKGA light green to pinkish-red, similar to above with more reddish garnets, moderate calcite in matrix, minor white QZ-CA veinlets, common discontinuous hairline fractures. GA > MF = EP >> MG + sulphides	T	T	T	T	-	M	W	T	M	M	16.95	19.85	2.90	649	2.59	89
		22.98																					
		24																					
	30°		19.85	21.60	1.75	KRA2	Mod skarnified porphyry light green, bleached and skarnified porphyry, increased white QZ-CA veinlets toward lower contact,	T	T	T	T	-	W	W	T	M	M	19.85	21.60	1.75	650	1.68	96
		25.07																					
	40°	26																					
	45°		21.60	22.98	1.38	SKRN	Mixed Sulphide Skarn strong skarn mineralization and sulphides, tan to white carbonate minerals (25%) > garnet (~20%) > EP (5%) = PY = CP = PO = MG = ME with ~20% altered rock fragments	M	M	M	-	-	M	M	M	M	P	21.60	22.98	1.38	657	1.38	100
	50°																						
		28																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-12 **Zone:** Zone A

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
+ +	50° / 60°		22.98	25.07	2.09	KRA2	Mod. skarnified porphyry SKGA	T	-	-	T	-	W	W	T	W	M	22.98	25.07	2.09	MA26558	2.09	100
			ranges from strongly skarnified near narrow veinlets to trace skarn minerals in some areas, grades from dark green to pinkish-red. common white QZ-CA veinlets																				
		30																					
			25.07	30.52	5.45	KRDR	Diorite	-	-	-	-	-	-	-	-	-	-	25.07	27.79	2.72	659	2.60	96
		30.52	salt and pepper appearance, fine to medium grained, finer grained															27.79	30.52	2.73	660	2.73	100
			towards margin, chilled margin, white QZ-CA veinlets are more common near contacts																				
		32																					
			30.52	32.34	1.82	KRA2	Mod. skarnified porphyry SKGA	T	-	-	T	-	W	W	T	W	M	30.52	32.34	1.82	661	1.66	91
		32.34	alternates from light to dark green, pinkish to bleached, moderately skarnified																				
		32.85	porphyry, stronger skarnification and less QZ-CA veinlets toward lower																				
			contact, gradational contacts																				
		34																					
			32.34	32.85	0.51	SKRN	Mixed skarn	W	W	W	T	-	N	M	W	M	P	32.34	32.85	0.51	662	0.51	100
			- strongly skarnified with weak sulphides, ~20% sulphides PY>CP=PO=MG,																				
		35.05	GA=MF>EP, gradational contacts, most of the sulphides are																				
	35° / C	35.50	disseminated or local patches of sulphides																				
		36																					
			32.85	35.05	2.20	SKGA	Garnet skarn	T	-	-	T	-	S	W	T	W	P	32.85	35.05	2.20	663	2.15	98
			pinkish-red color, strong skarnification, original texture obscured,																				
			stronger skarnification toward lower contact, trace actinolite and sulphides																				
			at lower contact, trace white QZ-CA veinlets																				
		38																					
			35.05	35.50	0.45	KRA3	Plag-HB porphyry	-	-	-	-	-	-	-	-	-	-	35.05	35.50	0.45	664	0.45	100
			medium green, weakly porphyritic porphyry, minor <1mm Plag + HB																				
			phenocrysts, common irregular and discontinuous QZ-CA veinlets,																				
			weak-mod calcite in matrix and in phenocrysts																				
		40																					
			35.50	40.93	5.43	SKRN	Mixed Skarn	M	M	W	-	-	M	W	M	M	P	35.50	38.21	2.71	665	2.62	97
		40.93	over entire interval ~50% sulphides and magnetite, ~50% other skarn															38.21	40.93	2.72	666	2.70	99
			minerals, ~35% pinkish-red garnet, ~20% magnetite ~10% MF, ~10%																				
			pyrite, ~10% PO, ~5% EP, ~5% CP most of the minerals occur																				
		42	as coarse patches, no white QZ-CA veinlets, minor 1mm QZ veins.																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-12 **Zone:** Zone A

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	AS	CP	LL	CS	Alteration: GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			40.93	42.79	1.86	SKGA	Garnet Skarn	T	-	-	-	-	S	W	T	W	P	40.93	42.79	1.86	M012667	1.86	100
		42.79	pinkish red color, strongly skarnified with original texture destroyed, upper contact at ~20° GA > EP = MF > MG > sulphides, very minor white QZ-CA veinlets, minor haircline fractures																				
		44																					
			42.79	44.20	1.41	KRA2	Plag ± HB Porphyry	-	-	-	-	-	W	W	-	W	M	42.79	44.20	1.41	668	1.36	96
	20°		pale to dark green, 5-7% < 2mm phenocrysts in a fine grained matrix minor white QZ-CA veinlets																				
	30°	46																					
			44.20	49.19	4.99	SKMG	Magnetite Skarn SKRN	T	T	T	-	-	M	W	M	M	P	44.20	46.69	2.49	669	2.37	95
	45°		black to light green to pinkish-red, ~50% patches to disseminations of Mg, 20% pinkish garnet, > MF > EP, strong skarnification with original texture of rock destroyed, gradational contacts, very minor white QZ-CA																46.69	49.19	2.50	670	2.50	100
		48	veinlets, strong CA in matrix of rock																				
			49.19	50.29	1.10	SKGA	Garnet skarn	T	T	T	-	-	S	W	T	M	P	49.19	50.29	1.10	671	1.10	100
		49.19	pinkish red to light green, strong skarnification original texture destroyed, no white QZ-CB veinlets, gradational contacts																				
		50																					
		50.29	50.29	53.67	3.38	SKMG	Magnetite Skarn. SKRN	T	T	T	-	-	M	W	M	N	P	50.29	51.98	1.69	672	1.69	100
			Similar to interval 44.20 - 49.19m except with slightly less magnetite and more GA and MF, trace sulphides PY > PO = CP usually as fine disseminations, gradational contacts																51.98	53.67	1.69	673	1.52	90
		52																					
			53.67	55.12	1.45	KRA2	skarnified + bleached porphyry	-	-	-	-	-	W	W	-	W	S	53.67	55.12	1.45	674	1.45	100
		53.67	light green to tan, skarnified and bleached porphyry, towards end of interval are 1cm quartz veins, with stronger bleaching of rock, minor white QZ-CA veinlets, usually < 1mm wide and discontinuous.																				
		54																					
	50°		55.12	56.39	1.27	KRA3	Plagioclase Porphyry	-	-	-	-	-	M	W	-	W	M	55.12	56.39	1.27	675	1.27	100
	45°		dark green to slightly pinkish, skarnification grades from strong to weak, GA >> MF > EP, minor white QZ-CA veinlets, mod CA diss.																				
	40°		in matrix of rock, more common near areas of stronger skarn																				
		56	minerals																				

EOH 56.39

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-11 **Zone:** Zone B

Northing: 6870,969.0 Easting: 516,495.6 Elevation: 1410.0 Depth Collar
Drilling Dates: June 27-28 2004 Logged By: T.C. Becker Length: 56.39 Dip -50
Core Diameter: BTW Casing Depth: 5.18m Casing: In / (Out) Azimuth 203°

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK
			0.00	2.13	2.13	OVBR	Overburden										
			- drillers report coring started at 7'														
			- recovery prior to that was very poor but some fragments were mineralized														
		2															
		2.13	2.13	3.25	1.12	SkMG	Magnetite skarn	T	T	T	W	-	W	T	S	S	P
			black to dark green in color, strongly skarnified, original texture														
		3.25	destroyed strong magnetite as patches and fine disseminations,														
			strong CA disseminated in matrix, Li on all fractures, no veinlets														
		4	MG > MF > GA >> EP = PY, gradational contacts														
			3.25	5.15	1.90	SKGA	Brecciated and skarnified	T	T	T	M	-	M	T	W	M	P
			colours range from light pink to light green to light tan, most of the														
		5.15	unit displays breccia fragments <1mm to 2cm in size, angular, in a														
			matrix of tan carbonate, greenish matics, MG patches < 5mm and trace														
		6	disseminated sulphides, Breccia fragments consist of strongly garnet														
			skarnified rock, trace disseminated calcite, brecciation strongest														
			in middle of unit, all contacts gradational														
			- limonite on all fractures and penetrating into the rock near														
		8	fractures, no white QZ-CA veinlets, common hairline fractures														
		8.02	5.15	8.02	2.87	KRA2	Weakly brecciated + skarnified Porphyry	T	T	T	S	-	M	T	T	M	S
			strongly weathered, skarnified and brecciated, brecciation is restricted to														
			narrow zones, strongly weathered with limonite on all fractures and														
			within the rock, local boxwork Li after sulphides, trace sulphides as														
		10	fine disseminations, porphyry texture is visible in some fragments														
			8.02	10.67	2.65	KRA2	Weakly bleached + skarnified Porphyry	T	T	-	M	-	W	M	-	S	S
		10.67	light green colour, mod to strong skarnified porphyry, common hairline														
			discontinuous fractures, trace white QZ-CA veinlets, MF >> GA = EP > MG = PY														
			trace sulphides as fine disseminations, limonite on all fractures and														
		12	occasionally into the rock, rock has a bleached appearance														
		12.35	10.67	12.35	1.68	FALT	Bleached clay gouge	-	-	-	T	-	-	-	-	-	-
			gradational contacts into white coloured clays, strongly bleached and														
			leached rock, most of interval is <2mm rock fragments in clay														
			gouge, minor dark grey fragments, possibly fine grained sulphides														
		14															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
2.13	3.25	1.12	M01256 11	1.02	91
3.25	5.15	1.90	612	1.35	71
5.15	8.02	2.87	613	1.74	61
8.02	10.67	2.65	614	2.04	77
10.67	12.35	1.68	615	1.45	86

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-11 **Zone:** Page 2 of 4

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides FY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			12.35	13.96	1.61	KRA2	Brecciated and Skarnified Porphyry	T	T	-	M	-	W	T	T	M	M	12.35	13.96	1.61	M012616	1.49	92
			light tan, light green to medium green in color, moderately weathered and skarnified porphyry and porphyry fragments, brecciated from 12.70 - 13.96 with <1mm - 1cm angular light to med. green skarnified porphyry fragments in a																				
		16	matrix of pale tan QZ-CB and some clear to greenish quartz matrix																				
	35°		both with fine disseminated sulphides, limonite coated cavities common																				
	40°		along hairline fractures to 1cm random pockets, moderate to strong LI,																				
	35°	17.96	along all fractures and occationally pervassive in the rock, no calcite																				
			in rock matrix																				
		18	13.96	17.96	4.00	KRA2	Bleached + Skarnified Porphyry SKGA	T	-	-	W	-	W	T	-	M	M	13.96	15.96	2.00	617	1.90	95
			white to very light green, weak LI along some fractures, original texture															15.96	17.96	2.00	618	2.00	100
			visible with 10-15% <2mm phenocrysts all → white or greenish QZ-sericite or																				
		19.81	clay, trace to no sulphides, common white QZ-CA veinlets <1-3mm wide,																				
			no CA in rock, skarn minerals visible MF>GA>EP, gradational contacts																				
		20	17.96	19.81	1.85	SkMG	Magnetite Skarn SkMF	W	W	T	-	-	T	T	S	M	P	17.96	19.81	1.85	619	1.71	92
			dark green to black in colour, massive magnetite from ~18.80 to 19.20																				
			with trace diss sulphides and some skarn minerals, remainder of unit is															Blank			620		
			strongly skarnified with MF ≥ EP = tan carbonate > GA = MG, calcite is present																				
	70°	22	in most areas															C Y4	Sample		M012011		
			19.81	23.84	4.03	KRA2	Skarnified Porphyry SkEP	T	-	-	-	-	W	M	-	M	S	19.81	21.82	2.01	621	1.96	98
	20°		light to medium green with patches of EP green, mod-STR skarnified porphyry															21.82	23.84	2.02	622	2.02	100
			EP >> GA = MF >> MG + sulphides, common 1-2 mm wide white QZ-CA veinlets																				
	65°	23.84	gradational contacts, original texture partially destroyed, GA skarn																				
		24	minerals more common toward lower contact																				
			23.84	26.03	2.19	KRA2	Plag ± HB Porphyry Dyke	T	-	-	-	-	T	T	-	T	T	23.84	26.03	2.19	623	1.95	89
			medium to dark green, trace to weakly skarnified, EP = GA = MF, strong																				
			CA disseminated in rock, weakly veined by white QZ-CB veinlets,																				
	35°		original texture easily visible, 10-15% <2mm in size phenocrysts																				
		26	½ fresh ½ skarnified																				
		26.03	26.03	28.52	2.49	KRA2	Plag ± HB Porphyry Dyke SKGA	T	-	-	-	-	M	W	-	M	M	26.03	28.52	2.49	624	2.15	86
	55°		grades from light to dark green with pinkish-red + tan areas, moderately																				
			skarnified with original texture partially destroyed, gradational contacts,																				
			weak to mod white QZ-CA veinlets, mod to strong CA in matrix,																				
		28	GA > EP = MF >> sulphides																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-11 **Zone:** Page 3 of 4

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	GS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
		28.52	28.52	33.26	4.74	KRA2	Skarnified and Bleached Porphyry SKEP	T	-	-	-	-	W	M	-	M	M	28.52	30.89	2.37	M12625	2.31	97
			consistantly very pale green to tan color weak to moderately skarnified with EP≥MF>GA, GA occurs as 3-10mm pinkish-red crystals scattered at ~3% of rock, weak to nil CA disseminated in rock, moderate white to pale tan															30.89	33.26	2.37	626	2.30	97
	40°	30	Qz ± CA ± carbonate veinlets, avg ≤1mm wide, irregular + sometimes discontinuous																				
	45°		- bleaching increases toward lower contact where the rock becomes almost white with higher clay content, original texture present in most of the interval as <2mm phenocrysts ~all altered to secondary minerals																				
		32																					
			33.26	34.96	1.70	FALT	Clay altered fault zone				-	-	-	-	-	-	-	33.26	34.96	1.70	627	1.70	100
			33.26-34.10 m white clay altered zone, likely after a fault zone but																				
		33.26	structures are not visible, some <5mm fragments are present but also																				
			altered to clay, some slickensided surfaces visible, some black clays																				
		34	present likely due to fine grained sulphides 34.10-34.96 as 28.52-33.26																				
	45° c		34.96	36.30	1.34	SKMG	Magnetite + Sulphide skarn SKPO	M	S	M	-	-	T	T	S	M	P	34.96	36.30	1.34	628	1.29	96
		34.96	alternates between black magnetite (~50%), Pyrrhotite (15%), Chalcopyrite (8%),																				
	40°		Pyrite (8%) and black mafics with lesser EP=GA, contacts sharp																				
			at 45° and 30° to core axis, 6 white Qz ± CA veinlets 1-10mm wide																				
		36	35-45° to core axis, weak to moderate CA in matrix																				
	35° c	36.30																					
			- Sulphides form 0.5-10cm patches of dominately one mineral or																				
			bands and less comonly as disseminations or intergrown mixture																				
			of sulphides, likewise MG occurs as patches, skarn minerals are																				
		38	usually mixed.																				
		38.10	36.30	38.10	1.80	KRA3	Plag ± HB porphyry SKGA	T	-	-	T	-	W	T	-	T	T	36.30	38.10	1.80	629	1.24	69
			dark green, weak to trace skarn minerals, rock broken and fractured																				
			with common white Qz-CB veinlets decreasing away from upper																				
			contact																				
		40																					
			38.10	48.77	10.67	KRA3	Plag ± HB porphyry SKGA	T	-	-	T	-	W	T	-	T	T	38.10	40.76	2.66	630	2.52	95
			dark green to black, except with a pinkish tinge near area of stronger GA																				
			skarn, 5-10% phenocrysts, <2mm, locally no phenocrysts															40.76	43.43	2.67	631	2.67	100
																		43.43	46.10	2.67	632	2.38	89
																		46.10	48.77	2.67	633	2.52	94
		42																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-11 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	45°/50°	44																					
	70°																						
	69	46																					
	30°																						
		48	48.77	50.75	1.98	KRA1	Plag - HB Porphyry Dyke	-	-	-	-	-	-	-	-	-	-	48.77	50.75	1.98	M012634	1.82	92
		48.77	dark green to black, 7% plag phenocrysts <1-2mm in size, 7-10% HB phenocrysts 5-15 cm in size, aphanitic matrix, no calcite in matrix very minor white Q2-CA veinlets																				
		50																					
	20°/c	50.75	49.37- 49.40 diorite dyke at 40° to core axis																				
		52																					
			50.75	55.90	5.15	KRA2	Plag - HB Porphyry Dyke SKGA	-	-	-	-	-	W	T	-	T	W	50.75	53.32	2.57	635	2.42	94
			light to dark green in colour with bands of pinkish-red garnet rich areas															53.32	55.90	2.58	636	2.58	100
	45°/10°	54																					
			55.90	56.39	0.49	FALT	Fault Zone	-	-	-	-	-	-	-	-	-	-	55.90	56.39	0.49	637	0.49	100
			Dark brown to black very fine grained sandy drillers lost all recovery and through everything at it but could not get any recovery - some pebbles of skarnified porphyry at end of interval but drilling was																				
		56	"dry" and bit use was excessive, continuation of hole would have been expensive due to excessive bit use.																				

EOH 56.39

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-10 **Zone:** Zone A

Northing: 6,870,972.4	Easting: 516,496.2	Elevation: 1410.0	Depth	Collar	EOH			
Drilling Dates: June 26-27/04	Logged By: T.C. Becker	Length: 61.57m	Dip	-50	-50			
Core Diameter: BTW	Casing Depth: 6.10m	Casing: In / Out	Azimuth	203°	no.			

Visual Log: Visual	Visual Log: Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	AS	CP	LI	CS	Alteration: GA	EP	MG	KF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			0.00	4.57	4.57	OVBR	Overburden											0.00	4.57	4.57	M012582	1.04	23
							- drillers report coring started at 4.57m but from ~3.80m it appears that bedrock was recovered																
							- rock is strongly weathered, limonite coated, porphyry, no apparent mineralization although drillers report black return																
		2	4.57	6.89	2.32	KRA2	Plag ± HB Porphyry	-	-	-	S	-	T	T	-	T	W	4.57	6.89	2.32	583	2.05	88
							- moderately to strongly weathered, limonite along all fractures and seeping into the rock near fractures, no visible sulphides																
	30°						- plagioclase ± hornblende porphyry dyke																
		4	6.89	10.90	4.01	KRA2	Plag ± HB Porphyry	-	-	-	T	-	T	T	-	T	W	6.89	8.89	2.00	584	1.79	90
	40°	4.57	trace to weakly skarnified, plagioclase - hornblende porphyry, 10-15%															8.89	10.90	2.01	585	1.93	96
	45°		phenocrysts, <2 mm in size, moderately veined by avg 1mm, max 3mm white QZ-CA veinlets																				
		6	- all contacts gradational																				
		6.89																					
		8																					
		10																					
			10.90	17.76	6.86	KRA2	Plag - HB Porphyry	SKGA	T	-	-	-	-	W	T	-	W	W	10.90	13.19	2.29	586	2.12	93
	50°	10.90	weak to moderately skarnified porphyry dyke, grades from dark green															13.19	15.48	2.29	587	2.29	100
			to pinkish-red, weak to moderate calcite disseminated in rock															15.48	17.76	2.28	588	2.05	90
	40°		common white QZ-CA veinlets in areas of weak skarnification less																				
		12	common in areas of stronger skarn minerals																				
	45°		- calcite most common as disseminations in areas of stronger skarnification.																				
	47°		- all phenocrysts <2mm in size																				
		14																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-10 **Zone:** Zone A

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							- skarn minerals increase towards lower contact																
		16																					
			17.76	19.10	1.34	KROR	Diorite	-	-	-	-	-	T	-	-	-	T	1776	19.10	1.34	MX2589	1.26	94
		17.76	salt and pepper color, medium grained, sharp upper contact, lower contact with fragments of skarnified porphyry and difficult to define, ~11 white QZ-CA veinlets in interval each 1-4 mm wide some with garnet in																				
		18	area of vein, trace CA in matrix of rock,																				
+ +			19.10	23.36	4.26	KRA2	Plag - HB Porphyry Dyke	SKGA	T	-	-	-	W	T		T	W	19.10	21.23	2.13	590	1.85	87
+ +		18.90	weakly skarnified rock increasing to moderate and then strong at															21.23	23.36	2.13	591	2.09	98
	35°/c		lower contact. common <1-3mm white QZ-CA veinlets in area of																				
	35°	20	weak to moderate skarnification but absent from last 15cm of																				
	30°		interval which is strongly skarnified, the last 15 cm also has																				
			trace pyrite along narrow veinlets in skarn at 30-35° to core																				
			axis, lower contact is gradational																				
		22																					
			23.36	26.41	3.05	SKRN	Sulphide skarn	SKPO	S	S	M	-	-	S	M	M	M	P	23.36	24.88	1.52	592	1.52	100
			- very strong skarnification with semi-massive to local areas of															24.88	26.41	1.53	593	1.53	100
	35°	23.36	massive sulphides intergrown with magnetite and skarn minerals,																				
		24	PO = GA = CP = PY = MG = MF > EP sulphides occur as blebs of																				
			seperate minerals to fine disseminations, no white QZ-CA																				
			veinlets, two 1mm quartz sulphide veinlets, weak CA in matrix																				
			PO is the dominant mineral in parts of skarn																				
		26																					
			26.41	27.66	1.25	SKRN	Mixed skarn with sulphides	M	W	W	-	-	M	M	W	M	P	26.41	27.66	1.25	594	1.23	98
		26.41	less sulphides than above and more pale tan colored carbonate																				
			tan carbonate > PY = EP = MF = QZ > GA > MG > CP, actinolite crystals																				
	20°/	27.66	present, no calcite in matrix																				
		28																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-10 **Zone:** Zone A

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	SP	LI	CS	Alteration: CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
		29.24	27.66	29.24	1.58	KRA2	Plag - HB Porphyry SKEP	-	-	-	-	-	W	M	-	T	M	27.66	29.24	1.58	M012595	1.58	100
			- light greenish tan colour, bleached, moderately skarnified porphyry, trace to weak CA in matrix, weak white QZ-CA veinlets, gradational contacts, moderate to strong EP as small patches, EP>CA>MF																					
		30																						
			29.24	36.16	6.92	KRA2	Plag - HB Porphyry	-	-	-	-	-	W	T	-	T	W	29.24	31.55	2.31	596	2.12	92
			weakly skarnified to short intervals of moderate skarnification, pale to															31.55	33.86	2.31	597	2.18	94
			dark green in color, moderate to strong white QZ-CB veinlets,															33.86	36.16	2.30	598	2.27	99
	35°		1 to 4 mm wide, skarnification becomes less toward lower contact																				
		32	phenocrysts are visible in interval, usually < 2mm but some																				
			upto 4mm in size																				
	60°																						
		34																					
	25°																						
		36																					
	50°		36.16	37.07	0.91	KRA2	Sheared Porphyry	-	-	-	M	-	T	T	-	T	T	36.16	37.07	0.91	599	0.91	100
	35°		stronger weathering, limonite and shear structures, common hairline																				
		37.07	fractures all at 35° to core axis, most with white quartz															Blank			600		
	45°		all with limonite along fractures, centered on a 10cm interval																				
		38	near 35.45m															Y4	sample		M012010		
		40																					
			37.09	44.86	7.77	KRA2	Plag - HB Porphyry	-	-	-	T	-	T	T	-	T	T	37.09	39.68	2.59	601	2.52	97
			dark green, trace to narrow intervals of weak skarnification															39.68	42.27	2.59	602	2.49	96
			white QZ-CB veinlets are common but more near upper contact,															42.27	44.86	2.59	603	2.52	97
			lower contact sharp, phenocrysts a <2mm with variation between <4%																				
		42	to over 10%																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-10 **Zone:** Page 4 of 5

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	Sulphides SP	Sulphides CP	Sulphides LI	Sulphides CS	Alteration KA	Alteration FP	Alteration MG	Alteration MF	Alteration SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
		44																					
			44.86	52.29	7.43	DFMS	Siliceous mudstone	-	-	-	-	-	W	T	-	T	W	44.86	47.34	2.48	M012604	2.41	97
	45°	4486	light tan, light green to pinkish-red in color, weakly stainified															47.34	49.82	2.48	605	2.49	100
	/B		sediments with common <1mm white to tan Qz-CA veinlets, usually															49.82	52.29	2.47	606	2.44	99
		46	irregular and discontinuous. - Sedimentary layering at ~1cm bands,																				
			at ~45° to core axis, sedimentary minerals and features are																				
			over printed by metamorphism and stainification																				
		48																					
	45°		51.80 m a 1-2cm white Qz vein almost // to core axis with good																				
	/B		symmetrical mineral zonation.																				
	10°	50																					
		52																					
	45°	5229	52.29	53.46	1.17	KRA2	Plag ± HB porphyry	-	-	-	-	-	-	-	-	-	-	52.29	53.46	1.17	607	1.11	94
			dark green, phenocrysts <2mm in size, contacts sharp but																				
	43°	5346	variable at lower contact and 45° at upper contact																				
	/B	54																					
			53.46	57.05	3.59	DFMS	Siliceous mudstone	-	-	-	-	-	W	T	-	T	W	53.46	57.05	3.59	608	3.45	96
			- similar to above interval																				
	42°																						
	/B	56																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-10 **Zone:** Page 5 of 5

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration SA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	45°		57.05	58.30	1.25	KRA2	Plag ± HB Porphyry dark green, common <2mm plag + HB phenocrysts	-	-	-	-	-	-	-	-	-	-	57.05	58.30	1.25	M12609	1.25	100
	10°	57.05																					
		58																					
		58.30	58.30	61.57	3.27	DFMS	Siliceous Mudstone - similar to above intervals except sedimentary layering appears to range from 1 to 10cm, some areas of bleaching and light tan carbonates near areas of fracturing	-	-	-	-	-	W	T	-	T	T	58.30	61.57	3.27	610	325	99
	30°																						
	45°	60																					
	45° B																						
EOH	61.57																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-09 **Zone:** Zone A Page 1 of 7

Northing: 6,870,940.8 Easting: 516,510.5 Elevation: 1424.5
Drilling Dates: June 24-25/04 Logged By: T.C. Becker Length: 95.71
Core Diameter: BTW Casing Depth: Casing: In / Out

	Depth	Collar	8687
	Dip	-50°	-47°
	Azimuth	063	n.a

Visual Log: Visual | Struc. | (m)

From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
0.00	2.13	2.13	OVBR	Overburden	-	-	-	-	-	-	-	-	-	-						
				- no recovery																
2.13	3.17	1.04	FALT	Fault and Basalt	-	-	-	-	-	-	-	-	-	-	2.13	3.17	1.04	M012535	0.58	56
				- poor recovery, drillers start coring at 2.13m and report a "fault"																
				- fragments recovered are basalt and <3cm in size, avg <0.5 cm																
3.17	4.57	1.40	KRDR	Diorite	-	-	-	T	-	-	T	-	-	-	3.17	4.57	1.40	536	1.37	98
				- salt and pepper appearance, weak surface weathering with some feldspars → soft greenish clays, common white QZ-CB veinlets																
				- lower contact at ~30° to core axis																
4.57	6.49	1.92	CHLS	Skarnified Limestone SKGA	T	-	-	T	-	W	T	T	W	M	4.57	6.49	1.92	537	1.92	100
				- light greenish-grey to slightly pinkish-red, very common 1-2mm white QZ-CA veinlets, moderate to strong skarn minerals pervassive throughout the unit., weak calcite disseminated in matrix																
6.49	7.48	0.99	SKMG	Magnetite skarn SKPY	W	W	T	T	-	T	T	S	T	P	6.49	7.48	0.99	538	0.95	96
				- massive magnetite skarn with disseminated to patches of pyrite and pyrrhotite and minor to trace disseminated CP. - gradational contacts, some skarn minerals near contacts																
7.48	8.60	1.12	CHLS	Skarnified Limestone SKGA	T	-	-	T	-	W	T	T	W	M	7.48	8.60	1.12	539	1.12	100
				- similar to 4.57 to 6.49 m, common greenish grey quartz veinlets less common white QZ-CB veinlets, trace disseminated sulphides and MG or along some veinlets																
8.60	10.87	2.27	KRAJ	Plag ± HB Porphyry Dyke	T	-	-	T	-	T	W	-	T	W	8.60	10.87	2.27	540	2.06	91
				dark greenish black aphanitic groundmass with ~10%, <2mm phenocrysts that are altered from plagioclase? to hard secondary minerals, only minor discontinuous white QZ-CA veinlets and minor greenish veinlets with sulphides and narrow alteration envelopes - stronger rubble SK toward LC																

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-09 **Zone:**

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: GA	EP	MG	MF	SK
		14.24	10.87	13.82	2.95	CHLS	Magnetite-Garnet Skarnified Limestone	T	T	-	T	-	M	W	M	W	S
			- mixed unit Y3 magnetite, Y2 limestone, Y3 skarn minerals, each occurs as isolated patches or disseminations, strong reaction with HCl, very minor narrow, discontinuous white QZ-CB veinlets, both contacts sharp. MG > Limestone > garnet > MF > EP														
	30°/	16	13.82	14.24	0.42	KRA3	Plag ± HB Porphyry Dyke	-	-	-	-	-	-	-	-	-	-
			light green aphanitic matrix with ~10% < 2mm in size plag > HB phenocrysts, minor < 1mm tan-white QZ-CB veinlets, trace CA in matrix, lower contact with 8cm of soft clay altered porphyry, fresh dyke with no sulphides or skarn minerals														
	45°/	18	14.24	23.08	8.84	KRA2	Plag ± HB Porphyry Dyke	T	T	-	T	-	W	W	T	W	W
			- light greenish grey, skarnified porphyry 90% of interval, 10% of interval appears to be blocks of strongly skarnified limestone														
	30°/	20	- very common white QZ-CA veinlets, usually < 1mm wide irregular and discontinuous, most with +/- 15mm alteration envelopes														
			- phenocrysts are still visible in the porphyry but are usually altered, skarn minerals are irregular with areas of strong GA grading into lesser areas of stronger EP, generally GA > EP > MF >> MG + sulphides														
	55°/	22	23.08	26.18	3.10	KRDR	Diorite	-	-	-	-	-	T	W	-	T	W
			- fine grained, greenish black, ~1-3% phenocrysts to 3mm in size, usually plagioclase, slightly salt + pepper look, could this be a coarser grained phase of the porphyry? 24.45-24.56 KRA2 porphyry dyke at 50° to Core axis, sharp contacts, distinct change in matrix type														
	30°/	23.08															
		24															
	50°/c		common QZ-CB veinlets, upto 1cm in size, avg 1-2mm, very irregular, pinch and swell over a few cm of core														
		26															
			26.18	28.23	2.05	KRA2	Plag ± HB Porphyry Dyke	T	-	-	-	-	M	W	T	W	M
			grades from weak to strongly skarnified porphyry, 27.80-27.85 breccia zone with angular fragments in a matrix of QZ-CB 10cm alteration envelopes on either side, interval is strongly veined by 1mm white QZ-CB veinlets some with garnet or alteration envelopes														
		28															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
10.87	13.82	2.95	M012541	2.85	97
↑ Y4 blank	sample		M012007 542		
13.82	14.24	0.42	543	0.41	98
14.24	15.24	1.00	544	1.00	100
15.24	17.85	2.61	545	2.53	97
17.85	20.46	2.61	546	2.55	98
20.46	23.08	2.62	547	2.58	98
23.08	26.18	3.10	548	2.98	96
26.18	28.23	2.05	549	2.02	99

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-09 **Zone:** Page 3 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CC	Alteration GA	EP	MG	MF	SK
	45°	28.23	28.23	30.00	1.77	SKGA	Garnet Skarn	W	W	T	T	-	S	W	W	W	P
	60°		strong garnet skarn, original rock type not visible both contacts														
	40°		are gradational into less skarnified porphyry dykes, this interval														
			is light tan to pinkish-red with weak to moderate disseminated														
		30	sulphides mainly pyrite with lesser pyrrhotite and chalcopyrite														
			very minor to no white QZ-CB veinlets, minor greyish veinlets														
	35°		<1mm wide														
		32															
	35°		30.00	44.10	14.10	KRA3	Plag-HB Porphyry Dyke SKGA	T	T	-	T	-	W	W	T	W	M
			mixed interval Y3 weakly skarnified porphyry dyke, Y3 moderate to strongly														
	40°		skarnified porphyry dyke, Y3 strongly skarnified rock with original rock														
			type destroyed (possibly limestone fragments, possibly skarnified porphyry)														
		34	- sulphides present in areas of stronger skarnification as fine disseminations														
			white QZ-CB veinlets as <1mm discontinuous fracture fillings are														
	40°		very common in areas of weaker skarnification but are less														
			common in areas of stronger skarnification														
		36															
		38															
			- toward lower contact skarnification increases as does limonite along														
			fractures														
		40															
			44.10	44.60	0.50	FALT	Fault Zone	T	T	-	M	-					
			- interval of stronger weathering, bleaching and numerous vugs and pits														
			- rocks appear to be broken, brecciated and cemented by a calcite														
			matrix - gradational contacts														
		42															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
28.23	30.00	1.77	M012550	1.70	96
30.00	32.82	2.82	551	2.82	100
32.82	35.64	2.82	552	2.82	100
35.64	38.46	2.82	553	2.67	95
38.46	41.28	2.82	554	2.71	96
41.28	44.10	2.82	555	2.82	100
44.10	44.60	0.50	556	0.50	100

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-9 **Zone:** Page 4 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LL	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	30°/	44	44.60	46.89	2.29	KRA2	Plag ± HB Porphyry Dyke - bleached and tan colored rock, brecciated and broken, common to very common actinolite in some areas - long fibrous crystals, phenocrysts of plagioclase common, usually altered, common white QZ-CB veinlets except in areas of stronger skarnification	-	-	-	W	-	T	-	-	W	W	44.60	46.89	2.29	M012557	2.12	93
	35°/	46	46.89	48.55	1.66	KRA3	Plag ± HB Porphyry Dyke very dark green to black, slightly porphyritic, trace skarnification, very common white QZ-CB veinlets and fracture filling, locally brittle deformation	-	-	-	-	-	-	-	-	-	T	46.89	48.55	1.66	558	1.48	89
	30°/	48	48.55	51.71	3.16	KRDR	Diorite - lower contact at 40° to core axis, marked by a 10cm zone of sheared and partially broken rock	-	-	-	-	-	-	-	T	T	T	48.55	51.71	3.16	559	3.05	97
+ +	30°/	50	51.71	53.56	1.85	SKPY	Pyrite Skarn SKPO Semi-massive to massive sulphide skarn, original rock type obscured, trace magnetite, mafic minerals are hosts matrix for disseminated to blebs of sulphides <2cm in size, contacts gradational into less sulphides at 53.56, no white QZ-CA veinlets, very minor <1mm discontinuous veinlets of tan colored carbonates sometimes with sulphides, only trace calcite in rock	M	M	W	-	-	T	T	T	M	P	51.71	53.56	1.85	560	1.85	100
	35°/	54	53.56	54.96	1.40	SKMF	Mafic mineral skarn SKPY very dark green to black with 5-10% white CA-QZ patches up to 1cm in size, common CA in matrix and very common in some patches sulphides as dissemination in rock or in CA patches, very minor white QZ-CB veinlets	M	W	T	-	-	T	-	M	S	P	53.56	54.96	1.40	561	1.40	100
	40°/																						
	30°/	56																	Blank		562		

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-9 **Zone:** Page 5 of 7

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	45°		54.96	57.63	2.67	KRA1	Plag - HB Porphyry Dyke	-	-	-	-	-	T	-	-	W	W	54.96	57.63	2.67	MQ12563	2.60	97
			dark green except in two 10-15 cm wide bands of stronger alteration																				
		57.63	envelopeds developed near 1-2cm quartz veinlets where the rock is a light green color, 15-20% phenocrysts ranging from 5-20 mm																				
		58	in size, weakly skarnified interval																				
			57.63	59.44	1.81	KRA2	Brecciated + Altered Porphyry SKGA	-	-	-	-	-	W	T	-	W	W	57.63	59.44	1.81	564	1.81	100
			- this interval is centered on a 10cm zone of <1-4cm angular breccia															↑ Y2	sample		MQ12563		
		59.44	fragments in a matrix of tan quartz-carbonate at 58.30m wall rock																				
	35°		on either side is strongly leached with narrow tan Q2-CB vein and																				
		60	fracture fillings, gradationally the rock becomes less altered																				
	40°																						
	35°		and bleached toward each contact, towards contacts there are																				
			more <2-4 mm white Q2-CA veinlets and skarn minerals (CA+EP)																				
	50°		* This breccia zone appears to be later than the white Q2-CB veinlets																				
		62	since the tan colored ones cut the white but not the reverse																				
			59.44	63.40	3.96	KRA2	Plag - HB Porphyry Dyke SKGA	T	-	-	-	-	W	T	-	W	W	59.44	61.42	1.98	565	1.98	100
			- medium green with pinkish-red color in garnet rich area, weak to mod															61.42	63.40	1.98	566	1.98	100
		63.40	skarnified porphyry, gradational contacts and gradational within																				
			skarn minerals most common near quartz veinlets																				
		64																					
			63.40	66.70	3.30	SKGA	Garnet Skarn	W	W	W	-	-	S	W	T	U	P	63.40	65.05	1.65	567	1.65	100
			pinkish-red in color, strongly skarnified rock, original rock type															65.05	66.70	1.65	568	1.65	100
			obscured, both contacts gradational, no calcite in areas of strong																				
			skarn minerals, no white Q2-CB veinlets in area of strong																				
		66	skarn minerals, fairly common disseminated to patches of																				
	35°	66.70	sulphides, narrow areas of broken/brecciated rock																				
	/50°		- lower contact marked by skarn fragments within the porphyry																				
			dyke																				
		68																					
			66.70	67.96	1.26	KRA-2	Plag - HB Porphyry Dyke	T	T	T	-	-	T	-	-	T	T	66.70	67.96	1.26	569	1.26	100
			dark green, 10-15% phenocrysts <2mm in size, fresh to weakly																				
			altered, most phenocrysts with strong calcite 67.00 - 67.20m																				
			quartz vein and strongly altered wall rock, some sulphides dis																				
		70	and along <2mm veinlets																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-9 **Zone:** Page 6 of 7

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	KP	LI	CS	Alteration: GA	EP	MG	MF	QZ	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			67.96	73.52	5.56	SKGA	Garnet Skarn SKEP	W	T	T	-	-	S	M	T	M	P	67.92	70.70	2.78	M012570	2.72	98
			similar to 63.40 to 66.70 m, strong skarn GA > MF > EP >> MG = Sulphides															70.70	73.52	2.78	571	2.78	100
			- some garnets up to 1cm in size, original texture of rock completely																				
			destroyed, strong CA disseminated in rock, very minor white																				
		72	QZ-CA veinlets, some actinolite crystals, common epidote																				
	35°/c	73.52	- upper contact marked by fragments of skarn in porphyry and porphyry																				
			intruding into the skarn																				
			* immediately after drilling sky blue to purplish, soft, mineral visible along																				
		74	most fractures, easy to rub off and "dissolves" into blue muddy water																				
	50°/c		73.52	74.88	1.36	KRA2	Plag-HB Porphyry Dyke	-	-	-	-	-	-	-	-	-	-	73.52	74.88	1.36	572	1.32	97
		74.88	- similar to 66.70 to 67.96 but sharp contacts and no skarnification																				
			or mineralization, contacts at 35° and 50°, fairly common																				
	10°/15°		1-2 mm wide white QZ-CB veinlets																				
		76																					
			74.88	80.53	5.65	SKGA	Garnet Skarn SKEP	W	T	T	-	-	S	M	W	M	P	74.88	77.70	2.82	573	2.82	100
			- similar to above garnet skarn intervals except more MG															77.70	80.53	2.83	574	2.75	93
			- drilled almost parallel to some fractures and veinlets																				
			- some blueish "gypsum"? along most fractures																				
		78																					
			80.53	81.57	1.04	KRA2	Plag-HB Porphyry Dyke	-	-	-	-	-	-	-	-	-	-	80.53	81.57	1.04	575	1.02	98
			- fresh porphyry dyke very similar to 73.52 - 74.88m sharp																				
			contacts, lower contact is chilled with bleaching increasing over																				
			last 25 cm, minor white QZ-CA veinlets, various orientations																				
		80																					
	70°/c		81.57	93.82	12.25	SKGA	Garnet Skarn	W	T	T	-	-	S	M	W	M	P	81.57	84.63	3.06	576	3.04	99
		80.53	- similar to above garnet skarn intervals, magnetite patches															84.63	87.69	3.06	577	2.88	94
			up to 10 cm in size occur in 4 areas after 92m															87.69	90.75	3.06	578	2.94	96
		81.57																90.75	93.82	3.07	579	3.07	100
		82																					
																			Blank		580		
																		14	sample		M012009		
		84																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-9 **Zone:** Page 7 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY PO CP LI CS	Alteration GA EP MG NE CK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
		86					- strong Calcite in matrix of rock.								
	C/70°	88					89.00 - 89.92 m two 30cm porphyry dykes and breccia fragments of skarn in porphyry dyke, intrusive (irregular contacts)								
	C/50°						- one 3mm clear Qz vein crosscuts both rock types								
		90													
	40°	92	93.82	95.71	1.89	KRA3	Weakly Skarnified Plag ± HB Por.	T - - - - M T T W W		93.82	95.71	1.89	M012581	1.89	100
		93.82	weak to moderately skarnified porphyry, gradational contacts, phenocrysts visible in less skarnified areas, very minor white Qz-CB veinlets, minor dark greyish quartz veinlets, some with												
		94	sulphides and alteration envelopes												
			garnet and epidote occur along edges of alteration envelopes												
			- weak calcite in matrix of rock												
EOH	95.71														

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-08 Zone: Zone B

Northing: 6,870,940.4 Easting: 516,509.0 Elevation: 1424.4
Drilling Dates: June 23-24 Logged By: T.C. Becker Length: 54.86
Core Diameter: BTW Casing Depth: 2.13 m Casing: In / (Out)

	Collar	EOH
Depth	Collar	EOH
Dip	-50°	-50°
Azimuth	219°	na

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: KA	EP	MG	MF	CK
			0.00	2.13		OVBR	Overburden										
							- no recovery, drill pad material										
		2															
	15°/	2.13	2.13	4.68	2.55	NFVC	Basalt	-	-	-	-	-	-	-	T	-	-
							- black, fine grained, minor amygdules that have been filled by quartz										
							- minor magnetite disseminated in matrix										
							- virtually no weathering, toward lower contact is a 2 cm wide										
		4					felsic / diorite dykes										
		4.68															
		6															
	35°/		4.68	21.64	16.96	KRA3	Plag ± HB Porphyry Dyke	-	-	-	-	-	-	-	-	-	-
							- light to dark green in color, appears to be several generations of porphyry dykes, ranges from virtually no phenocrysts to areas with common <2mm plagioclase phenocrysts										
		8					- common 1-2 mm white quartz-CA veinlets some with alteration envelopes and garnet near veinlets										
	60°/						- very minor calcite in matrix										
		10															
	35°/																
		12															
	60°/																
		14															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
2.13	4.68	2.55	MA2510	2.21	87
4.68	7.17	2.49	511	2.28	92
7.17	9.68	2.51	512	2.32	92
9.68	12.67	2.99	513	2.95	99
12.67	15.66	2.99	514	2.76	92
15.66	18.65	2.99	515	2.99	100
18.65	21.64	2.99	516	2.85	95

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-08 **Zone:**

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY PN CP LI CS	Alteration GA EP MG MF SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	30° / 45° / 60° / 45° / 15°	16 18 20 21.64 22 22.59 24 25.22 25.50 26 28					- slightly more white QZ-CA veinlets near lower contact - no to very minor calcite in rock								
			21.64	22.59	0.95	SKGA	Skarn with sulphides SKPY	M W T - -	S M W M P	21.64	22.59	0.95	M012 517	0.83	87
							- gradational contacts into strong garnet skarn, original texture of rock completely destroyed, minor calcite in matrix, GA > MF > EP > MG = sulphides, pinkish-red garnet almost massive with disseminated to semi-massive sulphides, no to trace quartz veinlets, < 1mm in width and discontinuous,								
			22.59	25.22	2.63	KRA2	Plag - HB porphyry dyke SKEP	T T - T -	T W T T W	22.59	25.22	2.63	518	2.58	98
							- mixed porphyry unit grades from area of very minor phenocrysts in an aphanitic groundmass into areas of very common phenocrysts upto 4mm in size, common white QZ-CA veinlets some with fine grained sulphides, skarn minerals (EP > GA > MF > MG > sulphides) usually in areas of stronger QZ veining, some veinlets have alteration envelopes 1-10 mm wide								
			25.22	25.50	0.28	SKGA	Skarn with sulphides	M W T - -	S W W M P	25.22	25.50	0.28	519	0.28	100
							- similar to interval 21.64 - 22.59 except with less sulphides			Blank			520		
										Y4 Sample					
			25.50	32.34	6.84	CHLS	Skarnified Limestone - SKGA	T T T - -	W W T T W	25.50	27.78	2.28	521	2.18	96
							medium green to black, weakly skarnified limestone,			27.78	30.06	2.28	522	2.19	96
							of mainly plagioclase, common < 2mm wide white QZ-CB veinlets			30.06	32.34	2.28	523	2.22	97
							and fairly common grey QZ veinlets, usually with narrow alteration envelopes								

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-08 **Zone:** Page 3 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							29.00-29.15 narrow zone of strongly skarn altered limestone with ~7cm of very strong magnetite and disseminated sulphides, strong CA along veinlets but weak to moderate within the rock itself																
		30																					
			32.34	32.72	0.38	SKMG	Massive magnetite skarn - massive magnetite with disseminated sulphides, sharp contacts but appear to be an alteration front with no visible structure - very minor GA, EP, MF, no original rock, very minor <1mm discontinuous fractures, strong reaction to HCl	SKPY	M	W	W	-	-	T	T	S	W	P	32.34	32.72	0.38	MX12524	0.38	100
		32																					
	40°/c	32.34	32.72	35.05	2.33	KRAI	Plag - HB Porphyry Dyke - weak to trace skarnified porphyry with very common HB > plag, HB phenocrysts up to 2 cm long, plag phenocrysts smaller and less common, minor <1mm Q2 veinlets some with strong alteration envelopes and very minor white Q2-CA veinlets	SKGA	T	T	T	-	-	W	W	T	W	W	32.72	35.05	2.33	525	2.18	94
	30°/60°	32.72																					
		34																					
	80°/c	35.05					- both contacts marked by chilled margins * This dyke appears different than the others and maybe a later dyke that split the magnetite skarn or caused it to develop																
	90°/c	35.41																					
		36																					
			35.05	35.41	0.36	SKPO	Massive Pyrrhotite Skarn - sharp contacts, semi-massive to massive pyrrhotite with disseminated MG > PY > CP, trace to no other skarn	SKMG	S	S	M	-	-	-	-	S	-	P	35.05	35.41	0.36	526	0.36	100
		38																					
			35.41	42.93	7.52	MABL	Marble - almost pure white medium grained marble, very minor impurities, very strong reaction to HCl, hard, no weathering, no veins or joints	-	-	-	-	-	-	-	-	-	S	35.41	37.92	2.51	527	2.46	98
																		37.92	40.43	2.51	528	2.51	100
																		40.43	42.93	2.50	529	2.39	96
		40																					
		42																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-08 **Zone:** Page 4 of 4

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CG	Alteration GA	EP	MG	NF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			42.93	48.23	5.30	CHLS	Skarnified Limestone	T	T	T	-	-	M	W	T	M	G	42.93	45.58	2.65	M012530	2.59	98
		42	interval grades from weak to strongly skarnified limestone with minor															45.58	48.23	2.65	531	2.48	94
			marble intervals, strongly skarnified intervals consist of pinkish-red																				
		44	garnet with disseminated magnetite and sulphides, gradational																				
			transition into less strong skarn minerals and a light greenish colored																				
			matrix, no white QZ-CA veinlets and only minor light greenish-																				
			grey quartz veinlets with stronger skarn minerals and minor alteration																				
			envelopes.																				
		46																					
		48																					
		48.23	48.23	54.86	6.63	KRA2	Plag ± HB Porphyry Dyke SKGA	T	-	-	-	-	W	T	T	T	W	48.23	50.44	2.21	532	2.13	96
	25°		weakly skarnified porphyry dyke with minor fragments of skarnified															50.44	52.65	2.21	533	2.13	96
			limestone, minor white QZ-CA veinlets fairly common <1mm															52.65	54.86	2.21	534	2.21	100
	30°	50	grey quartz veinlets some with alteration envelopes																				
	25°																						
	40°																						
		52																					
	35°																						
		54																					
	60°																						
EOH	54.86																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-07 **Zone:** Zone B

Northing: 6,870,940.3 Easting: 514,509.6 Elevation: 1434.4
Drilling Dates: June 22-23, 2004 Logged By: T.C. Becker Length: 33.53
Core Diameter: BTW Casing Depth: 3.05m Casing: In / Out

	Depth	Collar	EOH
	Dip	-50	-49
	Azimuth	190°	n.a

From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration KA	EP	MG	NF	SK
0.00	3.05	3.05	OVBR	Overburden - no recovery, 10 feet of casing, 10 foot starter barrel										
3.05	6.10	3.05	NFVC	Basalt - dark grey to black, very fine grained to aphanitic groundmass with <1cm amygdules that have been filled with QZ + EP - moderate white QZ-CA veinlets all <1mm - minor limonite along most fractures/joints	-	-	-	T	-	-	T	T	T	T
6.10	7.70	1.60	KRA3	Plag ± HB Porphyry Dyke - light green fine grained, minor phenocrysts, common <1mm - 1mm white QZ-CB veinlets - weakly skarnified with trace garnet along narrow fractures - sharp lower contact	-	-	-	T	-	T	T	T	T	T
7.70	8.42	0.72	KRDR	Diorite - medium grained, light grey, mixture QZ-feldspars-mafics - sharp contacts	-	-	-	-	-	-	-	-	-	-
8.42	11.81	3.39	KRA3	Plag ± HB Porphyry Dyke SKGA - light green, minor phenocrysts, grades from areas of very minor to no skarn minerals to strong garnet skarn - no calcite in matrix	-	-	-	-	-	T	T	-	T	T
11.81	15.41	3.60	NFVC	Basalt - black to very dark grey, aphanitic matrix with common amygdules all altered to white QZ, magnetite common in matrix, some areas with patches of epidote - usually along narrow veinlets	-	-	-	-	-	T	T	T	T	T

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
3.05	6.10	3.05	M012495	3.03	99
6.10	7.70	1.60	496	1.54	96
7.70	8.42	0.72	497	0.58	81
8.42	11.81	3.39	498	3.15	93
11.81	15.41	3.60	499	3.58	99

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-07 **Zone:** Page 2 of 3

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	ME	SK
15.41	16.00	0.59	KRA3	MG skarn and porphyry SKMG	T	T	T	-	-	M	T	M	M	S
contact zone marked by an area of moderate to strong skarnification with a discontinuous sugary white quartz rich zone (30%) with semi-massive magnetite skarn containing sulphides, garnet and other skarn minerals (50%) and with skarnified porphyry (20%).														
- both contacts are gradational over a few cm.														
16.00	21.08	5.08	KRA2	Plag ± HB Porphyry Dyke	T	-	-	T	-	T	T	T	T	T
- light green aphanitic matrix with phenocrysts of plagioclase and hornblende, trace skarn minerals along some narrow quartz veinlets														
21.08	21.71	0.63	MABL	Marble with sulphides	T	T	-	-	-	T	-	T	-	W
- 5cm at lower contact, 13 cm at upper contact are massive to semi-massive sulphides mixed with skarn minerals, the remainder of interval is white quartz-calcite marble, strong reaction to HCl, hard, very minor black sulphides along <1mm wide fractures														
21.71	27.52	5.81	KRA2	Plag ± HB Porphyry Dyke	-	-	-	-	-	T	T	-	T	T
- light greenish grey matrix, aphanitic with <2mm plagioclase phenocrysts and less common mafic phenocrysts. Mainly fresh with minor local zones of stronger skarnification characterized by epidote and garnet mineralization														
- common CA disseminated in matrix														

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
15.41	16.00	0.59	M012500	0.55	93
16.00	18.54	2.54	501	2.48	98
18.54	21.08	2.54	502	2.28	90
21.08	21.71	0.63	503	0.63	100
Blank			504		
21.71	24.61	2.90	505	2.70	93
24.61	27.52	2.91	506	2.73	94
↑ 1/4	Sample		M012005		

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-07 **Zone:** Page 3 of 3

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	Sulphides: PO	Sulphides: CP	Sulphides: LI	Sulphides: CS	Alteration: GA	Alteration: EP	Alteration: MG	Alteration: MF	Alteration: SK
	40° C	28.13	27.52	28.13	0.61	KRA2	Sulphide + skarnified porphyry SKMG - moderately to strongly skarnified porphyry with bands of semi-massive sulphides, mainly PY + MG with weak to trace PO + CP - gradational contacts into lesser skarnification and sulphides	W	T	T	–	–	W	W	M	W	M
	25°	30															
	35°																
	50°	32	28.13	33.53	5.40	KRA3	Plag ± HB Porphyry SKGA - light green, aphanitic matrix with mostly plagioclase phenocrysts and less common HB, common calcite in matrix, trace to weak garnet disseminated and near narrow veinlets	–	–	–	–	–	W	T	–	T	W
EOH	33.53						29.23 - 29.74 KRA2 - more and coarser grained phenocrysts of both plag + HB, common calcite in matrix										

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
27.52	28.13	0.61	M012507	0.57	93
28.13	30.83	2.70	508	2.68	99
30.83	33.53	2.70	509	2.45	91

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-06 **Zone:** Zone A

Northing: 6,870,941.9 Easting: 516,510.4 Elevation: 1424.5
Drilling Dates: June 21-22, 2004 Logged By: T.C. Becker Length: 91.44
Core Diameter: BTW Casing Depth: Casing: In (Out)

	Depth	Collar	EOH			
	Dip	-50°	-52.5°			
	Azimuth	034°	n.a.			

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	Sulphides: AS	Sulphides: CP	Sulphides: LI	Sulphides: CS	Alteration: GA	Alteration: EP	Alteration: MG	Alteration: MT	Alteration: SK
			0.00	2.13	2.13	OVBR	Overburden										
			2.13	3.05	0.92	KRDR	Diorite	-	-	-	-	-	-	-	-	-	-
			- weakly weathered fine grained, salt and pepper appearance														
		2															
		2.13	3.05	6.75	3.70	KRA3	Plag ± HB Porphyry Dyke	-	-	-	-	-	T	T	-	-	T
			- <2mm in size plagioclase and occational hornblende phenocrysts in														
	30°/50°	3.05	a dark green matrix, very common 1-4mm wide white QZ ± CA														
			veinlets, increasing veinlets toward lower contact														
		4	- fresh rock, no weathering														
	10°		6.75	8.51	1.76	KRA3	Plag ± HB Porphyry Dyke SKEP	T	T	T	T	-	T	W	-	-	W
			- same as above except with increased veinlets and skarnification														
			toward lower contact, both contacts gradational														
			- rock fresh, limonite only along fractures / joints														
		6															
			8.51	11.94	3.43	KRA3	Plag ± HB Porphyry Dyke SKMA	T	T	T	W	-	T	W	W	T	M
		6.75	- moderately skarnified plagioclase porphyry, none to very minor QZ-CB														
			veinlets, MG > EP > MF > GA >> sulphides, MG + EP occur as fine disseminations														
			or patches of higher concentrations, some pinkish-red garnet														
		8	- limonite common along fractures but rock is unweathered														
		8.51	- trace very fine grained disseminated sulphides														
			- lower contact is gradational with less intense skarnification														
	45°/35°		and increased QZ ± CA veinlets														
		10	- within unit <1mm white QZ-CA veinlets are uncommon														
			- skarnification varies with some small areas where porphyry textures														
			are still visible but most of the unit is so skarnified that textures														
			are not visible and skarn minerals are prevassive														
	10°/45°/60°	11.94															
		12	11.94	16.83	4.89	KRA3	Plag ± HB Porphyry Dyke	-	-	-	T	-	T	T	-	-	W
			- weakly skarnified plagioclase-hornblende porphyry, common white QZ-CA														
			veinlets to very common near contacts, limonite along all														
			fractures and joints but not in rock, skarn grades from														
		14	small local patches of moderate skarn minerals to areas of														

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
0.00	2.13	2.13	-	0	0
2.13	3.05	0.92	M012447	0.76	83
3.05	4.90	1.85	448	1.72	93
4.90	6.75	1.85	449	1.76	95
6.75	8.51	1.76	450	1.58	89
8.51	9.65	1.14	451	1.14	100
9.65	10.79	1.14	452	0.89	78
10.79	11.94	1.15	453	1.04	90
11.94	14.38	2.44	454	2.33	95
14.38	16.83	2.45	455	2.24	91

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-06 **Zone:** Page 2 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	CL	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							weak skarn mineralization																
		16																					
	30° / 50° / 60°		16.83	20.45	3.62	KAA2	Plag ± HB porphyry dyke SKGA	T	T	T	T	-	W	W	W	W	W	16.83	18.64	1.81	M012456	1.72	95
		16.83	- weak to moderate skarnified porphyry dyke, common to very common 1mm															18.64	20.45	1.81	457	1.79	99
			white QZ±CA veinlets usually with Li along fractures and garnet																				
			envelopes 1-10mm into the rock, original porphyry texture usually																				
		18	overprinted by skarn minerals																				
			- local areas of common MF with MG and trace disseminated sulphides																				
		20																					
		20.45	20.45	22.86	2.41	KRA2	Plag ± HB Porphyry Dyke	-	-	-	-	-	W	T	-	-	T	20.45	22.86	2.41	458	2.31	96
			very weak to trace skarnified porphyry, common < 1mm white QZ-CA																				
			veinlets, phenocrysts easily visible																				
			- 21.00 - 21.21 m moderate to strong skarnification with trace sulphides																				
		22	and common GA > MF > EP																				
	30° / 60°	22.86	22.86	24.38	1.52	SKMG	Magnetite Skarn SkMA	T	T	T	-	-	M	W	M	M	P	22.86	24.38	1.52	459	1.47	97
			moderate to strongly skarnified porphyry?, original texture completely																				
			obscured by skarn minerals GA > MG > EP > MF >> sulphides																				
			minor quartz veinlets up to 3-5mm wide some with sulphides,																				
		24	common disseminated calcite except in areas of strong QZ flooding																				
		24.38	near QZ veinlets both contacts gradational																				
			- most of the sulphides are in QZ veinlets or as fine disseminations																				
		26																					
			24.38	30.37	5.99	KRA2	Plag - HB Porphyry Dyke SKGA	T	T	T	-	-	T	T	T	T	W	24.38	25.91	1.53	460	1.42	93
			- average for the interval is weakly skarnified but ranges from															25.91	27.43	1.52	461	1.52	100
			trace to moderate skarnification, generally plag + HB phenocrysts are															27.43	28.96	1.53	462	1.43	93
			easily visible, fresh to QZ-sericite/clay altered and 1-2mm in size,															28.96	30.37	1.41	463	1.35	96
		28	- locally grades into areas of stronger skarnification																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-6 **Zone:** Page 3 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	25°/55° / ~60°						which destroys original texture, some silicification in area of more common grey quartz veinlets																
		30					29.71m - 2cm wide & 29.65m - 3cm wide QZ = PY = carbonate veins at ~60° to core axis with 1-2cm alteration envelopes on either side ± GA > MF > EP														
		30.32	30.37	31.76	1.39	SKPY	Pyrite skarn	M	W	W	-	-	V	W	W	W	P	30.37	31.76	1.39	MQ2464	1.33	96
			- original texture completely obscured by strong skarnification, PY > GA > EP > MF > MG >> PO > CP, common pyrite blebs upto 5cm in size with common															Blank			465		
		31.76	< 1mm vugs and pits, GA & EP compose most of the rock along																				
	60° /	32	with a light tan carbonate, only trace calcite, minor < 1cm																				
			patches of white quartz, CP occurs as disseminations to 1cm																				
		33.53	patches, both contacts are gradational over 1-3 cm with no																				
			visible structure, no white QZ-CA veins, very minor < 1mm																				
		34	fractures filled with QZ usually discontinuous & various orientations																				
			31.76	33.53	1.77	KRA2	Plag-HB Porphyry Dyke SKGA	T	T	T	-	-	W	W	T	W	M	31.76	33.53	1.77	466	1.63	92
			- moderately skarnified porphyry dyke, GA > EP > MF >> sulphides															↑					
	90° / c		- gradational contacts, most of original texture obscured by															Y4 sample			MQ12003		
		35.34 35.65	skarnification, 32.10 & 32.15 m are 1-2cm wide pyrite >> QZ > CP																				
		36	veins at 60° Core axis, moderate white QZ-CA veinlets																				
			33.53	35.34	1.81	KRA2	Plag-HB Porphyry Dyke	-	-	-	-	-	T	T	-	T	W	33.53	35.34	1.81	467	1.74	96
			- weakly skarnified porphyry with common 1-4mm wide																				
			white QZ-CA veinlets, weak skarn minerals, upper contact																				
			gradational, lower contact sharp at 90° to core axis																				
		38																					
			35.34	35.65	0.31	SKMG	Magnetite Skarn	T	T	T	-	-	T	T	S	T	P	3534	35.65	031	468	0.31	100
			- massive magnetite with trace GA ± EP >> sulphides from 3534 -																				
			35.55 (0.21cm) then 10cm of 3-30mm rounded rock fragments in a																				
		39.47	white QZ-CA matrix, gradational contact into less brecciated rock																				
		40																					
			35.65	39.47	3.82	KRA3	Plag ± HB Porphyry Dyke	T	T	T	-	-	T	T	T	T	T	35.65	36.58	093	469	0.87	94
			- mixed unit mostly porphyry but appears to contain fragments of															36.58	38.02	1.44	470	1.31	91
			diorite, alternatively this could be the chilled margin of a															38.02	39.47	1.45	471	1.35	93
			diorite dyke, strongest veining and skarn alteration near upper																				
		42	contact																				

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-6 **Zone:** Page 4 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK
	20° / 45° / 60°	44	39.47	47.38	7.91	KRDR	Diorite - fine to very fine grained, dark greenish grey to black, some grains are larger than others giving it a slightly porphyritic texture, is this a coarse grained porphyry? The upper contact is gradational but lower contact is sharp, with a strong contrast in matrix, no to trace sulphide, common 1-3mm wide white QZ-CA veinlets, some with narrow GA envelopes	-	-	-	-	-	T	-	-	-	-
	60° / 40° / c	46 47.38 48	47.38	47.84	0.46	KRA2	Plag - HB Porphyry Dyke - greenish-grey aphanitic matrix with 10-15% plag + HB phenocrysts up to 1.5 mm in size, most phenocrysts slightly altered	-	-	-	-	-	-	-	-	-	-
			47.84	53.34	5.50	KRDR	Diorite - grades from a fine grained to medium grained, dark greenish grey to black diorite, minor white QZ-CA veinlets 1-2 mm wide - only minor to trace CA in matrix of rock	-	-	-	-	-	-	-	-	-	-
	40°	50 52 53.34 54	53.34	56.34	3.00	KRA3	Plag ± HB Porphyry Dyke - dark green aphanitic groundmass with numerous <1mm wide QZ and white QZ-CA veinlets, some with GA alteration envelopes up to 3cm on each side but usually only 1-3 mm, calcite common in the matrix of rock	-	-	-	-	-	W	T	-	T	W
	25° / 40°	56	56.34	64.01	7.67	KRA3	Plag ± HB Porphyry Dyke SKGA weak to moderately skarnified medium green porphyry with very minor to 5% phenocrysts, ranges from local areas of strong GA to no skarn minerals, strongly veined by common 1mm to occasionally 1cm wide white QZ ± CA veinlets	-	-	-	T	-	W	T	-	T	W

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
39.47	42.11	2.64	MOL2472	2.38	90
42.11	44.75	2.64	473	2.44	92
44.75	47.38	2.63	474	2.55	97
47.38	47.84	0.46	475	0.46	100
47.84	50.59	2.75	476	2.67	97
50.59	53.34	2.75	477	2.75	100
53.34	56.34	3.00	478	3.00	100
56.34	58.90	2.56	479	2.26	88
58.90	61.46	2.56	480	2.51	98
61.46	64.01	2.55	481	2.47	97
	Blank		482		

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-6 **Zone:** Page 5 of 7

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK
		56.34															
		58															
	15°/ 25°/						60.43m - 50cm zone of strong Limonite on fractures centered on an area of broken core at 60.43m										
		60	64.01	64.98	0.97	KRDR	Diorite - fine-medium grained, light grey, salt + peper appearance, 'classic' diorite, slightly chilled toward margins, sharp contacts, no skarn minerals, very minor quartz veinlets	-	-	-	-	-	-	-	-	-	-
	30°/ 35°/	62	64.98	68.41	3.43	KRA2	Plag + HB Porphyry Dyke - medium green aphanitic matrix with <2mm plag + HB phenocrysts, common <1-2mm white QZ-CA veinlets, strong weathering with Li along all fractures and into wall rock from 66.2-67.8m, within this area the wall rock is bleached and strongly fractured, possibly	-	-	-	W	-	W	T	-	-	W
		64															
+ + + +	25°/C	64.01															
		64.98					centered on a brittle fault zone with stronger surface leaching - very minor to no calcite in rock										
		66															
			68.41	71.96	3.55	SKMG	Magnetite Skarn - massive to semi-massive magnetite, strongest from 68.41-70.10, with disseminate sulphides, pyrite patches to 3cm in size but usually as fine disseminations, very minor QZ-CA veinlets, commonly with sulphides	SKEP	W	T	T	-	-	W	W	M	T	P
		68															
	25°/ 35°/	68.41					- very common calcite in matrix, in areas of lesser MG are strong skarn minerals EP > GA > QZ > CA										
		70															

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
64.01	64.98	0.97	M012483	0.97	100
64.98	66.69	1.71	484	1.65	96
66.69	68.41	1.72	485	1.52	88
↑ Y4 sample			M012004		
68.41	70.10	1.69	486	1.61	95
70.10	71.96	1.86	487	1.82	98

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-6 **Zone:** Page 6 of 7

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From (m)	To (m)	Interval (m)	Unit	Description	Sulphides					Alteration					From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
Visual	Struc.	(m)						PY	PO	KP	LI	CS	GA	EP	MG	MF	SK						
			71.96	83.40	11.44	KRA2	Plag ± HB Porphyry Dyke	-	-	-	-	-	T	T	-	T	T	71.96	74.82	2.86	MDX2488	2.83	99
			- mostly fresh rock with narrow bands of (1-3cm) of stockwork fracturing															74.82	77.68	2.86	489	2.82	99
			with a GA core beside some fractures/veins and an outer envelope															77.68	80.54	2.86	490	2.71	95
			of EP and MF, rock locally grades from classic porphyry to															80.54	83.40	2.86	491	2.56	90
		71.96	a coarser grained variety of porphyry that almost looks like																				
		72																					
			a dark diorite																				
	35°/																						
		74																					
	50°/																						
		76																					
		78																					
		80																					
		82																					
		83.40																					
		84																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-6 **Zone:** Page 7 of 7

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log			From	To	Interval	Unit	Description	Sulphides					Alteration					From	To	Interval	Sample	Rec.	Rec.
Visual	Struc.	(m)	(m)	(m)	(m)			PY	PO	CP	LI	CS	K-A	EP	MG	MF	SK	(m)	(m)	(m)	Number	(m)	%
	30° /		83.40	91.44	8.04	KRA2	Plag - HB Porphyry Dyke SKGA	-	-	-	T	-	M	T	-	T	W	83.40	86.08	2.68	M012492	2.68	100
			- dark greenish aphanitic matrix with 1-7mm phenocrysts of Plag + HB															86.08	88.76	2.68	493	2.68	100
	35° /	86	overprinted by strong to no skarnification, CA >> EP=MF, trace Li															88.76	91.44	2.68	494	2.40	90
			along some fractures, fairly common <1mm white QZ-CA veinlets																				
	25° /																						
		88																					
	45° /																						
		90																					
91.44	EOH																						

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Zone A

Northing: 6 870 941.5 Easting: 516 510.5 Elevation: 1424.4
Drilling Dates: June 19-21, 2004 Logged By: T.C Becker Length: 91.14 m
Core Diameter: BTW Casing Depth: 3.66m Casing: In (Out)

Depth	Casing	91.14			
Dip	-51½°	-50°			
Azimuth	~085°	n.a			

Visual Log: Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MG	MF	SK
			0.00	1.00	1.00	OVBR	no recovery										
							- Drill colored very near bedrock and drilled into hill										
							- 1.00 m is an estimate of when coring started										
		2															
		2.68	1.00	2.68	1.68	OVBR	½ Basalt / ½ KRFD										
		3.20					- brand new drill and it would appear that broken rock										
							resulted in poor recovery for the first few m of hole										
							- recovered rock is a mixture of felsic dyke at top of interval										
		4					and basalt at bottom										
			2.68	3.20	0.52	FALT	Fault Zone				W						
							- soft brown and grey clay gouge with small rock fragments										
							< 3 mm in size, no sulphides, weak Li, mod-str calcite										
	25°						- less clay gouge and more rounded rock fragments toward										
	C	6					contacts										
		6.07	3.20	6.07	2.87	KRDR	Diorite							T			
							- fine grained (<1mm), salt and pepper look, equal mixture of mafics/QZ/FX										
		7.26					- mafics are fresh to weakly chloritized, most feldspars → soft green										
							clays. Strong calcite along very common <2mm wide quartz-carbonate										
	10°	8					veinlets, low angle to core axis, no sulphides										
	X																
	45°						- contact at 6.07 m is sharp and at ~25° to core axis										
							- contact at 3.20 m is sharp and at 25-35° to core axis										
		10															
	10°	10.17	6.07	7.26	1.19	NFUC	Basalt								M		W
	\						- dark green, amygdaloidal to massive basalt, amygdules filled with										
	25°						CA and CL, slightly magnetic, common <1mm wide calcite veinlets										
	\						- contact at 7.26 is gradational into stronger skarn mineralization										
		12					with strong sulphides and magnetite										
			7.26	10.17	2.91	CHLS	Limestone SKPO	M	M	T		-	M	T	W		S
							- moderately to strongly skarnified limestone, sulphides are										
							very common toward contacts while virtually absent from										
							8.5 to 9.1 m, near contacts up to 40% sulphides with magnetite										
		14					skarn minerals GA > CL > EP										

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
1.00	2.68	1.68	M012401	0.40	24
2.68	3.20	0.52	402	0.51	98
3.20	6.07	2.87	403	2.64	92
6.07	7.26	1.19	404	1.08	91
7.26	8.71	1.45	405	1.32	91
8.71	10.17	1.46	406	1.29	88

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Page 2 of 7

Northing: Easting: Elevation: Depth

Drilling Dates: Logged By: Length: Dip

Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	10°		10.17	17.27	7.10	KRA3	Plag-HB porphyry dyke SKGA	T	T	T			W	T			M	10.17	12.54	2.37	M012407	2.30	97
			-alternates between KRA3 and lesser KRA2, moderately skarnified with															12.54	14.91	2.37	408	2.19	92
	20°		common fine-med grained pinkish-red garnet, most mafic phenocrysts															14.91	17.27	2.36	409	2.32	98
			→ CL + CA ± Ep, sulphides occur as disseminated patches <4mm and less																				
		16	commonly along veinlets, very common <1-3mm wide QZ-CA veinlets																				
			some with narrow alteration envelopes 1-3mm on either side																				
		17.27	-appears to be zonation in the dyke or multiple dyke but due to																				
			skarnification and veining not possible to seperate																				
		18																					
			17.27	18.94	1.67	KRA3	Plag ± HB porphyry dyke SKPO	W	W	T			M	W	T		S	17.27	18.94	1.67	410	1.57	94
		18.94	-stronger skarnification and stronger sulphides, original rock type																				
	30°		overprinted by GA + sulphides, only minor to nil QZ-CA veinlets,																				
	C		some patches with disseminated calcite (limestone?)																				
		20																					
	45°		18.94	20.24	1.30	KRA2	Plag - HB Porphyry Dyke										-	18.94	20.24	1.30	411	0.81	62
		20.24	-appears to be a younger dyke with weak skarnification and weak																				
	30°		QZ-CA veinlets, phenocrysts are only weakly altered, trace QZ eyes																				
			<1.5 mm plagioclase and mafic phenocrysts in a med-dark green																				
		22	ground mass, no skarn minerals																				
			20.24	27.43	7.19	KRA3	Plag ± HB Porphyry Dyke SKGA	T	T				W	T			W	20.24	22.64	2.40	412	2.40	100
	60°		alternates between areas of weak to moderate skarn mineralization															22.64	25.04	2.40	413	1.99	83
			-alteration appears to be strongest in areas of QZ-CA veinlets															25.04	27.43	2.39	414	2.17	91
			-21.25m is a 3cm vein with no sulphides. Some veinlets have strong																				
		24	garnet zones 1-4mm on either side. GA > CL > EP > sulphides																				
			27.43	29.42	1.99	KRA2	Plag - HB Porphyry Dyke										-	27.43	29.42	1.99	415	1.74	87
			-similar to unit above (18.94 - 20.24m) except the ground mass																				
			is a very dark green, contacts are gradational and appear to be																				
		26	intrusive / alteration, less QZ-CA veinlets and very minor to nil																				
			skarn minerals																				
			29.42	33.92	4.50	KRA3	Plag ± HB Porphyry Dyke SkGA	T	T	T			M	W			M	29.42	31.67	2.25	416	2.25	100
			-moderately skarnified porphyry dyke, common pinkish-red garnet															31.67	33.92	2.25	417	2.15	96
		27.43	either disseminated in rock or near veinlets																				
		28																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Page 3 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	PO	CP	LI	CS	Alteration: CA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
			33.92	46.53	12.61	KRA3	Plag-Porphyry dyke SKGA	T	T		-	-	W	T			W	33.92	37.07	3.15	M012418	3.05	97
							-weakly skarnified plagioclase-hornblende porphyry dyke, with GA>CL>EP											37.07	40.22	3.15	419	2.98	95
		29.42					Z sulphides, some fractures have Li coating, moderately veined with											40.22	43.37	3.15	420	2.58	82
							Quartz-calcite veinlets usually 1mm, most of the interval is											43.37	46.53	3.16	421	2.84	90
		30					composed of <2mm plagioclase phenocrysts in a dark green matrix																
	10°																		Blank		422		
							with local area of plagioclase and hornblende phenocrysts, usually																
							the plagioclase is altered to soft greenish clays and the																
		32					hornblende to dark green chlorite																
		33.92																					
		34																					
	25°																						
		36																					
	45°																						
		38																					
							39.18-39.43 m Plagioclase-hornblende porphyry dyke, not skarnified,																
							no skarn minerals or sulphides																
		40																					
							-skarn minerals increase in abundance toward the lower contact																
							as does Limonite along fractures, some veinlets with sulphides																
							near lower contact																
		42																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:**

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
	20°	44	46.53	48.04	1.51	SKMG	Magnetite Skarn SKMA - original rock type completely obscured by massive to disseminated magnetite, disseminated pyrite to coarse blebs up to 2cm in size, trace to weak pyrrhotite as disseminations and trace disseminated CP, weak calcite disseminated in groundmass, no QZ-CA veinlets	W	T	T	-	-	-	-	S	T	P	46.53	48.04	1.51	MQ12423 MQ12001 (¼ sample)	1.27	84
		46																					
		46.53					contact at 46.53m is gradational over 3cm from bleached skarnified porphyry to magnetite skarn, lower contact gradational into lower magnetite content																	
		48																					
		48.04	48.04	50.18	2.14	SKMG	Magnetite Skarn SKMA - similar to above interval except with less magnetite and sulphides, original rock type still obscured, only minor garnet in areas of magnetite, 49.0 - 49.75m only trace Mg in a GA > MF > CA rich	T	T	T	-	-	T	T	M	?	P	4804	50.18	2.14	424	2.14	100
		50																					
		50.18	50.18	54.50	4.32	KRA3	Plag Porphyry Dyke SK EP weakly skarnified plagioclase porphyry dyke, possibly small zones of limestone but difficult to tell, most of the interval is <1mm plagioclase and trace Qz eyes in a dark green matrix, minor <1mm				-	-	T	T			W	5018	52.34	2.16	425	2.09	97
		52																52.34	54.50	2.16	426	2.14	99
	45° 50°						hornblende phenocrysts, very common white QZ-CA veinlets, usually <2mm wide, garnet and epidote are equal to more epidote, both occur as fine grained disseminations - more QZ-CA veinlets near contact at 54.50m																	
		54																					
		54.50	54.50	56.39	1.89	FALT	Breccia / Fault zone SKEP - sharp contacts into an interval of very light green to tan "bleached" breccia, breccia fragments are semi-angular, <1mm - 3cm in size and composed of GA-EP skarnified porphyry, the GA-EP are altered to a bleached appearance, the matrix is light tan, fine		T		-	-	T	T	-	-	W	54.50	56.39	1.89	427	1.83	97
		56																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Page 5 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	KP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
		56.39																					
							grained, quartz rich material with no calcite, minor disseminate sulphides locally the matrix becomes a pale to light green possibly with very fine grained sulphides															
		58																					
	30°/c		56.39	58.88	2.49	CHLS	Limestone						SKGA	T				W	T			S	56.39	58.88	2.49	M012428	2.46	99
		58.88	- mod-strong skarnified limestone, GA > EP > MF >> sulphides, garnet is strongest near veinlets and fractures, makes up ~60% of rock as nearly massive patches with epidote along/near some fractures																					
		60	as 1-2mm blebs, some sulphides along veinlets																					
		60.04																					
			- strong pervassive calcite, less Q2-CA veinlets than in porphyry intervals and more plain Q2 veinlets, skarn mineralization obscures rock texture but due to high CA and lack of phenocrysts it would																					
		62	appear to be a limestone																					
			58.88	60.04	1.16	KRDR	Diorite																58.88	60.04	1.16	429	1.16	100
			chilled margin of a diorite dyke, grades from an aphanitic medium green rock at the 30° angle to core axis contact at 58.88 to a gradational contact into fine grained diorite at 60.04 white																					
		64	Q2-CA fracture filing and veining is common																					
	20°/45°	64.01	60.04	64.01	3.97	KRDR	Diorite																60.04	62.03	1.99	430	1.80	90
			- fine grained, salt and pepper appearance, no skarn minerals and only trace to nil sulphides. white Q2-CA veinlets and fracture filling is common, mod. CA in rock,																				62.03	64.01	1.98	431	1.94	98
		66																						
		65.97	64.01	65.97	1.96	KRDR	Diorite																64.01	65.97	1.96	432	1.96	100
			chilled margin of diorite dyke, gradational contact at 64.01, increasing veinlets, fractures and narrow porphyry dykes toward 65.97m some skarnification (GA, EP, MF) toward 65.97m																					
		68																						
			65.97	72.07	6.10	KRAI	Plag - HB porphyry dyke	SKGA										T	T			W	65.97	69.02	3.05	433	3.03	99
			weakly to trace skarnified plagioclase-hornblende porphyry dyke with phenocrysts up to 2cm in size, avg 0.7 cm, matrix is med to dark green and aphanitic, common white Q2 veinlets <2mm wide																				69.02	72.07	3.05	434	3.02	99
		70	some with calcite																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Page 6 of 7

Northing: Easting: Elevation: Depth
Drilling Dates: Logged By: Length: Dip
Core Diameter: Casing Depth: Casing: In / Out Azimuth

Visual Log Visual	Struc.	(m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides PY	PO	CP	LI	CS	Alteration GA	EP	MG	MF	SK	From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
							contact at 72.07 is gradational over 5cm																
		72																					
		72.07	72.07	72.87	0.80	SK PY	Massive Sulphide Skarn SKPO	S	S	S	-	-	W	-	S	W	P	72.07	72.87	0.80	M012435	0.80	100
		72.87	- massive, pyrite, pyrrhotite, chalcopyrite, magnetite, garnet skarn,																				
			- only one or two 1mm wide QZ veinlets, most sulphides are																				
			tightly intergrown forming 1-4mm patches and less commonly as 1-2 cm																				
		74	patches, ~1% open vugs but no limonite in vugs, no calcite																				
			72.87	75.14	2.27	SK PY	Semi-massive sulphide skarn SKPO	M	M	M	-	-	W	T	M	W	P	72.87	75.14	2.27	436	2.19	96
		75.14	- very similar to above interval but only semi-massive sulphides,																				
			with less chalcopyrite and more magnetite, GA and skarnified rock.																				
			Not able to tell what the original rock is but most intervals																				
		76	have strong calcite in matrix																				
			75.14	77.22	2.08	KRA3	Plag ± HB Porphyry Dyke SKGA	T	T	T	-	-	M	M	T	M	M	75.14	77.22	2.08	437	2.08	100
	40 C/45		- light green to dark green to pinkish-red skarnified Plag ± HB porphyry dyke,																				
		77.22	- common QZ-CA veinlets up to 1cm wide usually with GA																				
		77.35	envelopes, original rock type is obscured but appears to have																				
		78	QZ eyes and some phenocrysts																				
			77.22	77.35	0.13	SKVN	Skarn vein	M	M	M	-	-	M	T	M	W	P	77.22	77.35	0.13	438	0.13	100
		78.61	- contacts are sharp at 40-45° but alteration makes them																				
			appear gradational, appears to be a quartz sulphide vein																				
		80																					
	45° C	80.33	77.35	78.61	1.26	KRA3	Plag ± HB Porphyry Dyke SKGA	T	T	T	-	-	M	M	T	M	M	77.35	78.61	1.26	439	1.18	94
			very similar to interval 75.14 - 77.22 m																				
	45° C	81.26	- sharp contact at 78.61m but appears to be a skarn contact																				
		82																					
			78.61	80.33	1.72	SKPY	Semi-massive sulphide skarn SKPO	M	M	T	-	-	M	T	M	M	P	78.61	80.33	1.72	440	1.69	98
			- similar to interval 72.87 - 75.14 m PY ≅ MG ≅ GA > PO > MF > CP																				
			- original rock type not discernible, strongly magnetitic																	Blank		441		
			- local patches of mafic skarn minerals and magnetite ± less sulphides																				
		84																					

DRILL HOLE LOG
ARN PROPERTY

Hole: ARN-05 **Zone:** Page 7 of 7

Northing: Easting: Elevation:
Drilling Dates: Logged By: Length:
Core Diameter: Casing Depth: Casing: In / Out

Depth					
Dip					
Azimuth					

Visual Log: Visual	Visual Log: Struc.	Visual Log: (m)	From (m)	To (m)	Interval (m)	Unit	Description	Sulphides: PY	Sulphides: PO	Sulphides: CP	Sulphides: LI	Sulphides: CS	Alteration: KA	Alteration: EP	Alteration: MG	Alteration: MF	Alteration: SK
			80.33	81.26	0.93	KRA2	Plag ± HB porphyry dyke SKGA	T	T	T	-	-	T	T	T	T	W
			- weak - moderate skarnified porphyry, mostly < 2 mm phenocrysts but locally grades into areas with 5mm - 15mm Plag + HB phenocrysts (KRA1)														
			- numerous < 1mm white quartz veinlets with garnet on each side														
	15°	86															
	/ C	86.45	81.26	86.45	5.19	SKGA	Garnet skarn with sulphides SKPY	M	W	M	-	-	S	W	M	M	P
			- very strong garnet skarn overprinting what appears to be a porphyry due to the presence of quartz eyes, weak disseminated calcite, no QZ-CB veinlets, sulphides disseminated or as patches up to 1cm in size														
	50°		- both upper and lower contact sharp														
	/	88															
	45°		- very minor < 1mm pits/ vugs within sulphide areas but not the result of weathering														
	/																
	40°	90															
	/		86.45	91.14	4.69	KRA2	Plag ± HB Porphyry dyke SKGA	T	T	T	-	-	W	T	-	T	M
			- moderately skarnified porphyry with garnet and sulphides along narrow veinlets but not as well developed along white QZ-CA veinlets, trace sulphides along veinlets or as disseminations														
91.14 EOH	m																

From (m)	To (m)	Interval (m)	Sample Number	Rec. (m)	Rec. %
80.33	81.26	0.93	M012442	0.93	100
Y4 sample			M012002		
81.26	83.85	2.59	443	2.53	98
83.85	86.45	2.60	444	2.54	98
86.45	88.80	2.35	445	2.23	95
88.80	91.14	2.34	446	2.34	100

APPENDIX V

DIAMOND DRILL HOLE SYNOPTIC LOGS

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-22 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,546.5	6,870,953.7	1,433.9	21.95 m

Logger: T.C. Becker
Drilling Dates: July 12-13, 2004

Depth	Collar	
Azimuth	020°	
Dip	-50°	
Method	Compass	

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	13.55	13.55	OVBR	Overburden										
13.55	20.58	7.03	KRA2	Plagioclase±hornblende porphyry	13.55	15.89	2.34	M012965	93					
					15.89	18.23	2.34	M012966	91					
					18.23	20.58	2.35	M012967	100					
20.58	21.95	1.37	KRA2	Plagioclase±hornblende porphyry	20.58	21.95	1.37	M012968	50					
				Hole abandoned due to caving at end of hole										

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-21 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,546.3	6,870,952.1	1,433.9	82.30

Logger: T.C. Becker
Drilling Dates: July 10 to 12, 2004

Depth	Collar	70.10 m
Azimuth	155°	n.a.
Dip	-50°	-50.5°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	5.18	5.18	OVBR	Overburden										
5.18	8.70	3.52	KRA2	Moderate to strong skarnified porphyry	5.18	8.70	3.52	M012935	83					
8.70	13.08	4.38	KRA2	Moderately skarnified porphyry	8.70	10.89	2.19	M012936	89					
					10.89	13.08	2.19	M012937	100					
13.08	14.50	1.42	KRA2	Moderate skarnified & weak brecciated porphyry	13.08	14.50	1.42	M012938	100					
14.50	20.22	5.72	MABL	Marble	14.50	17.36	2.86	M012939	98					
					17.36	20.22	2.86	M012940	98					
20.22	21.70	1.48	KRA2	Skarnified porphyry	20.22	21.70	1.48	M012942	100					
21.70	58.12	36.42	KRA2	Plagioclase±hornblende porphry	21.70	24.38	2.68	M012943	100					
					24.38	27.43	3.05	M012944	96					
					27.43	30.48	3.05	M012945	98					
					30.48	33.53	3.05	M012946	99					
					33.53	36.58	3.05	M012947	98					
					36.58	39.62	3.04	M012948	99					
					39.62	42.67	3.05	M012949	95					
					42.67	45.72	3.05	M012950	95					
					45.72	48.77	3.05	M012951	99					
					48.77	51.82	3.05	M012952	100					
					51.82	54.86	3.04	M012953	94					
					54.86	58.12	3.26	M012954	95					
58.12	63.25	5.13	FALT	Fault zone	58.12	60.68	2.56	M012955	95					
					60.68	63.25	2.57	M012956	100					
63.25	82.30	19.05	KRA2	Plagioclase±hornblende porphry	63.25	65.53	2.28	M012957	100					
					65.53	68.58	3.05	M012958	100					
					68.58	71.63	3.05	M012959	78					
					71.63	74.68	3.05	M012960	97					
					74.68	77.72	3.04	M012962	100					
					77.72	80.01	2.29	M012963	100					
					80.01	82.30	2.29	M012964	99					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-20 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,545.5	6,870,951.0	1,433.9	44.20

Logger: T.C. Becker
Drilling Dates: July 9 to 10, 2004

Depth	Collar	44.20 m
Azimuth	200°	n.a.
Dip	-48.5°	-46°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	4.27	4.27	OVBR	Overburden
4.27	7.35	3.08	KRA2	Plagioclase-hornblende porphyry
7.35	15.32	7.97	KRA2	Plagioclase-hornblende porphyry
15.32	17.15	1.83	SKRN	Mixed skarn
17.15	19.81	2.66	KRA2	Weakly skarnified porphyry
19.81	20.45	0.64	SKEP	Epidote skarn
20.45	25.61	5.16	KRA2	Moderately skarnified porphyry
25.61	26.76	1.15	SKGA	Garnet skarn
26.76	34.58	7.82	KRA2	Plagioclase±hornblende porphyry
34.58	36.44	1.86	KRA2	Skarnified porphyry
36.44	41.12	4.68	FALT	Fault zone
41.12	44.20	3.08	KRA2	Plagioclase±hornblende porphyry

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
4.27	7.35	3.08	M012917	87					
7.35	10.08	2.73	M012918	92					
10.08	12.81	2.73	M012919	95					
12.81	15.32	2.51	M012920	94					
15.32	17.15	1.83	M012922	96					
17.15	19.81	2.66	M012923	92					
19.81	20.45	0.64	M012924	100					
20.45	23.03	2.58	M012925	100					
23.03	25.61	2.58	M012926	98					
25.61	26.76	1.15	M012927	98					
26.76	29.37	2.61	M012928	99					
29.37	31.98	2.61	M012929	98					
31.98	34.58	2.60	M012930	96					
34.58	36.44	1.86	M012931	100					
36.44	38.78	2.34	M012932	81					
38.78	41.12	2.34	M012933	100					
41.12	44.20	3.08	M012934	99					

SYNOPTIC LOG
ARN PROPERTY

Hole: Am-19 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,586.9	6,870,973.2	1,449.3	17.37

Logger: T.C. Becker
Drilling Dates: July 8 to 9, 2004

Depth	Collar	
Azimuth	145°	
Dip	-60°	
Method	Compass	

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	17.37	17.37	OVBR	Overburden
				Only had enough casing to reach 12.19 m.
				Hole abandoned due to severe caving.
				All rock fragments were porphyry but they were
				not connecting and some were 'redrilled' even in
				the last sample interval.

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)

SYNOPTIC LOG
ARN PROPERTY

Hole: Am-18 **Zone:** Zone A

Easting:	Northing:	Elevation:	Depth:
516,587.6	6,870,972.8	1,449.7	17.98

Logger: T.C. Becker
Drilling Dates: July 7 to 8, 2004

Depth	Collar	
Azimuth	207°	
Dip	-61°	
Method	Compass	

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	17.98	17.98	OVBR	Overburden										
				Only had enough casing to reach 12.19 m.										
				Hole abandoned due to severe caving.										
				All rock fragments were porphyry but they were										
				not connecting and some were 'redrilled' even in										
				the last sample interval.										

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-17 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,586.9	6,870,972.9	1,449.4	18.29 m

Logger: T.C. Becker
Drilling Dates: July 5 to 7, 2004

Depth	Collar	
Azimuth	185°	
Dip	-50°	
Method	Compass	

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	18.29	18.29	OVBR	Overburden										
				Only had enough casing to reach 12.19 m.	3.05	7.62	4.57	M012907	26					
				Hole abandoned due to severe caving.	7.62	10.67	3.05	M012908	52					
				All rock fragments were porphyry but they were	10.67	13.72	3.05	M012909	81					
				not connecting and some were 'redrilled' even in	13.72	16.76	3.04	M012910	38					
				the last sample interval.	16.76	18.29	1.53	M012911	72					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-16 Zone: Zone B

Easting:	Northing:	Elevation:	Depth:
516,472.1	6,870,984.2	1,395.9	106.68

Logger: T.C. Becker
Drilling Dates: July 2 to 4,2004

Depth	Collar	91.44
Azimuth	217°	n.a.
Dip	-50°	-46°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	2.13	2.13	OVBR	Overburden
2.13	3.53	1.40	SKRN	Mixed skarn
3.53	4.76	1.23	KRA2	Skarnified and brecciated porphyry
4.76	7.17	2.41	KRA3	Skarnified porphyry
7.17	7.97	0.80	SKMF	Mafic skarn
7.97	10.18	2.21	KRA2	Skarnified and bleached porphyry
10.18	10.86	0.68	SKMG	Magnetite skarn
10.86	11.61	0.75	SKPY	Pyrite skarn
11.61	12.40	0.79	KRA3	Skarnified porphyry
12.40	12.75	0.35	SKPY	Pyrite skarn
12.75	13.60	0.85	KRA3	Plagioclase porphyry
13.60	14.36	0.76	SKPY	Pyrite skarn
14.36	15.63	1.27	KRA3	Plagioclase porphyry
15.63	16.57	0.94	SKMF	Mafic skarn
16.57	20.03	3.46	KRA3	Plagioclase porphyry
20.03	20.57	0.54	SKPY	Pyrite skarn
20.57	21.20	0.63	SKMF	Mafic skarn
21.20	23.50	2.30	KRA2	Skarnified porphyry
23.50	30.95	7.45	KRA2	Plagioclase±hornblende porphyry
30.95	31.56	0.61	SKRN	Mixed skarn
31.56	33.53	1.97	KRA3	Skarnified porphyry
33.53	34.10	0.57	SKRN	Mixed skarn
34.10	35.19	1.09	FALT	Fault zone
35.19	35.50	0.31	SKMG	Magnetite skarn
35.50	37.30	1.80	KRA3	Porphyry
37.30	106.68	69.38	KRA2	Plagioclase±hornblende porphyry

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
2.13	3.53	1.40	M012854	91					
3.53	4.76	1.23	M012855	100					
4.76	7.17	2.41	M012856	92					
7.17	7.97	0.80	M012857	95					
7.97	10.18	2.21	M012858	95					
10.18	10.86	0.68	M012859	100					
10.86	11.61	0.75	M012860	100					
11.61	12.40	0.79	M012862	100					
12.40	12.75	0.35	M012863	100					
12.75	13.60	0.85	M012864	95					
13.60	14.36	0.76	M012865	92					
14.36	15.63	1.27	M012866	100					
15.63	16.57	0.94	M012867	100					
16.57	18.30	1.73	M012868	94					
18.30	20.03	1.73	M012869	95					
20.03	20.57	0.54	M012870	93					
20.57	21.20	0.63	M012871	100					
21.20	23.50	2.30	M012872	95					
23.50	25.98	2.48	M012873	100					
25.98	28.46	2.48	M012874	96					
28.46	30.95	2.49	M012875	98					
30.95	31.56	0.61	M012876	100					
31.56	33.53	1.97	M012877	99					
33.53	34.10	0.57	M012878	95					
34.10	35.19	1.09	M012879	100					
35.19	35.50	0.31	M012880	100					
35.50	37.30	1.80	M012882	95					
37.30	39.62	2.32	M012883	95					
39.62	42.67	3.05	M012884	99					
42.67	45.72	3.05	M012885	100					

SYNOPTIC LOG Hole: ARN-16

ARN PROPERTY

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
					45.72	48.77	3.05	M012886	97					
					48.77	51.82	3.05	M012887	98					
					51.82	54.86	3.04	M012888	100					
					54.86	57.91	3.05	M012889	97					
					57.91	60.96	3.05	M012890	98					
					60.96	64.01	3.05	M012891	96					
					64.01	67.06	3.05	M012892	97					
					67.06	70.10	3.04	M012893	100					
					70.10	73.15	3.05	M012894	85					
					73.15	76.20	3.05	M012895	96					
					76.20	79.25	3.05	M012896	98					
					79.25	82.30	3.05	M012897	96					
					82.30	85.34	3.04	M012898	96					
					85.34	88.39	3.05	M012899	91					
					88.39	91.44	3.05	M012901	85					
					91.44	94.49	3.05	M012902	100					
					94.49	97.54	3.05	M012903	88					
					97.54	100.58	3.04	M012904	98					
					100.58	103.63	3.05	M012905	93					
					103.63	106.68	3.05	M012906	98					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-15 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,471.1	6,870,984.7	1,395.1	53.34 m

Logger: T.C. Becker
Drilling Dates: July 1 to 2, 2004

Depth	Collar	EOH
Azimuth	348.5°	n.a.
Dip	-50°	-46°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	2.44	2.44	OVBR	Overburden
2.44	4.75	2.31	SKMG	Magnetite skarn
4.75	6.42	1.67	KRA2	Moderately skarnified porphyry
6.42	9.00	2.58	KRA2	Plagioclase-hornblende porphyry
9.00	9.90	0.90	KRA3	Plagioclase±hornblende porphyry
9.90	11.20	1.30	KRA3	Plagioclase±hornblende porphyry
11.20	19.70	8.50	KRA1	Plagioclase-hornblende porphyry
19.70	20.36	0.66	KRA2	Skarnified porphyry
20.36	22.86	2.50	KRA3	Plagioclase±hornblende porphyry
22.86	25.40	2.54	SKRN	Mixed skarn
25.40	28.17	2.77	KRA3	Plagioclase±hornblende porphyry
28.17	32.50	4.33	KRA3	Plagioclase±hornblende porphyry
32.50	34.43	1.93	KRA2	Plagioclase porphyry
34.43	37.10	2.67	KRA3	Plagioclase±hornblende porphyry
37.10	38.00	0.90	KRA3	Bleached and brecciated porphyry
38.00	41.75	3.75	SKGA	Garnet skarn
41.75	43.59	1.84	KRA3	Plagioclase±hornblende porphyry
43.59	44.42	0.83	SKMF	Mafic skarn
44.42	47.24	2.82	KRA2	Plagioclase±hornblende porphyry
47.24	53.34	6.10	KRA2	Plagioclase±hornblende porphyry

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
2.44	3.59	1.15	M012827	97					
3.59	4.75	1.16	M012828	98					
4.75	6.42	1.67	M012829	96					
6.42	9.00	2.58	M012830	93					
9.00	9.90	0.90	M012831	100					
9.90	11.20	1.30	M012832	98					
11.20	14.03	2.83	M012833	98					
14.03	16.86	2.83	M012834	100					
16.86	19.70	2.84	M012835	97					
19.70	20.36	0.66	M012836	100					
20.36	22.86	2.50	M012837	98					
22.86	25.40	2.54	M012838	100					
25.40	28.17	2.77	M012839	100					
28.17	30.33	2.16	M012841	88					
30.33	32.50	2.17	M012842	96					
32.50	34.43	1.93	M012843	100					
34.43	37.10	2.67	M012844	96					
37.10	38.00	0.90	M012845	100					
38.00	39.25	1.25	M012846	100					
39.25	40.50	1.25	M012847	100					
40.50	41.75	1.25	M012848	100					
41.75	43.59	1.84	M012849	100					
43.59	44.42	0.83	M012850	100					
44.42	47.24	2.82	M012851	100					
47.24	50.29	3.05	M012852	100					
50.29	53.34	3.05	M012853	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-14 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,472.3	6,870,986.2	1,395.3	47.24 m

Logger: T.C. Becker
Drilling Dates: June 30 to July 1, 2004

Depth	Collar	EOH
Azimuth	034	n.a.
Dip	-51°	-47°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	2.13	2.13	OVBR	Overburden										
2.13	2.73	0.60	SKMG	Magnetite skarn	2.13	2.73	0.60	M012802	100					
2.73	8.65	5.92	KRA2	Plagioclase±hornblende porphyry	2.73	5.69	2.96	M012803	100					
					5.69	8.65	2.96	M012804	100					
8.65	11.68	3.03	KRA2	Bleached porphyry	8.65	11.68	3.03	M012805	86					
11.68	17.72	6.04	KRA2	Plagioclase±hornblende porphyry	11.68	14.70	3.02	M012806	97					
					14.70	17.72	3.02	M012807	100					
17.72	24.25	6.53	KRA2	Plagioclase±hornblende porphyry	17.72	19.89	2.17	M012808	94					
					19.89	22.07	2.18	M012809	100					
					22.07	24.25	2.18	M012810	98					
24.25	24.71	0.46	SKRN	Mixed skarn	24.25	24.71	0.46	M012811	100					
24.71	26.66	1.95	KRA3	Plagioclase±hornblende porphyry	24.71	26.66	1.95	M012812	96					
26.66	26.90	0.24	SKRN	Mixed skarn	26.66	26.90	0.24	M012813	96					
26.90	28.96	2.06	KRA2	Moderately skarnified porphyry	26.90	28.96	2.06	M012814	100					
28.96	29.97	1.01	SKRN	Mixed skarn	28.96	29.97	1.01	M012815	100					
29.97	30.60	0.63	KRA2	Plagioclase±hornblende porphyry	29.97	30.60	0.63	M012816	100					
30.60	31.47	0.87	KRA2	Moderately skarnified porphyry	30.60	31.47	0.87	M012817	100					
31.47	32.97	1.50	SKGA	Garnet skarn	31.47	32.97	1.50	M012818	100					
32.97	35.00	2.03	KRA1	Plagioclase-hornblende porphyry	32.97	35.00	2.03	M012819	97					
35.00	35.65	0.65	KRDR	Diorite	35.00	35.65	0.65	M012821	100					
35.65	40.22	4.57	KRA3	Plagioclase±hornblende porphyry	35.65	37.93	2.28	M012822	100					
					37.93	40.22	2.29	M012823	99					
40.22	47.24	7.02	DFMS	Siliceous mudstone	40.22	42.56	2.34	M012824	99					
					42.56	44.90	2.34	M012825	100					
					44.90	47.24	2.34	M012826	98					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-13 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,496.4	6,870,971.9	1,410.0	53.34 m

Logger: T.C. Becker
Drilling Dates: June 29 to 30, 2004

Depth	Collar	EOH
Azimuth	356°	n.a.
Dip	-50°	-49°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	5.49	5.49	OVBR	Overburden
5.49	10.36	4.87	SKRN	Weathered skarnified and mineralization
10.36	11.70	1.34	KRA2	Weakly weathered and skarnified porphyry
11.70	19.01	7.31	KRA2	Plagioclase±hornblende porphyry
19.01	19.55	0.54	FALT	Fault and breccia zone
19.55	30.26	10.71	KRA2	Plagioclase±hornblende porphyry
30.26	31.64	1.38	SKRN	Mixed skarn with sulphides
31.64	38.81	7.17	KRA2	Plagioclase±hornblende porphyry
38.81	41.00	2.19	SKRN	Mixed skarn with sulphides
41.00	47.46	6.46	KRA2	Plagioclase±hornblende porphyry
47.46	47.85	0.39	SKPO	Pyrrhotite skarn
47.85	48.77	0.92	KRA2	Plagioclase±hornblende porphyry
48.77	53.34	4.57	DFMS	Siliceous mudstone

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
5.49	7.93	2.44	M012676	88					
7.93	10.36	2.43	M012677	80					
10.36	11.70	1.34	M012678	100					
11.70	14.13	2.43	M012679	100					
14.13	16.57	2.44	M012680	90					
16.57	19.01	2.44	M012681	100					
19.01	19.55	0.54	M012683	100					
19.55	21.90	2.35	M012684	100					
21.90	24.25	2.35	M012685	100					
24.25	26.60	2.35	M012686	96					
26.60	28.96	2.36	M012687	100					
28.96	30.26	1.30	M012688	100					
30.26	31.64	1.38	M012689	100					
31.64	33.53	1.89	M012690	100					
33.53	36.17	2.64	M012691	100					
36.17	38.81	2.64	M012692	100					
38.81	41.00	2.19	M012693	100					
41.00	43.15	2.15	M012694	100					
43.15	45.30	2.15	M012695	100					
45.30	47.46	2.16	M012696	97					
47.46	47.85	0.39	M012697	100					
47.85	48.77	0.92	M012699	100					
48.77	51.05	2.28	M012700	100					
51.05	53.34	2.29	M012801	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-12 **Zone:** Zone A

Easting:	Northing:	Elevation:	Depth:
516,498.1	6,870,970.7	1,410.0	56.39 m

Logger: T.C. Becker
Drilling Dates: June 28 to 29, 2004

Depth	Collar	EOH
Azimuth	076°	n.a.
Dip	-50.5°	-51°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	3.05	3.05	OVBR	Overburden										
3.05	4.18	1.13	KRA2	Plagioclase±hornblende porphyry	3.05	4.18	1.13	M012638	80					
4.18	6.32	2.14	KRA2	Skarnified plagioclase±hornblende porphyry	4.18	6.32	2.14	M012639	95					
6.32	8.80	2.48	KRA2	Plagioclase±hornblende porphyry	6.32	8.80	2.48	M012640	97					
8.80	9.87	1.07	SKGA	Garnet skarn	8.80	9.87	1.07	M012641	97					
9.87	11.89	2.02	KRA2	Plagioclase±hornblende porphyry	9.87	11.89	2.02	M012643	93					
11.89	12.61	0.72	SKGA	Garnet skarn	11.89	12.61	0.72	M012644	94					
12.61	12.87	0.26	SKPY	Pyrite skarn	12.61	12.87	0.26	M012645	100					
12.87	13.25	0.38	KRA3	Plagioclase±hornblende porphyry	12.87	13.25	0.38	M012646	100					
13.25	13.76	0.51	SKPO	Pyrrhotite skarn	13.25	13.76	0.51	M012647	100					
13.76	16.95	3.19	KRA2	Moderately skarnified porphyry	13.76	16.95	3.19	M012648	97					
16.95	19.85	2.90	KRA2	Moderately skarnified porphyry	16.95	19.85	2.90	M012649	89					
19.85	21.60	1.75	KRA2	Moderately skarnified porphyry	19.85	21.60	1.75	M012650	96					
21.60	22.98	1.38	SKRN	Mixed skarn with sulphides	21.60	22.98	1.38	M012657	100					
22.98	25.07	2.09	KRA2	Moderately skarnified porphyry	22.98	25.07	2.09	M012658	100					
25.07	30.52	5.45	KRDR	Diorite	25.07	27.79	2.72	M012659	96					
					27.79	30.52	2.73	M012660	100					
30.52	32.34	1.82	KRA2	Moderately skarnified porphyry	30.52	32.34	1.82	M012661	91					
32.34	32.85	0.51	SKRN	Mixed skarn with sulphides	32.34	32.85	0.51	M012662	100					
32.85	35.05	2.20	SKGA	Garnet skarn	32.85	35.05	2.20	M012663	98					
35.05	35.50	0.45	KRA3	Plagioclase-hornblende porphyry	35.05	35.50	0.45	M012664	100					
35.50	40.93	5.43	SKRN	Mixed skarn with sulphides	35.50	38.21	2.71	M012665	97					
					38.21	40.93	2.72	M012666	99					
40.93	42.79	1.86	SKGA	Garnet skarn	40.93	42.79	1.86	M012667	100					
42.79	44.20	1.41	KRA2	Plagioclase±hornblende porphyry	42.79	44.20	1.41	M012668	96					
44.20	49.19	4.99	SKMG	Magnetite skarn	44.20	46.69	2.49	M012669	95					
					46.69	49.19	2.50	M012670	100					
49.19	50.29	1.10	SKGA	Garnet skarn	49.19	50.29	1.10	M012671	100					
50.29	53.67	3.38	SKMG	Magnetite skarn	50.29	51.98	1.69	M012672	100					
					51.98	53.67	1.69	M012673	90					
53.67	55.12	1.45	KRA2	Skarnified and bleached porphyry	53.67	55.12	1.45	M012674	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-12

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
55.12	56.39	1.27	KRA3	Plagioclase porphyry	55.12	56.39	1.27	M012674	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-11 Zone: Zone B

Easting:	Northing:	Elevation:	Depth:
516,495.6	6,870,969.0	1,410.0	56.39

Logger: T.C. Becker
Drilling Dates: June 26-28, 2004

Depth	Collar	
Azimuth	203°	
Dip	-50°	
Method	Compass	

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	2.13	2.13	OVBR	Overburden										
2.13	3.25	1.12	SKMG	Magnetite skarn	2.13	3.25	1.12	M012611	91					
3.25	5.15	1.90	SKGA	Brecciated and skarnified rock	3.25	5.15	1.90	M012612	71					
5.15	8.02	2.87	KRA2	Weakly brecciated and skarnified porphyry	5.15	8.02	2.87	M012613	61					
8.02	10.67	2.65	KRA2	Weakly brecciated and skarnified porphyry	8.02	10.67	2.65	M012614	77					
10.67	12.35	1.68	FALT	Bleached clay gouge	10.67	12.35	1.68	M012615	86					
12.35	13.96	1.61	KRA2	Brecciated and skarnified porphyry	12.35	13.96	1.61	M012616	92					
13.96	17.96	4.00	KRA2	Brecciated and skarnified porphyry	13.96	15.96	2.00	M012617	95					
					15.96	17.96	2.00	M012618	100					
17.96	19.81	1.85	SKMG	Magnetite skarn	17.96	19.81	1.85	M012619	92					
19.81	23.84	4.03	KRA2	Skarnified porphyry	19.81	21.82	2.01	M012621	98					
					21.82	23.84	2.02	M012622	100					
23.84	26.03	2.19	KRA2	Plagioclase±hornblende porphyry	23.84	26.03	2.19	M012623	89					
26.03	28.52	2.49	KRA2	Plagioclase±hornblende porphyry	26.03	28.52	2.49	M012624	86					
28.52	33.26	4.74	KRA2	Skarnified and bleached porphyry	28.52	30.89	2.37	M012625	97					
					30.89	33.26	2.37	M012626	97					
33.26	34.96	1.70	FALT	Clay altered fault zone	33.26	34.96	1.70	M012627	100					
34.96	36.30	1.34	SKMG	Magnetite and sulphide skarn	34.96	36.30	1.34	M012628	96					
36.30	38.10	1.80	KRA2	Plagioclase±hornblende porphyry	36.30	38.10	1.80	M012629	69					
38.10	48.77	10.67	KRA2	Plagioclase±hornblende porphyry	38.10	40.76	2.66	M012630	95					
					40.76	43.43	2.67	M012631	100					
					43.43	46.10	2.67	M012632	89					
					46.10	48.77	2.67	M012633	94					
48.77	50.75	1.98	KRA1	Plagioclase-hornblende porphyry	48.77	50.75	1.98	M012634	92					
50.75	55.90	5.15	KRA2	Plagioclase±hornblende porphyry	50.75	53.32	2.57	M012635	94					
					53.32	55.90	2.58	M012636	100					
55.90	56.39	0.49	FALT	Fault zone	55.90	56.39	0.49	M012637	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-10 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,496.2	6,870,972.4	1,410.0	61.57 m

Logger: T.C. Becker
Drilling Dates: June 26 to 27, 2004

Depth	Collar	61.57 m
Azimuth	203°	n.a.
Dip	-50°	-50°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	4.57	4.57	OVBR	Overburden
4.57	6.89	2.32	KRA2	Plagioclase±hornblende porphyry
6.89	10.90	4.01	KRA2	Plagioclase-hornblende porphyry
10.90	17.76	6.86	KRA2	Plagioclase-hornblende porphyry
17.76	19.10	1.34	KRDR	Diorite
19.10	23.36	4.26	KRA2	Plagioclase-hornblende porphyry
23.36	26.41	3.05	SKRN	Sulphide skarn
26.41	27.66	1.25	SKRN	Mixed skarn with sulphides
27.66	29.24	1.58	KRA2	Skarnified plagioclase-hornblende porphyry
29.24	36.16	6.92	KRA2	Plagioclase-hornblende porphyry
36.16	37.09	0.93	KRA2	Sheared porhyry
37.09	44.86	7.77	KRA2	Plagioclase-hornblende porphyry
44.86	52.29	7.43	DFMS	Siliceous mudstone
52.29	53.46	1.17	KRA2	Plagioclase±hornblende porphyry
53.46	57.05	3.59	DFMS	Siliceous mudstone
57.05	58.30	1.25	KRA2	Plagioclase±hornblende porphyry
58.30	61.57	3.27	DFMS	Siliceous mudstone

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	4.57	4.57	M012582	23					
4.57	6.89	2.32	M012583	88					
6.89	8.89	2.00	M012584	90					
8.89	10.90	2.01	M012585	96					
10.90	13.19	2.29	M012586	93					
13.19	15.48	2.29	M012587	100					
15.48	17.76	2.28	M012588	90					
17.76	19.10	1.34	M012589	94					
19.10	21.23	2.13	M012590	87					
21.23	23.36	2.13	M012591	98					
23.36	24.88	1.52	M012592	100					
24.88	26.41	1.53	M012593	100					
26.41	27.66	1.25	M012594	98					
27.66	29.24	1.58	M012595	100					
29.24	31.55	2.31	M012596	92					
31.55	33.86	2.31	M012597	94					
33.86	36.16	2.30	M012598	99					
36.16	37.09	0.93	M012599	100					
37.09	39.68	2.59	M012601	97					
39.68	42.27	2.59	M012602	96					
42.27	44.86	2.59	M012603	97					
44.86	47.34	2.48	M012604	97					
47.34	49.82	2.48	M012605	100					
49.82	52.29	2.47	M012606	99					
52.29	53.46	1.17	M012607	94					
53.46	57.05	3.59	M012608	96					
57.05	58.30	1.25	M012609	100					
58.30	61.57	3.27	M012610	99					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-09 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,510.5	6,870,940.8	1,424.5	95.71 m

Logger: T.C.Becker
Drilling Dates: June 24 to 25, 2004

Depth	Collar	86.87m
Azimuth	062°	n.a.
Dip	-50°	-47°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
0.00	2.13	2.13	OVBR	Overburden										
2.13	3.17	1.04	FALT	Fault and basalt	2.13	3.17	1.04	M012535	56					
3.17	4.57	1.40	KRDR	Diorite	3.17	4.57	1.40	M012536	98					
4.57	6.49	1.92	CHLS	Skarnified limestone	4.57	6.49	1.92	M012537	100					
6.49	7.48	0.99	SKMG	Magnetite skarn	6.49	7.48	0.99	M012538	96					
7.48	8.60	1.12	CHLS	Skarnified limestone	7.48	8.60	1.12	M012539	100					
8.60	10.87	2.27	KRA3	Plagioclase±hornblende porphyry dyke	8.60	10.87	2.27	M012540	91					
10.87	13.82	2.95	CHLS	Magnetite and garnet skarnified limestone	10.87	13.82	2.95	M012541	97					
13.82	14.24	0.42	KRA3	Plagioclase±hornblende porphyry dyke	13.82	14.24	0.42	M012543	98					
14.24	23.08	8.84	KRA2	Plagioclase±hornblende porphyry dyke	14.24	15.24	1.00	M012544	100					
					15.24	17.85	2.61	M012545	97					
					17.85	20.46	2.61	M012546	98					
					20.46	23.08	2.62	M012547	98					
23.08	26.18	3.10	KRDR	Diorite and an 11 cm wide porphyry dyke	23.08	26.18	3.10	M012548	96					
26.18	28.23	2.05	KRA2	Plagioclase±hornblende porphyry dyke	26.18	28.23	2.05	M012549	99					
28.23	30.00	1.77	SKGA	Garnet skarn	28.23	30.00	1.77	M012550	96					
30.00	44.10	14.10	KRA3	Plagioclase-hornblende porphyry dyke	30.00	32.82	2.82	M012551	100					
					32.82	35.64	2.82	M012552	100					
					35.64	38.46	2.82	M012553	95					
					38.46	41.28	2.82	M012554	96					
					41.28	44.10	2.82	M012555	100					
44.10	44.60	0.50	FALT	Fault zone	44.10	44.60	0.50	M012556	100					
44.60	46.89	2.29	KRA2	Plagioclase±hornblende porphyry dyke	44.60	46.89	2.29	M012557	93					
46.89	48.55	1.66	KRA3	Plagioclase±hornblende porphyry dyke	46.89	48.55	1.66	M012558	89					
48.55	51.71	3.16	KRDR	Diorite	48.55	51.71	3.16	M012559	97					
51.71	53.56	1.85	SKPY	Pyrite skarn - common sulphides	51.71	53.56	1.85	M012560	100					
53.56	54.96	1.40	SKMF	Mafic mineral skarn	53.56	54.96	1.40	M012561	100					
54.96	57.63	2.67	KRA1	Plagioclase-hornblende porphyry dyke	54.96	57.63	2.67	M012563	97					
57.63	59.44	1.81	KRA2	Brecciated and altered porphyry	57.63	59.44	1.81	M012564	100					
59.44	63.40	3.96	KRA2	Plagioclase-hornblende porphyry dyke	59.44	61.42	1.98	M012565	100					
					61.42	63.40	1.98	M012566	100					

SYNOPTIC LOG **Hole:** ARN-09

ARN PROPERTY

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
63.40	66.70	3.30	SKGA	Garnet skarn - common sulphides	63.40	65.05	1.65	M012567	100					
					65.05	66.70	1.65	M012568	100					
66.70	67.96	1.26	KRA2	Plagioclase-hornblende porphyry dyke	66.70	67.92	1.22	M012569	100					
67.96	73.52	5.56	SKGA	Garnet skarn - common sulphides	67.92	70.70	2.78	M012570	98					
					70.70	73.52	2.82	M012571	100					
73.52	74.88	1.36	KRA2	Plagioclase-hornblende porphyry dyke	73.52	74.88	1.36	M012572	97					
74.88	80.53	5.65	SKGA	Garnet skarn - common sulphides	74.88	77.70	2.82	M012573	100					
					77.70	80.53	2.83	M012574	93					
80.53	81.57	1.04	KRA2	Plagioclase-hornblende porphyry dyke	80.53	81.57	1.04	M012575	98					
81.57	93.82	12.25	SKGA	Garnet skarn - common sulphides	81.57	84.63	3.06	M012576	99					
					84.63	87.69	3.06	M012577	94					
					87.69	90.75	3.06	M012578	96					
					90.75	93.82	3.07	M012579	100					
93.82	95.71	1.89	KRA3	Weakly skarnified plagioclase-hornblende porphyry dyke	93.82	95.71	1.89	M012581	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-08 Zone: Zone B

Easting:	Northing:	Elevation:	Depth:
516,509.0	6,870,940.4	1,424.4	54.86 m

Logger: T.C. Becker
Drilling Dates: June 22 to 23, 2004

Depth	Collar	EOH
Azimuth	219°	n.a.
Dip	-50°	-49°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	2.13	2.13	OVBR	Overburden
2.13	4.68	2.55	NFVC	Basalt
4.68	21.64	16.96	KRA3	Plagioclase±hornblende porphyry
21.64	22.59	0.95	SKGA	Skarn with sulphides
22.59	25.22	2.63	KRA2	Plagioclase-hornblende porphyry
25.22	25.50	0.28	SKGA	Skarn with sulphides
25.50	32.34	6.84	CHLS	Skarnified limestone
32.34	32.72	0.38	SKMG	Massive magnetite skarn
32.72	35.05	2.33	KRA1	Plagioclase-hornblende porphyry
35.05	35.41	0.36	SKPO	Massive pyrrhotite skarn
35.41	42.93	7.52	MABL	Marble
42.93	48.23	5.30	CHLS	Skarnified limestone with minor sulphides
48.23	54.86	6.63	KRA2	Plagioclase±hornblende porphyry

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
2.13	4.68	2.55	M012510	97					
4.68	7.17	2.49	M012511	92					
7.17	9.68	2.51	M012512	92					
9.68	12.67	2.99	M012513	99					
12.67	15.66	2.99	M012514	92					
15.66	18.65	2.99	M012515	100					
18.65	21.64	2.99	M012516	95					
21.64	22.59	0.95	M012517	87					
22.59	25.22	2.63	M012518	98					
25.22	25.50	0.28	M012519	100					
25.50	27.78	2.28	M012521	96					
27.78	30.06	2.28	M012522	96					
30.06	32.34	2.28	M012523	97					
32.34	32.74	0.40	M012524	100					
32.74	35.05	2.31	M012525	94					
35.05	35.41	0.36	M012526	100					
35.41	37.92	2.51	M012527	98					
37.92	40.43	2.51	M012528	100					
40.43	42.93	2.50	M012529	96					
42.93	45.58	2.65	M012530	98					
45.58	48.23	2.65	M012531	94					
48.23	50.44	2.21	M012532	96					
50.44	52.65	2.21	M012533	96					
52.65	54.86	2.21	M012534	100					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-07 Zone: Zone B

Easting:	Northing:	Elevation:	Depth:
516,509.6	6,870,940.3	1,424.4	33.53 m

Logger: T.C. Becker
Drilling Dates: June 22 to 23, 2004

Depth	Collar	EOH
Azimuth	190°	n.a.
Dip	-50°	-40°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	3.05	3.05	OVBR	
3.05	6.10	3.05	NFVC	Basalt
6.10	7.70	1.60	KRA3	Plagioclase±hornblende porphyry
7.70	8.42	0.72	KRDR	Diorite
8.42	11.81	3.39	KRA3	Plagioclase±hornblende porphyry
11.81	15.41	3.60	NFVC	Basalt
15.41	16.00	0.59	KRA3	Magnetite skarn and porphyry
16.00	21.08	5.08	KRA2	Plagioclase±hornblende porphyry
21.08	21.71	0.63	MABL	Marble with sulphides along edges
21.71	27.52	5.81	KRA2	Plagioclase±hornblende porphyry
27.52	28.13	0.61	KRA2	Sulphides and skarnified porphyry
28.13	33.53	5.40	KRA3	Plagioclase±hornblende porphyry

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
3.05	6.10	3.05	M012495	99					
6.10	7.70	1.60	M012496	96					
7.70	8.42	0.72	M012497	81					
8.42	11.81	3.39	M012498	93					
11.81	15.41	3.60	M012499	99					
15.41	16.00	0.59	M012500	93					
16.00	18.54	2.54	M012501	98					
18.54	21.08	2.54	M012502	90					
21.08	21.71	0.63	M012503	100					
21.71	24.61	2.90	M012505	93					
24.61	27.52	2.91	M012506	94					
27.52	28.13	0.61	M012507	93					
28.13	30.83	2.70	M012508	99					
30.83	33.53	2.70	M012509	91					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-06 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,510.4	6,870,941.9	1,424.5	91.44

Logger: T.C.Becker
Drilling Dates: June 21 to 22, 2004

Depth	Collar	EOH
Azimuth	034°	n.a.
Dip	-50°	-52.5°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	2.13	2.13	OVBR	
2.13	3.05	0.92	KRDR	Diorite
3.05	6.75	3.70	KRA3	Plagioclase±hornblende porphyry
6.75	8.51	1.76	KRA3	Plagioclase±hornblende porphyry
8.51	11.94	3.43	KRA3	Moderately skarnified porphyry
				- trace sulphides
11.94	16.83	4.89	KRA3	Plagioclase±hornblende porphyry
16.83	20.45	3.62	KRA2	Plagioclase±hornblende porphyry
20.45	22.86	2.41	KRA2	Plagioclase±hornblende porphyry
22.86	24.38	1.52	SKMG	Magnetite skarn
24.38	30.37	5.99	KRA2	Plagioclase±hornblende porphyry
30.37	31.76	1.39	SKPY	Pyrite skarn
31.76	33.53	1.77	KRA2	Plagioclase-hornblende porphyry
33.53	35.34	1.81	KRA3	Plagioclase±hornblende porphyry
35.34	35.65	0.31	SKMG	Magnetite skarn
35.65	39.47	3.82	KRA3	Plagioclase±hornblende porphyry
39.47	47.38	7.91	KRDR	Diorite
47.38	47.84	0.46	KRA2	Plagioclase-hornblende porphyry
47.84	53.34	5.50	KRDR	Diorite

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
2.13	3.05	0.92	M012447	83					
3.05	4.90	1.85	M012448	93					
4.90	6.75	1.85	M012449	95					
6.75	8.51	1.76	M012450	89					
8.51	9.65	1.14	M012451	100					
9.65	10.79	1.14	M012452	78					
10.79	11.94	1.15	M012453	90					
11.94	14.38	2.44	M012454	95					
14.38	16.83	2.45	M012455	91					
16.83	18.64	1.81	M012456	95					
18.64	20.45	1.81	M012457	99					
20.45	22.86	2.41	M012458	96					
22.86	24.38	1.52	M012459	97					
24.38	25.91	1.53	M012460	93					
25.91	27.43	1.52	M012461	100					
27.43	28.96	1.53	M012462	93					
28.96	30.37	1.41	M012463	96					
30.37	31.76	1.39	M012464	96					
31.76	33.53	1.77	M012466	92					
33.53	35.34	1.81	M012467	96					
35.34	35.65	0.31	M012468	100					
35.65	36.58	0.93	M012469	94					
36.58	38.02	1.44	M012470	91					
38.02	39.47	1.45	M012471	93					
39.47	42.11	2.64	M012472	90					
42.11	44.75	2.64	M012473	92					
44.75	47.38	2.63	M012474	97					
47.38	47.84	0.46	M012475	100					
47.84	50.59	2.75	M012476	97					
50.59	53.34	2.75	M012477	100					

SYNOPTIC LOG **Hole:** ARN-06

ARN PROPERTY

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
53.34	56.34	3.00	KRA3	Plagioclase±hornblende porphyry	53.34	56.34	3.00	M012478	100					
56.34	64.01	7.67	KRA3	Plagioclase±hornblende porphyry	56.34	58.90	2.56	M012479	88					
					58.90	61.46	2.56	M012480	98					
					61.46	64.01	2.55	M012481	97					
64.01	64.98	0.97	KRDR	Diorite	64.01	64.98	0.97	M012483	100					
64.98	68.41	3.43	KRA2	Plagioclase-hornblende porphyry	64.98	66.69	1.71	M012484	96					
					66.69	68.41	1.72	M012485	88					
68.41	71.96	3.55	SKMG	Magnetite skarn	68.41	70.10	1.69	M012486	95					
				disseminated sulphides in massive magnetite	70.10	71.96	1.86	M012487	98					
71.96	83.40	11.44	KRA2	Plagioclase±hornblende porphyry	71.96	74.82	2.86	M012488	99					
					74.82	77.68	2.86	M012489	99					
					77.68	80.54	2.86	M012490	95					
					80.54	83.40	2.86	M012491	90					
83.40	91.44	8.04	KRA2	Plagioclase-hornblende porphyry	83.40	86.08	2.68	M012492	100					
					86.08	88.76	2.68	M012493	100					
					88.76	91.44	2.68	M012494	90					

SYNOPTIC LOG
ARN PROPERTY

Hole: ARN-05 Zone: Zone A

Easting:	Northing:	Elevation:	Depth:
516,510.5	6,870,941.5	1,424.4	91.14 m

Logger: T.C. Becker
Drilling Dates: June 19 to 21, 2004

Depth	Collar	EOH
Azimuth	085	n.a.
Dip	-51.5°	-50°
Method	Compass	Acid

From (m)	To (m)	Interval (m)	Unit	Comments
0.00	1.00	1.00	OVBR	No recovery
1.00	2.68	1.68	0VBR	Basalt and Kluane Range felsic dyke
2.68	3.20	0.52	FALT	Fault zone
3.20	6.07	2.87	KRDR	Diorite
6.07	7.26	1.19	NFVC	Basalt
7.26	10.17	2.91	CHLS	Skarnified limestone with sulphides
10.17	17.27	7.10	KRA3	Skarnified porphyry with trace sulphides
17.27	18.94	1.67	KRA3	Skarnified porphyry with weak sulphides
18.94	20.24	1.30	KRA2	Porphyry
20.24	27.43	7.19	KRA3	Skarnified porphyry with trace sulphides
27.43	29.42	1.99	KRA2	Porphyry dyke
29.42	33.92	4.50	KRA3	Skarnified porphyry with trace sulphides
33.92	46.53	12.61	KRA3	Skarnified porphyry with trace sulphides
46.53	48.04	1.51	SKMG	Magentite skarn
48.04	50.18	2.14	SKMG	Magnetite skarn
50.18	54.50	4.32	KRA3	Plagioclase porphyry
54.50	56.39	1.89	FALT	Brecciated fault zone
56.39	58.88	2.49	CHLS	Moderately skarnified limestone
58.88	60.04	1.16	KRDR	Chilled margine of a diorite
60.04	64.01	3.97	KRDR	Diorite

From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
1.00	2.68	1.68	M012401	24					
2.68	3.20	0.52	M012402	98					
3.20	6.07	2.87	M012403	92					
6.07	7.26	1.19	M012404	91					
7.26	8.71	1.45	M012405	91					
8.71	10.17	1.46	M012406	88					
10.17	12.54	2.37	M012407	97					
12.54	14.91	2.37	M012408	92					
14.91	17.27	2.36	M012409	98					
17.27	18.94	1.67	M012410	94					
18.94	20.24	1.30	M012411	62					
20.24	22.64	2.40	M012412	100					
22.64	25.04	2.40	M012413	83					
25.04	27.43	2.39	M012414	91					
27.43	29.42	1.99	M012415	87					
29.42	31.67	2.25	M012416	100					
31.67	33.92	2.25	M012417	96					
33.92	37.07	3.15	M012418	97					
37.07	40.22	3.15	M012419	95					
40.22	43.37	3.15	M012420	82					
43.37	46.53	3.16	M012421	90					
46.53	48.04	1.51	M012423	84					
48.04	50.18	2.14	M012424	100					
50.18	52.34	2.16	M012425	97					
52.34	54.50	2.16	M012426	99					
54.50	56.39	1.89	M012427	97					
56.39	58.88	2.49	M012428	99					
58.88	60.04	1.16	M012429	100					
60.04	62.03	1.99	M012430	90					
62.03	64.01	1.98	M012431	98					

SYNOPTIC LOG **Hole:** ARN-05

ARN PROPERTY

From (m)	To (m)	Interval (m)	Unit	Comments	From (m)	To (m)	Interval (m)	Sample No.	REC %	Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	S (%)
64.01	65.97	1.96	KRDR	Chilled margine of a diorite	64.01	65.97	1.96	M012432	100					
65.97	72.07	6.10	KRA1	Plagioclase-hornblende porphyry	65.97	69.02	3.05	M012433	99					
					69.02	72.07	3.05	M012434	99					
72.07	72.87	0.80	SKPY	Massive sulphide skarn	72.07	72.87	0.80	M012435	100					
72.87	75.14	2.27	SKPY	Semi-massive sulphide skarn	72.87	75.14	2.27	M012436	96					
75.14	77.22	2.08	KRA3	Plagioclase±hornblende porphyry	75.14	77.22	2.08	M012437	100					
77.22	77.35	0.13	SKVN	Skarn vein	77.22	77.35	0.13	M012438	100					
77.35	78.61	1.26	KRA3	Plagioclase±hornblende porphyry	77.35	78.61	1.26	M012439	94					
78.61	80.33	1.72	SKPY	Semi-massive sulphide skarn	78.61	80.33	1.72	M012440	98					
80.33	81.26	0.93	KRA2	Plagioclase±hornblende porphyry	80.33	81.26	0.93	M012442	100					
81.26	86.45	5.19	SKGA	Garnet skarn with sulphides	81.26	83.85	2.59	M012443	98					
					83.85	86.45	2.60	M012444	98					
86.45	91.14	4.69	KRA2	Plagioclase±hornblende porphyry	86.45	88.80	2.35	M012445	95					
					88.80	91.14	2.34	M012446	100					

APPENDIX VI

CERTIFICATES OF ANALYSIS

ALS Chemex
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ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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

Finalized Date: 3-SEP-2004
Account: RCM

CERTIFICATE VA04058272

Project: ARN-WEST

P.O. No.:

This report is for 31 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-AUG-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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

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

Signature:

ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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

Project: ARN-WEST

Finalized Date: 9-SEP-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04058272

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M011812		2.26	0.398	0.2	2.83	14	<10	20	<0.5	<2	9.26	<0.5	92	16	2460	7.89
M011813		2.36	0.179	1.4	1.54	20	<10	10	<0.5	<2	5.14	<0.5	99	32	3240	12.20
M011814		2.90	0.451	1.4	0.79	41	<10	10	<0.5	<2	1.26	0.8	10	21	1325	15.0
M011815		0.58	0.037	0.2	1.74	17	<10	10	<0.5	<2	10.15	<0.5	36	40	860	9.34
M011816		0.72	3.23	1.7	2.49	278	<10	20	<0.5	3	1.92	<0.5	14	47	2220	4.93
M011817		0.96	2.83	1.0	0.81	54	<10	20	<0.5	4	12.40	<0.5	18	24	1515	22.0
M011818		2.70	0.484	<0.2	0.93	8	<10	<10	<0.5	<2	4.09	<0.5	6	20	320	6.15
M011819		3.40	0.539	0.2	1.82	9	<10	10	<0.5	2	2.23	<0.5	22	9	654	4.17
M011820		3.14	0.439	<0.2	2.95	10	<10	20	<0.5	2	4.06	<0.5	17	28	370	5.80
M011821		3.52	0.456	<0.2	1.90	8	<10	20	<0.5	<2	3.24	<0.5	13	16	245	5.01
M011822		2.80	0.454	0.3	2.66	9	<10	30	<0.5	<2	6.85	<0.5	10	21	320	11.60
M011823		3.24	0.155	<0.2	1.14	4	<10	10	<0.5	<2	4.83	<0.5	8	41	169	7.99
M011824		3.10	0.281	0.8	2.33	10	<10	30	<0.5	<2	5.65	<0.5	15	29	305	11.20
M011825		2.76	0.361	0.4	0.97	11	<10	10	<0.5	<2	3.40	<0.5	40	20	415	6.94
M011826		3.08	0.112	0.4	1.08	8	<10	10	<0.5	<2	7.01	<0.5	19	34	509	7.01
M011827		1.24	0.203	0.2	2.89	7	<10	30	<0.5	<2	4.68	<0.5	11	27	152	4.18
M011828		1.66	0.105	0.3	1.66	13	<10	10	<0.5	<2	1.74	<0.5	7	18	502	12.20
M011829		3.14	0.274	0.8	1.26	4	<10	10	<0.5	4	2.15	<0.5	46	17	678	12.05
M011830		1.50	0.081	<0.2	2.11	7	<10	<10	<0.5	<2	5.80	<0.5	4	46	172	5.18
M011831		0.58	0.023	<0.2	0.33	8	10	<10	<0.5	<2	>25.0	<0.5	61	7	1160	7.58
M011832		1.30	0.611	1.8	0.56	11	<10	10	<0.5	5	2.77	<0.5	60	22	2550	40.3
M011833		1.84	1.470	0.5	0.97	6	<10	<10	<0.5	2	3.08	<0.5	11	33	461	9.76
M011834		2.50	0.610	0.3	1.05	69	<10	<10	<0.5	2	5.53	<0.5	37	38	356	10.75
M011835		1.20	1.455	0.8	0.66	4	<10	10	<0.5	8	3.52	<0.5	201	16	894	23.4
M011836		0.40	2.46	0.3	0.86	64	<10	10	<0.5	2	1.46	<0.5	22	30	1150	18.8
M011837		2.14	2.22	1.1	0.75	14	<10	10	<0.5	2	1.76	<0.5	7	43	412	8.74
M011838		1.66	0.422	<0.2	1.84	16	<10	<10	<0.5	<2	6.23	<0.5	9	42	159	6.43
M011839		2.62	1.470	0.9	0.37	16	<10	<10	<0.5	8	2.63	<0.5	348	20	2980	30.2
M011840		1.42	2.46	2.2	0.28	672	<10	<10	<0.5	11	1.21	<0.5	10	17	965	35.9
M011841		2.32	0.517	0.5	1.38	18	<10	30	<0.5	<2	1.86	<0.5	20	30	664	4.50
M011842		2.28	1.260	5.5	1.55	8	<10	20	<0.5	3	3.03	<0.5	33	32	3110	8.81

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VANCOUVER BC V6B 1L8

Project: ARN-WEST

CERTIFICATE OF ANALYSIS VA04058272

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M011812		<10	<1	0.09	10	0.49	1135	6	0.09	13	1110	3	0.27	<2	3	228
M011813		<10	1	0.03	<10	0.32	1090	3	0.03	21	680	2	3.07	<2	4	16
M011814		<10	<1	0.03	<10	0.22	401	3	0.03	3	990	5	0.62	<2	2	17
M011815		<10	<1	0.01	<10	0.21	1475	1	0.01	6	600	<2	0.68	<2	2	11
M011816		10	<1	0.06	<10	0.79	420	<1	0.19	28	710	5	0.84	<2	3	123
M011817		<10	<1	0.09	<10	0.30	592	1	0.05	11	720	3	0.68	<2	2	321
M011818		<10	<1	0.01	<10	0.16	701	<1	0.01	3	790	2	0.31	<2	2	6
M011819		<10	<1	0.05	<10	0.48	652	1	0.11	11	800	39	0.90	<2	3	74
M011820		10	<1	0.16	10	0.45	1160	1	0.16	12	1100	4	0.55	<2	3	90
M011821		<10	1	0.13	10	0.43	840	5	0.10	7	1110	3	0.59	<2	2	32
M011822		10	1	0.31	10	0.28	1725	6	0.17	3	1100	<2	0.86	<2	2	15
M011823		<10	<1	0.11	10	0.21	986	3	0.05	6	1150	2	0.28	<2	3	7
M011824		10	<1	0.30	10	0.26	1850	3	0.13	7	1270	<2	0.37	<2	2	12
M011825		<10	<1	0.01	<10	0.28	1155	2	<0.01	13	730	3	0.49	2	2	8
M011826		<10	<1	0.01	<10	0.21	1585	2	0.01	15	700	3	0.24	<2	3	11
M011827		10	<1	0.05	10	0.24	1260	7	0.12	14	730	<2	0.05	<2	3	174
M011828		<10	<1	0.02	<10	0.22	333	29	0.06	6	1080	<2	0.43	<2	1	66
M011829		<10	<1	0.01	<10	0.18	550	1	0.01	25	970	4	1.32	<2	2	35
M011830		<10	<1	0.01	<10	0.25	1225	<1	0.02	5	700	<2	0.08	<2	4	29
M011831		<10	1	0.01	<10	0.05	327	<1	0.04	11	410	2	<0.01	<2	<1	824
M011832		<10	<1	0.02	<10	0.06	417	13	0.01	7	830	<2	3.77	<2	1	3
M011833		<10	<1	0.01	<10	0.09	705	1	0.01	4	760	4	0.43	<2	4	11
M011834		<10	<1	0.01	<10	0.29	1075	10	0.01	20	1780	2	0.09	<2	2	7
M011835		<10	<1	0.01	<10	0.08	668	3	0.01	137	1110	<2	7.31	<2	1	2
M011836		10	<1	0.07	<10	0.32	433	29	0.07	8	1010	4	0.64	<2	5	16
M011837		<10	<1	0.03	<10	0.25	369	16	0.02	2	680	4	0.30	<2	4	5
M011838		<10	1	0.01	<10	0.34	938	7	0.01	5	1020	<2	0.13	<2	4	8
M011839		<10	<1	0.01	<10	0.04	349	3	<0.01	120	850	2	>10.0	<2	1	<1
M011840		<10	<1	0.01	<10	0.03	213	17	<0.01	4	1200	4	1.88	16	1	1
M011841		<10	<1	0.07	<10	0.42	448	<1	0.09	16	820	2	0.38	<2	3	105
M011842		<10	1	0.20	<10	0.61	666	<1	0.14	27	2050	3	0.78	<2	4	47

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VANCOUVER BC V6B 1L8

Project: ARN-WEST

Finalized Date: 9-SEP-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04058272

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M011812		0.11	<10	<10	49	<10	57
M011813		0.10	<10	<10	46	<10	103
M011814		0.08	<10	<10	39	<10	40
M011815		0.05	<10	<10	25	<10	28
M011816		0.08	<10	<10	43	<10	58
M011817		0.05	<10	<10	22	<10	52
M011818		0.04	<10	<10	18	<10	14
M011819		0.07	<10	<10	43	<10	77
M011820		0.12	<10	<10	49	<10	41
M011821		0.06	<10	<10	41	<10	32
M011822		0.05	<10	<10	35	<10	38
M011823		0.05	<10	<10	32	<10	29
M011824		0.06	<10	<10	50	<10	46
M011825		0.04	<10	<10	33	<10	40
M011826		0.05	<10	<10	34	<10	31
M011827		0.11	<10	<10	46	<10	28
M011828		0.08	<10	<10	33	<10	16
M011829		0.06	<10	<10	28	<10	43
M011830		0.10	<10	<10	54	<10	15
M011831		0.01	<10	<10	4	<10	112
M011832		0.05	<10	<10	28	10	21
M011833		0.08	<10	<10	46	<10	17
M011834		0.04	<10	<10	31	<10	20
M011835		0.04	<10	<10	30	<10	25
M011836		0.14	<10	<10	71	<10	31
M011837		0.08	<10	<10	40	<10	14
M011838		0.08	<10	<10	45	<10	12
M011839		0.02	<10	<10	8	<10	22
M011840		0.03	<10	<10	23	<10	14
M011841		0.08	<10	<10	56	<10	38
M011842		0.20	<10	<10	151	<10	63

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Finalized Date: 17-AUG-2004
Account: RCM

CERTIFICATE VA04054689

Project: ARN

P.O. No.:

This report is for 13 Pulp samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

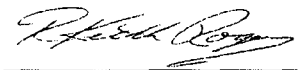
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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

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VANCOUVER BC V6B 1L8

Project: ARN

Finalized Date: 27-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04054689

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012009		0.24	0.009		<0.2	1.12	24	<10	<10	<0.5	2	9.92	<0.5	16	11	152
M012010		0.16	<0.005		<0.2	1.56	13	10	10	<0.5	<2	1.98	<0.5	28	60	176
M012011		0.24	0.048		<0.2	1.46	8	10	10	<0.5	<2	3.04	<0.5	4	2	7
M012012		0.24	0.027		<0.2	1.04	5	<10	<10	<0.5	<2	5.30	<0.5	14	44	72
M012013		0.16	<0.005		0.2	1.76	26	<10	10	<0.5	<2	1.90	<0.5	40	76	188
M012014		0.24	0.230		1.5	1.69	44	<10	10	<0.5	18	6.35	<0.5	182	31	5530
M012015		0.28	<0.005		<0.2	1.30	6	<10	<10	<0.5	<2	8.27	<0.5	16	6	160
M012016		0.24	0.009		<0.2	0.74	32	<10	<10	<0.5	<2	4.53	<0.5	25	24	42
M012017		0.28	>10.0	60.2	12.2	0.44	17	10	<10	<0.5	31	1.96	<0.5	625	17	9760
M012018A		0.12	0.276		1.1	0.66	46	10	60	<0.5	6	3.95	<0.5	39	29	2200
M012018B		0.08	0.318		1.1	0.51	44	<10	70	<0.5	10	3.84	<0.5	45	23	2140
M012019		0.22	0.018		<0.2	3.52	4	10	10	<0.5	<2	2.55	<0.5	31	213	118
M012020		0.24	4.03		0.5	0.97	6	20	<10	<0.5	<2	9.30	<0.5	46	9	1140

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Project: ARN

Finalized Date: 27-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04054689

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	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
M012009		9.57	<10	1	0.01	<10	0.19	1390	<1	0.01	33	1340	6	0.89	3	1
M012010		6.05	<10	2	0.08	10	0.67	1340	<1	0.07	68	1230	6	0.31	<2	19
M012011		3.22	<10	2	0.10	<10	0.44	806	9	0.08	11	1240	3	0.06	<2	4
M012012		10.75	<10	2	0.02	<10	0.85	2480	<1	0.03	30	870	4	0.21	<2	7
M012013		5.14	<10	2	0.07	10	0.74	990	1	0.09	94	800	<2	0.57	<2	16
M012014		19.2	<10	4	0.03	10	0.52	1470	6	0.02	55	1200	14	6.77	3	4
M012015		4.66	<10	2	0.01	<10	0.19	1105	<1	0.01	6	1190	3	0.79	<2	2
M012016		19.9	10	2	0.04	10	0.44	1840	2	0.03	114	1270	13	0.59	<2	8
M012017		30.7	<10	3	0.04	<10	0.12	589	1	0.02	129	3910	23	>10.0	<2	2
M012018A		46.4	10	2	0.03	<10	0.53	806	4	0.03	69	690	62	1.86	7	2
M012018B		47.0	10	4	0.02	<10	0.46	818	3	0.02	52	790	52	2.00	<2	2
M012019		4.95	10	1	0.10	10	3.81	509	<1	0.10	177	710	2	0.25	3	6
M012020		5.89	<10	<1	0.04	<10	0.49	1175	1	0.03	28	1240	2	1.62	<2	1

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Project: ARN

Finalized Date: 27-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04054689

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012009		20	0.03	<10	<10	48	<10	13
M012010		63	0.02	<10	<10	120	<10	56
M012011		121	0.02	<10	<10	37	10	30
M012012		43	0.02	<10	<10	70	<10	61
M012013		95	0.01	<10	<10	93	<10	49
M012014		29	0.07	10	<10	56	<10	174
M012015		27	0.04	<10	<10	35	<10	10
M012016		28	0.05	10	<10	70	<10	46
M012017		10	0.02	10	10	23	10	125
M012018A		36	0.04	20	10	48	<10	65
M012018B		37	0.03	20	<10	47	10	56
M012019		84	0.20	<10	<10	155	<10	44
M012020		69	0.03	<10	<10	20	<10	60

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Finalized Date: AUG-2004
Account: RCM

CERTIFICATE VA04048680

Project: Arn-22

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
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Project: Arn-22

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048680

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
M012965		2.80	0.107	<0.2	1.49	7	10	30	<0.5	<2	0.74	<0.5	21	26	2760	7.07
M012966		3.16	0.011	<0.2	2.66	2	<10	20	<0.5	<2	1.54	<0.5	15	10	2350	6.57
M012967		3.12	<0.005	<0.2	1.38	<2	10	30	<0.5	<2	1.18	0.8	42	119	2450	7.60
M012968		1.52	<0.005	<0.2	3.91	16	10	50	0.6	<2	2.23	<0.5	21	44	169	3.04

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Project: Arn-22

Finalized Date: 8-AUG-2004
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CERTIFICATE OF ANALYSIS VA04048680

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012965		<10	<1	0.15	10	0.25	386	1	0.03	27	1480	<2	0.05	<2	11	36
M012966		10	1	0.15	10	0.53	340	1	0.05	26	1240	2	0.16	<2	11	72
M012967		<10	<1	0.12	10	0.68	860	<1	0.02	102	770	<2	0.14	<2	20	33
M012968		10	<1	0.24	10	1.01	398	<1	0.18	37	880	22	0.22	<2	7	79

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Project: Arn-22

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048680

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012965		0.02	<10	<10	89	<10	114
M012966		0.04	<10	<10	120	<10	102
M012967		0.01	<10	<10	118	<10	190
M012968		0.14	<10	<10	101	<10	53

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CERTIFICATE VA04048659

Project: Arn-17

P.O. No.:

This report is for 5 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
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Project: Arn-17

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048659

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012907		1.16	<0.005	<0.2	2.15	3	<10	20	<0.5	<2	1.75	<0.5	13	32	69	3.27
M012908		1.94	<0.005	<0.2	2.29	6	<10	30	<0.5	<2	1.79	<0.5	13	23	45	2.98
M012909		3.72	<0.005	0.2	1.96	<2	<10	30	<0.5	<2	1.60	<0.5	13	25	74	2.71
M012910		2.32	0.088	0.2	2.69	3	<10	30	<0.5	<2	2.51	<0.5	16	44	98	3.46
M012911		1.82	0.013	<0.2	2.64	2	<10	30	<0.5	<2	2.48	<0.5	12	22	69	2.66

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Project: Arn-17

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048659

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012907		10	<1	0.11	10	0.81	523	1	0.14	17	1160	<2	0.05	<2	6	70
M012908		10	<1	0.14	10	0.85	476	<1	0.18	18	1160	<2	0.05	2	6	85
M012909		10	<1	0.12	10	0.86	402	<1	0.12	16	1080	<2	0.08	<2	4	72
M012910		10	1	0.20	10	0.87	548	1	0.23	27	1080	<2	0.09	3	6	108
M012911		10	<1	0.13	10	0.74	422	1	0.23	17	1240	<2	0.09	<2	5	111

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Project: Arn-17

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CERTIFICATE OF ANALYSIS VA04048659

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012907		0.17	<10	<10	102	<10	40
M012908		0.18	<10	<10	101	10	34
M012909		0.16	<10	<10	98	<10	33
M012910		0.19	<10	<10	102	<10	35
M012911		0.15	<10	<10	91	<10	31

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CERTIFICATE VA04048658

Project: Arn-21

P.O. No.:

This report is for 30 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
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Project: Arn-21

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048658

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012935		4.94	<0.005	<0.2	3.22	3	10	10	0.5	<2	6.80	<0.5	10	17	77	6.04
M012936		2.44	<0.005	0.2	3.81	2	10	20	<0.5	<2	4.92	<0.5	9	19	97	2.96
M012937		4.86	0.005	<0.2	2.85	<2	10	10	<0.5	<2	4.16	<0.5	9	11	92	2.56
M012938		3.54	0.017	0.2	2.70	2	10	10	<0.5	<2	4.02	<0.5	11	12	33	3.91
M012939		4.94	0.008	<0.2	0.35	4	30	10	<0.5	<2	>25.0	<0.5	5	10	83	1.08
M012940		5.40	0.063	0.7	0.35	27	70	10	<0.5	<2	>25.0	<0.5	14	12	1120	3.17
M012941		2.70	<0.005	0.2	0.42	6	20	60	<0.5	<2	23.2	<0.5	<1	8	78	0.51
M012942		3.42	0.169	0.5	2.08	13	10	10	<0.5	<2	7.43	<0.5	23	21	1080	6.10
M012943		4.70	0.076	<0.2	3.54	18	10	10	0.6	<2	4.88	<0.5	17	43	100	3.95
M012944		5.54	0.025	<0.2	3.82	4	10	10	0.5	<2	5.14	<0.5	24	44	146	4.41
M012945		5.34	0.007	<0.2	3.84	7	10	10	0.5	<2	5.13	<0.5	19	29	106	4.57
M012946		5.68	0.013	<0.2	4.48	7	10	10	0.6	<2	5.59	<0.5	20	33	210	4.66
M012947		6.04	0.017	<0.2	4.12	13	10	10	0.5	<2	5.22	<0.5	17	23	142	4.06
M012948		4.64	0.019	<0.2	3.88	4	10	20	<0.5	<2	4.26	<0.5	19	35	102	3.75
M012949		5.64	0.006	<0.2	3.58	18	10	10	<0.5	<2	5.07	<0.5	23	44	209	4.65
M012950		4.88	<0.005	<0.2	3.23	3	10	20	<0.5	<2	3.84	<0.5	16	38	73	3.45
M012951		6.30	0.007	<0.2	2.91	<2	10	10	0.5	<2	4.14	<0.5	20	42	153	3.91
M012952		6.04	<0.005	<0.2	2.18	6	10	10	0.5	<2	4.71	<0.5	10	20	34	2.42
M012953		4.80	0.017	<0.2	1.70	10	10	20	<0.5	<2	3.23	<0.5	18	24	118	3.72
M012954		4.86	0.016	<0.2	1.69	10	10	10	<0.5	<2	3.22	<0.5	18	23	36	4.30
M012955		2.98	0.080	0.3	1.81	6	40	10	<0.5	<2	8.68	<0.5	37	197	89	6.55
M012956		3.58	0.037	<0.2	1.70	4	40	10	<0.5	<2	11.85	<0.5	38	187	98	6.16
M012957		3.86	<0.005	<0.2	3.45	5	20	20	<0.5	<2	4.92	<0.5	23	130	53	3.63
M012958		5.30	<0.005	<0.2	3.16	2	20	30	<0.5	<2	3.91	<0.5	15	61	15	3.29
M012959		4.88	0.005	<0.2	3.18	6	10	20	0.5	<2	4.69	<0.5	11	29	24	3.15
M012960		4.84	<0.005	<0.2	2.96	3	10	30	<0.5	<2	3.28	<0.5	13	49	40	3.13
M012961		2.82	<0.005	<0.2	0.32	8	10	30	<0.5	<2	22.9	<0.5	1	9	59	0.36
M012962		5.60	0.008	<0.2	3.04	<2	10	40	<0.5	<2	2.84	<0.5	16	54	84	3.31
M012963		4.36	<0.005	<0.2	3.08	<2	10	30	<0.5	<2	2.88	<0.5	16	52	31	3.59
M012964		3.82	<0.005	<0.2	3.67	5	10	30	<0.5	<2	3.85	<0.5	15	57	10	3.57

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Project: Arn-21

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048658

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012935		10	<1	0.08	10	0.95	1895	1	0.15	10	1180	7	0.17	<2	5	152
M012936		10	<1	0.14	10	0.63	807	1	0.33	7	1410	6	0.31	<2	3	262
M012937		10	<1	0.07	10	0.82	609	1	0.10	6	1360	6	0.20	<2	3	82
M012938		10	<1	0.09	10	0.99	874	1	0.08	6	1400	4	0.12	<2	4	52
M012939		<10	<1	0.01	10	0.29	612	2	0.03	11	950	2	<0.01	3	<1	552
M012940		<10	<1	0.02	10	0.41	1295	1	0.04	14	830	8	0.8	<2	1	359
M012941		<10	<1	0.06	<10	9.98	152	1	0.04	4	280	7	<0.01	3	1	448
M012942		10	<1	0.05	10	1.01	1585	1	0.05	16	1480	2	0.81	<2	6	80
M012943		10	<1	0.11	10	1.28	825	1	0.09	30	1310	8	0.13	<2	10	93
M012944		10	1	0.10	10	1.86	771	1	0.04	37	1320	<2	0.34	<2	11	81
M012945		10	1	0.09	10	1.80	815	1	0.06	25	1380	<2	0.19	<2	10	98
M012946		10	<1	0.09	10	1.48	810	2	0.07	24	1120	<2	0.31	<2	9	87
M012947		10	<1	0.11	10	1.44	808	8	0.09	18	1340	3	0.23	2	8	128
M012948		10	<1	0.12	10	1.52	730	21	0.10	26	1380	<2	0.27	4	8	132
M012949		10	<1	0.10	10	2.10	940	4	0.08	41	1280	2	0.47	<2	12	126
M012950		10	<1	0.16	10	1.40	676	4	0.11	27	1380	<2	0.19	4	6	137
M012951		10	<1	0.07	10	1.62	760	1	0.05	36	1410	<2	0.78	3	10	89
M012952		10	<1	0.07	10	1.00	694	<1	0.05	16	1270	2	0.16	<2	10	68
M012953		<10	<1	0.07	10	1.02	966	7	0.06	30	1280	3	0.15	3	15	77
M012954		<10	<1	0.08	10	1.13	1040	6	0.06	55	1470	4	0.20	2	14	120
M012955		<10	<1	0.08	10	2.48	1270	2	0.02	166	670	3	0.25	<2	22	128
M012956		<10	1	0.08	10	2.00	1550	1	0.02	146	660	4	0.36	<2	22	140
M012957		10	2	0.10	<10	2.34	663	<1	0.14	99	930	<2	0.05	<2	11	123
M012958		10	<1	0.22	10	1.56	520	<1	0.13	30	1050	<2	0.04	<2	7	119
M012959		10	1	0.15	10	1.02	521	<1	0.09	17	1300	<2	0.05	<2	7	97
M012960		10	<1	0.22	10	1.28	420	<1	0.12	20	1260	<2	0.04	<2	7	79
M012961		<10	<1	0.04	<10	10.20	130	<1	0.02	8	230	4	<0.01	<2	1	316
M012962		10	1	0.31	10	1.62	419	<1	0.19	28	1080	<2	0.05	<2	7	133
M012963		10	<1	0.28	10	1.69	472	<1	0.16	32	1080	<2	0.04	<2	7	123
M012964		10	<1	0.25	10	1.69	521	<1	0.15	31	1090	<2	0.07	<2	8	122

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Project: Arn-21

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048658

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012935		0.05	<10	<10	73	<10	68
M012936		0.10	<10	<10	60	<10	41
M012937		0.08	<10	<10	65	<10	39
M012938		0.09	<10	<10	71	<10	44
M012939		0.01	<10	<10	4	<10	69
M012940		0.01	<10	<10	8	<10	61
M012941		0.02	<10	<10	9	<10	21
M012942		0.05	<10	<10	74	<10	73
M012943		0.13	<10	<10	126	<10	51
M012944		0.21	<10	<10	161	<10	64
M012945		0.25	<10	<10	169	<10	65
M012946		0.26	<10	<10	178	<10	58
M012947		0.26	<10	<10	165	<10	55
M012948		0.21	<10	<10	134	10	55
M012949		0.17	<10	<10	161	<10	60
M012950		0.19	<10	<10	121	<10	58
M012951		0.14	<10	<10	122	<10	120
M012952		0.13	<10	<10	107	<10	38
M012953		0.05	<10	<10	124	<10	107
M012954		0.03	<10	<10	107	<10	74
M012955		<0.01	<10	<10	128	<10	66
M012956		<0.01	<10	<10	119	<10	71
M012957		0.22	<10	<10	133	<10	51
M012958		0.30	<10	<10	152	<10	42
M012959		0.25	<10	<10	152	<10	35
M012960		0.31	<10	<10	168	<10	38
M012961		0.02	<10	<10	9	<10	8
M012962		0.31	<10	<10	144	<10	42
M012963		0.32	<10	<10	157	<10	53
M012964		0.32	<10	<10	173	<10	48

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Finalized Date: 5-AUG-2004
Account: RCM

CERTIFICATE VA04048657

Project: Arn-20

P.O. No.:

This report is for 18 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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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:

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Project: Arn-20

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048657

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012917		4.62	0.006	<0.2	2.52	12	10	10	<0.5	<2	4.97	<0.5	12	9	63	3.35
M012918		4.64	0.050	<0.2	3.10	15	10	10	<0.5	<2	6.52	<0.5	10	11	103	4.49
M012919		4.72	0.258	0.2	2.77	10	10	10	<0.5	<2	3.30	<0.5	17	14	205	4.05
M012920		4.12	0.016	<0.2	2.67	6	10	10	<0.5	<2	3.10	<0.5	16	16	128	4.12
M012921		3.88	<0.005	0.5	0.38	<2	10	40	<0.5	2	24.2	<0.5	<1	8	184	0.37
M012922		3.86	3.63	0.9	1.35	11	20	10	<0.5	3	10.60	<0.5	48	13	987	6.74
M012923		4.00	0.032	<0.2	3.55	<2	40	10	<0.5	<2	6.02	<0.5	6	5	17	2.99
M012924		1.44	0.061	0.2	1.52	3	<10	10	<0.5	<2	9.11	<0.5	9	10	53	4.09
M012925		4.60	0.030	<0.2	3.03	6	10	10	<0.5	<2	5.24	<0.5	16	20	116	3.87
M012926		4.54	0.008	<0.2	2.89	<2	10	10	<0.5	<2	4.06	<0.5	18	23	98	4.12
M012927		2.24	0.015	0.2	2.59	5	10	<10	<0.5	<2	13.35	<0.5	7	13	132	6.10
M012928		4.32	0.005	0.2	2.82	3	10	10	<0.5	<2	4.00	<0.5	19	48	102	3.87
M012929		4.58	0.007	0.2	2.73	5	10	10	<0.5	<2	3.97	<0.5	21	53	160	4.11
M012930		4.18	0.007	<0.2	2.44	3	10	10	<0.5	<2	4.74	<0.5	16	32	68	3.57
M012931		3.22	0.036	0.2	2.69	3	10	10	<0.5	<2	5.16	<0.5	14	33	236	3.44
M012932		2.18	0.025	0.2	1.92	11	40	10	<0.5	<2	8.64	<0.5	29	177	81	5.82
M012933		3.62	0.048	0.4	1.14	39	50	10	<0.5	<2	9.54	<0.5	32	91	122	5.93
M012934		4.94	0.014	0.2	2.54	2	20	50	<0.5	<2	3.26	<0.5	19	70	218	5.59

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Project: Arn-20

Finalized Date: 8-AUG-2004
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CERTIFICATE OF ANALYSIS VA04048657

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M012917		10	<1	0.06	10	1.00	712	1	0.08	7	1230	14	0.12	<2	7	77
M012918		10	<1	0.11	10	1.04	1010	2	0.13	7	1340	5	0.59	3	3	130
M012919		10	<1	0.11	10	1.31	768	1	0.09	11	1220	6	0.08	<2	4	66
M012920		10	<1	0.12	10	1.22	772	1	0.11	13	1170	2	0.06	<2	5	63
M012921		<10	<1	0.05	<10	10.70	140	1	0.04	3	270	5	<0.01	<2	1	340
M012922		10	<1	0.07	10	0.57	1465	1	0.06	27	1380	<2	1.78	<2	1	80
M012923		10	<1	0.13	10	0.73	932	16	0.18	5	1380	6	0.06	<2	3	167
M012924		10	<1	0.08	10	0.62	1025	4	0.07	5	1250	2	0.23	3	2	138
M012925		10	<1	0.11	10	0.93	1000	2	0.12	30	1230	7	0.39	<2	7	109
M012926		10	<1	0.08	10	1.63	921	1	0.10	31	1000	2	0.28	<2	7	114
M012927		10	<1	0.02	<10	0.88	1565	1	0.03	6	1210	4	0.25	<2	3	82
M012928		10	<1	0.09	10	1.42	771	1	0.10	29	1400	5	0.31	<2	8	84
M012929		10	<1	0.07	10	1.74	812	1	0.06	32	1110	11	0.32	<2	6	90
M012930		10	<1	0.06	10	1.53	979	5	0.05	22	1000	8	0.18	<2	7	116
M012931		10	<1	0.10	10	1.34	916	6	0.06	26	940	4	0.18	<2	6	114
M012932		<10	1	0.11	10	3.48	1470	1	0.04	141	630	4	0.55	<2	18	171
M012933		<10	<1	0.08	10	2.84	1735	<1	0.04	104	660	6	0.50	<2	21	160
M012934		10	<1	0.26	<10	1.32	845	<1	0.18	41	920	<2	0.17	<2	13	111

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Project: Arn-20

Finalized Date: 8-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048657

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012917		0.07	<10	<10	108	<10	56
M012918		0.08	<10	<10	53	<10	52
M012919		0.16	<10	<10	98	<10	51
M012920		0.17	<10	<10	112	<10	55
M012921		0.02	<10	<10	10	<10	20
M012922		0.04	<10	<10	29	<10	62
M012923		0.08	<10	<10	63	<10	52
M012924		0.07	<10	<10	40	<10	74
M012925		0.10	<10	<10	96	<10	62
M012926		0.12	<10	<10	112	<10	67
M012927		0.05	<10	<10	61	<10	43
M012928		0.16	<10	<10	125	<10	59
M012929		0.20	<10	<10	138	<10	71
M012930		0.11	<10	<10	93	<10	52
M012931		0.14	<10	<10	90	<10	49
M012932		<0.01	<10	<10	106	<10	67
M012933		<0.01	<10	<10	93	<10	69
M012934		0.19	<10	<10	101	<10	59

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CERTIFICATE VA04048656

Project: Arn-16

P.O. No.:

This report is for 53 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Project: Arn-16

Finalized Date: 9-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012854		2.48	0.227		<0.2	0.39	19	<10	<10	0.8	<2	3.87	<0.5	23	48	66
M012855		2.26	0.020		<0.2	0.84	17	10	10	0.5	<2	2.63	<0.5	42	43	49
M012856		4.68	0.722		<0.2	3.07	6	10	10	<0.5	<2	6.95	<0.5	14	13	344
M012857		1.92	0.033		0.9	2.37	17	<10	10	<0.5	<2	11.65	<0.5	21	34	1940
M012858		4.32	0.006		<0.2	2.91	36	10	10	<0.5	<2	3.91	<0.5	20	41	242
M012859		1.92	0.833		2.6	0.69	12	<10	10	<0.5	<2	0.97	<0.5	315	59	8340
M012860		2.14	>10.0	66.3	12.2	0.48	14	10	<10	<0.5	<2	1.59	0.5	597	43	9240
M012861		3.58	0.015		<0.2	0.31	8	10	30	<0.5	<2	22.6	<0.5	2	15	132
M012862		1.72	3.91		0.3	3.33	18	10	10	<0.5	<2	4.95	<0.5	45	34	832
M012863		0.88	0.361		1.1	1.73	43	<10	<10	<0.5	<2	6.22	<0.5	336	110	4410
M012864		1.58	0.023		<0.2	3.02	16	10	10	<0.5	<2	3.16	<0.5	25	24	334
M012865		1.70	0.482		0.6	0.80	16	10	<10	<0.5	<2	3.37	<0.5	253	55	2990
M012866		2.44	0.103		<0.2	2.69	6	<10	20	<0.5	<2	3.57	<0.5	24	124	301
M012867		2.46	0.986		5.5	1.31	5	<10	20	<0.5	<2	5.69	2.7	66	36	>10000
M012868		3.08	0.018		<0.2	2.93	21	<10	<10	<0.5	<2	4.38	<0.5	17	125	86
M012869		3.80	0.024		<0.2	2.64	2	<10	10	<0.5	<2	3.28	<0.5	24	75	382
M012870		1.32	0.071		1.1	0.51	14	<10	<10	<0.5	2	3.37	0.5	166	52	3620
M012871		1.26	0.111		0.3	1.53	9	<10	10	<0.5	<2	13.40	<0.5	47	50	975
M012872		3.68	0.032		<0.2	2.82	13	<10	10	<0.5	<2	5.92	<0.5	29	27	462
M012873		4.84	0.036		<0.2	2.71	<2	<10	20	<0.5	<2	3.94	<0.5	15	36	218
M012874		4.50	0.019		<0.2	2.30	5	<10	10	<0.5	<2	3.42	<0.5	16	28	144
M012875		5.00	0.011		<0.2	2.78	8	<10	20	<0.5	<2	4.97	<0.5	19	15	132
M012876		1.28	0.190		0.9	1.85	106	<10	10	<0.5	<2	9.91	<0.5	94	81	1710
M012877		3.70	0.017		<0.2	3.08	14	10	10	<0.5	<2	6.99	<0.5	20	110	35
M012878		1.00	0.245		0.4	1.37	30	<10	60	<0.5	<2	15.1	<0.5	39	57	698
M012879		1.62	0.051		0.2	0.80	8	20	10	<0.5	<2	12.05	<0.5	24	95	60
M012880		0.86	0.263		1.2	0.52	79	<10	70	<0.5	<2	4.55	<0.5	84	22	2070
M012881		3.44	<0.005		0.3	0.23	12	10	20	<0.5	<2	23.7	<0.5	<1	10	44
M012882		2.98	0.045		0.2	3.80	13	10	80	<0.5	<2	5.70	<0.5	24	187	339
M012883		3.68	0.012		<0.2	3.87	<2	10	10	<0.5	<2	4.77	<0.5	8	43	77
M012884		5.46	0.045		<0.2	3.14	5	10	20	<0.5	<2	2.96	<0.5	15	43	126
M012885		6.46	0.011		<0.2	3.41	<2	10	70	<0.5	<2	2.61	<0.5	22	92	20
M012886		6.40	0.013		<0.2	2.93	<2	<10	50	<0.5	<2	2.71	<0.5	22	87	139
M012887		5.96	<0.005		<0.2	3.10	<2	<10	70	<0.5	<2	3.21	<0.5	21	72	48
M012888		6.10	0.005		<0.2	2.96	6	<10	60	<0.5	<2	2.79	<0.5	22	73	78
M012889		6.30	<0.005		<0.2	2.48	2	<10	110	<0.5	<2	1.63	<0.5	21	62	52
M012890		5.92	0.044		<0.2	2.05	<2	<10	60	<0.5	<2	2.11	<0.5	15	75	82
M012891		5.50	0.076		<0.2	2.09	4	<10	90	<0.5	<2	2.28	<0.5	16	37	18
M012892		6.26	<0.005		<0.2	2.57	<2	<10	100	<0.5	<2	1.69	<0.5	18	63	14
M012893		6.68	<0.005		<0.2	2.45	2	<10	80	<0.5	<2	1.79	<0.5	19	50	15

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Project: Arn-16

CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
M012854		31.5	<10	3	0.02	20	1.92	6250	3	0.05	124	1240	10	0.25	<2	70
M012855		17.6	<10	3	0.05	10	1.22	3620	<1	0.07	225	1380	6	0.55	<2	28
M012856		4.22	10	2	0.12	<10	0.79	1115	<1	0.12	17	720	<2	0.18	3	8
M012857		18.6	10	1	0.09	<10	0.85	2120	<1	0.04	26	650	3	0.84	<2	5
M012858		5.95	10	1	0.16	10	0.78	1110	1	0.16	28	1380	<2	0.54	<2	11
M012859		49.6	<10	1	0.11	<10	0.21	591	2	0.06	71	840	15	>10.0	<2	3
M012860		33.9	<10	2	0.04	<10	0.13	651	<1	0.02	134	1560	3	>10.0	<2	2
M012861		0.44	<10	<1	0.04	<10	10.15	152	<1	0.02	5	230	<2	<0.01	<2	<1
M012862		7.83	10	1	0.14	<10	0.55	1105	1	0.11	11	900	<2	1.23	2	5
M012863		24.7	<10	<1	0.04	<10	0.25	1315	2	0.02	82	670	6	>10.0	<2	5
M012864		7.98	10	<1	0.17	10	0.53	1105	1	0.12	10	1110	<2	0.33	<2	8
M012865		27.4	<10	1	0.04	<10	0.18	988	1	0.02	69	870	<2	>10.0	<2	3
M012866		9.60	10	<1	0.32	<10	1.15	1140	<1	0.19	22	680	2	0.61	<2	7
M012867		17.4	10	1	0.09	<10	0.60	1545	<1	0.05	45	620	<2	7.41	<2	1
M012868		7.40	10	<1	0.06	<10	1.86	1485	1	0.05	84	700	<2	0.19	<2	8
M012869		9.82	10	<1	0.08	<10	1.14	1470	1	0.07	19	1310	<2	1.44	<2	4
M012870		30.6	<10	<1	0.05	<10	0.28	1290	<1	0.04	26	2270	12	>10.0	<2	4
M012871		12.35	10	2	0.18	10	0.42	1970	<1	0.13	9	3140	2	4.98	<2	6
M012872		6.57	10	<1	0.16	10	0.64	1415	1	0.14	24	1540	2	1.11	2	6
M012873		4.53	10	<1	0.14	10	0.83	878	3	0.11	16	1610	<2	0.35	<2	4
M012874		5.51	10	1	0.12	10	0.96	1000	1	0.09	13	1360	<2	0.08	<2	4
M012875		8.56	10	<1	0.25	10	0.96	1490	11	0.17	6	770	2	0.65	<2	4
M012876		21.3	10	2	0.02	<10	1.24	1705	1	0.02	34	1120	25	4.76	<2	3
M012877		5.80	10	<1	0.06	<10	2.52	1310	<1	0.05	91	680	<2	0.23	<2	10
M012878		16.0	<10	<1	0.04	<10	0.79	1480	<1	0.02	33	670	46	2.45	<2	5
M012879		6.03	<10	1	0.07	<10	5.06	1875	<1	0.02	83	270	5	0.29	<2	13
M012880		>50	10	2	0.02	<10	0.63	904	2	0.01	86	690	28	3.60	<2	2
M012881		0.25	<10	<1	0.03	<10	10.55	107	1	0.02	6	220	2	<0.01	<2	<1
M012882		6.45	10	1	0.17	<10	1.60	801	<1	0.20	108	310	<2	0.45	3	14
M012883		1.72	10	<1	0.10	<10	0.95	350	<1	0.25	30	790	<2	0.08	<2	6
M012884		2.74	10	<1	0.23	<10	1.40	316	<1	0.21	28	770	<2	0.09	2	7
M012885		4.15	10	<1	0.65	<10	2.18	364	<1	0.13	46	760	<2	0.02	<2	7
M012886		3.82	10	<1	0.39	<10	1.50	371	<1	0.16	55	710	<2	0.16	<2	6
M012887		4.29	10	1	0.39	10	1.56	472	<1	0.11	34	1080	<2	0.08	2	7
M012888		4.15	10	1	0.54	<10	1.80	436	<1	0.14	44	760	<2	0.11	<2	7
M012889		3.80	10	<1	0.90	<10	1.78	328	<1	0.10	40	800	<2	0.05	<2	5
M012890		3.21	10	<1	0.38	10	1.39	307	1	0.09	27	1030	<2	0.04	2	5
M012891		3.19	<10	<1	0.55	<10	1.26	325	<1	0.08	28	870	<2	0.02	<2	6
M012892		3.39	10	1	0.91	<10	1.48	310	<1	0.18	38	790	<2	0.01	<2	5
M012893		3.55	10	<1	0.97	10	1.66	313	1	0.11	36	930	<2	0.01	<2	7

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Project: Arn-16

Finalized Date: 9-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012854		29	<0.01	<10	<10	332	<10	159	
M012855		31	0.01	<10	<10	143	<10	109	
M012856		130	0.10	<10	<10	92	<10	66	
M012857		103	0.06	10	<10	81	10	86	
M012858		86	0.09	<10	<10	96	<10	112	
M012859		9	0.03	<10	<10	35	<10	172	
M012860		7	0.03	<10	<10	27	<10	148	
M012861		312	0.02	<10	<10	9	<10	9	
M012862		133	0.14	<10	<10	87	<10	50	
M012863		13	0.08	<10	<10	54	<10	92	
M012864		63	0.16	<10	<10	133	10	58	
M012865		9	0.04	<10	<10	34	<10	76	
M012866		53	0.11	<10	<10	78	<10	64	
M012867		38	0.02	<10	<10	23	<10	372	1.53
M012868		55	0.09	<10	<10	106	<10	90	
M012869		34	0.10	<10	<10	76	<10	76	
M012870		16	0.03	<10	<10	30	<10	72	
M012871		79	0.06	<10	<10	45	<10	51	
M012872		109	0.10	<10	<10	93	<10	131	
M012873		130	0.15	<10	<10	84	<10	59	
M012874		72	0.16	<10	<10	94	<10	51	
M012875		72	0.10	<10	<10	57	<10	62	
M012876		84	0.04	<10	<10	48	<10	82	
M012877		152	0.09	<10	<10	100	10	69	
M012878		117	0.05	<10	<10	55	<10	49	
M012879		142	<0.01	<10	<10	66	<10	49	
M012880		44	0.02	<10	<10	45	<10	90	
M012881		338	0.01	<10	<10	8	<10	10	
M012882		246	0.20	<10	<10	154	<10	57	
M012883		252	0.17	<10	<10	82	<10	31	
M012884		144	0.21	<10	<10	119	<10	37	
M012885		97	0.34	<10	<10	212	<10	49	
M012886		80	0.27	<10	<10	171	<10	40	
M012887		87	0.29	<10	<10	152	10	46	
M012888		73	0.27	<10	<10	157	<10	43	
M012889		49	0.35	<10	<10	159	<10	42	
M012890		40	0.27	<10	<10	130	<10	33	
M012891		63	0.30	<10	<10	150	<10	35	
M012892		58	0.31	<10	<10	158	<10	37	
M012893		39	0.33	<10	<10	177	<10	37	

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Project: Arn-16

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CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012894		4.90	<0.005		<0.2	2.69	<2	<10	260	<0.5	<2	1.72	<0.5	22	77	7
M012895		6.78	<0.005		<0.2	2.38	<2	<10	60	<0.5	<2	2.02	<0.5	20	57	26
M012896		6.10	<0.005		<0.2	2.36	<2	<10	80	<0.5	<2	1.75	<0.5	21	52	18
M012897		6.46	0.007		<0.2	2.22	4	<10	50	<0.5	<2	2.07	<0.5	18	33	81
M012898		5.84	0.037		<0.2	3.05	2	10	20	<0.5	<2	2.90	<0.5	28	140	124
M012899		5.26	0.006		<0.2	3.64	<2	<10	10	<0.5	<2	2.19	<0.5	39	319	124
M012900		3.64	<0.005		0.2	0.38	<2	10	30	<0.5	<2	23.8	<0.5	<1	11	24
M012901		4.84	0.008		<0.2	3.30	<2	10	10	<0.5	<2	2.63	<0.5	31	208	130
M012902		6.14	0.019		<0.2	1.62	<2	<10	80	<0.5	<2	2.07	<0.5	17	49	290
M012903		5.24	0.007		<0.2	1.43	<2	<10	40	<0.5	<2	1.76	<0.5	18	74	156
M012904		6.14	0.010		0.2	1.98	<2	<10	50	<0.5	<2	1.74	<0.5	23	55	146
M012905		5.26	0.005		<0.2	2.07	<2	10	20	<0.5	<2	2.34	<0.5	12	10	52
M012906		5.60	0.006		0.2	2.59	<2	10	30	<0.5	<2	2.32	<0.5	13	25	52

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CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
M012894		4.30	10	<1	1.10	<10	2.09	390	<1	0.11	44	820	<2	0.01	<2	7
M012895		4.16	10	<1	0.71	<10	1.87	392	<1	0.06	36	900	<2	0.05	2	6
M012896		4.33	10	1	0.63	10	1.58	387	<1	0.08	33	1030	<2	0.02	<2	7
M012897		3.88	10	<1	0.38	10	1.32	387	<1	0.10	24	1020	<2	0.04	<2	7
M012898		4.66	10	<1	0.13	<10	2.87	560	1	0.14	114	740	4	0.29	<2	7
M012899		4.63	10	<1	0.06	<10	5.18	551	<1	0.11	265	460	2	0.05	<2	4
M012900		0.41	<10	<1	0.03	10	10.20	149	<1	0.05	3	260	7	<0.01	<2	1
M012901		4.58	10	<1	0.09	10	3.84	511	<1	0.11	170	690	2	0.27	<2	6
M012902		4.34	10	<1	0.35	10	1.16	383	<1	0.16	20	1240	<2	0.25	<2	7
M012903		3.02	10	<1	0.27	10	1.19	327	<1	0.12	44	1040	2	0.43	<2	5
M012904		4.13	10	1	0.27	10	1.24	309	<1	0.17	34	970	<2	0.84	<2	5
M012905		3.74	10	<1	0.17	10	1.00	311	<1	0.13	2	930	2	0.28	<2	3
M012906		4.01	10	<1	0.23	10	1.08	333	<1	0.20	11	1260	2	0.15	<2	5

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CERTIFICATE OF ANALYSIS VA04048656

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012894		41	0.39	<10	<10	204	<10	48	
M012895		40	0.34	<10	<10	173	<10	47	
M012896		44	0.36	<10	<10	177	<10	44	
M012897		40	0.34	<10	<10	160	<10	47	
M012898		93	0.24	<10	<10	156	<10	48	
M012899		83	0.17	<10	<10	123	<10	52	
M012900		340	0.02	<10	<10	11	<10	21	
M012901		84	0.19	<10	<10	144	<10	45	
M012902		57	0.24	<10	<10	197	<10	40	
M012903		40	0.20	<10	<10	120	<10	26	
M012904		62	0.24	<10	<10	161	<10	29	
M012905		69	0.09	<10	<10	79	<10	24	
M012906		104	0.19	<10	<10	137	<10	33	

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Finalized Date: AUG-2004
Account: RCM

CERTIFICATE VA04048655

Project: Arn

P.O. No.:

This report is for 13 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Signature:

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Project: Arn

Finalized Date: 9-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048655

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012969		3.76	6.02	40.6	0.55	<2	<10	<10	<0.5	16	2.50	2.6	253	24	>10000	26.1
M012970		4.18	1.965	20.7	1.02	5	<10	<10	<0.5	3	7.17	3.7	103	18	>10000	10.95
M012971		3.80	2.11	30.0	1.40	20	<10	10	<0.5	11	2.84	<0.5	22	23	5650	17.7
M012972		3.30	0.238	0.5	1.24	3	<10	10	<0.5	<2	0.70	<0.5	12	46	1715	37.2
M012973		2.58	0.035	0.2	2.65	<2	10	10	<0.5	<2	2.03	<0.5	7	19	228	1.64
M012974		3.74	0.147	<0.2	2.86	6	<10	20	<0.5	<2	2.50	<0.5	47	12	644	16.0
M012975		3.54	0.054	<0.2	3.40	<2	10	10	<0.5	<2	3.11	<0.5	19	34	1370	4.60
M012976		3.50	0.330	<0.2	1.57	<2	<10	10	<0.5	<2	1.01	<0.5	8	12	652	9.66
M012977		3.26	0.412	2.7	2.72	8	<10	10	<0.5	<2	2.08	<0.5	42	17	1500	17.6
M012978		3.70	0.021	<0.2	2.31	4	<10	10	<0.5	<2	1.63	<0.5	9	31	236	6.02
M012288		2.04	0.006	<0.2	1.47	2	10	30	<0.5	<2	1.72	<0.5	10	9	51	2.07
M012289		1.72	0.013	<0.2	2.22	2	<10	40	<0.5	<2	1.67	<0.5	19	50	176	4.01
M012290		1.60	<0.005	<0.2	2.05	3	<10	60	<0.5	<2	1.55	<0.5	20	69	106	3.48

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Finalized Date: 9-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048655

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M012969		<10	1	0.02	<10	0.07	598	<1	<0.01	136	610	5	>10.0	<2	2	5
M012970		<10	<1	0.04	<10	0.21	978	<1	0.02	52	970	<2	5.31	<2	3	34
M012971		<10	2	0.08	<10	0.27	557	1	0.06	30	920	3	3.28	<2	3	62
M012972		10	1	0.10	<10	0.37	377	<1	0.07	15	990	8	0.45	<2	5	13
M012973		10	<1	0.10	10	0.26	188	<1	0.27	4	1160	2	0.06	2	2	148
M012974		10	1	0.15	10	0.81	1510	1	0.09	11	1560	3	0.18	<2	7	48
M012975		10	<1	0.13	10	0.60	725	1	0.20	13	1340	<2	0.15	<2	4	158
M012976		10	<1	0.11	10	0.51	456	1	0.06	8	1540	<2	0.19	<2	3	21
M012977		10	<1	0.10	<10	0.29	192	<1	0.22	9	1400	3	1.32	<2	3	102
M012978		10	1	0.09	10	0.52	209	<1	0.06	12	1220	<2	0.18	<2	5	50
M012288		10	<1	0.12	10	0.60	266	1	0.13	10	1330	2	0.07	2	3	65
M012289		10	<1	0.13	10	1.46	436	<1	0.16	32	1740	<2	0.10	<2	6	67
M012290		10	<1	0.14	10	1.73	402	<1	0.15	54	1410	<2	0.12	<2	6	65

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Project: Arn

Finalized Date: 9-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048655

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012969		0.03	<10	<10	23	<10	392	3.15
M012970		0.04	<10	<10	32	<10	508	2.88
M012971		0.05	<10	<10	43	<10	160	
M012972		0.17	<10	<10	96	<10	54	
M012973		0.15	<10	<10	43	<10	16	
M012974		0.12	<10	<10	98	10	70	
M012975		0.16	<10	<10	66	<10	52	
M012976		0.10	<10	<10	62	<10	27	
M012977		0.11	<10	<10	54	<10	24	
M012978		0.20	<10	<10	158	<10	22	
M012288		0.19	<10	<10	95	<10	24	
M012289		0.26	<10	<10	117	<10	37	
M012290		0.24	<10	<10	107	<10	35	

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CERTIFICATE VA04048530

Project: ARN
P.O. No.:
This report is for 8 Pulp samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2004.
The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

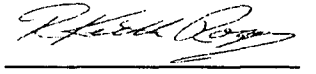
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
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Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04048530

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012001		0.34	0.463	<0.2	0.88	44	<10	60	<0.5	3	3.22	<0.5	36	21	303	44.7
M012002		0.32	0.082	<0.2	0.58	21	<10	10	<0.5	<2	14.15	<0.5	4	25	39	20.7
M012003		0.28	0.034	0.2	1.64	70	10	10	<0.5	<2	4.69	<0.5	64	23	385	6.59
M012004		0.24	0.268	0.2	0.81	25	10	10	<0.5	<2	1.26	<0.5	31	5	304	8.46
M012005		0.30	0.017	<0.2	4.73	<2	20	10	<0.5	<2	4.79	<0.5	6	5	38	2.06
M012006		0.12	0.041	0.7	4.20	<2	10	<10	<0.5	2	7.51	<0.5	84	13	2280	10.30
M012007		0.26	0.036	0.2	3.78	4	10	10	<0.5	<2	3.89	<0.5	12	25	187	3.10
M012008		0.24	0.024	<0.2	2.70	9	10	10	<0.5	<2	4.77	<0.5	8	26	171	3.23

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CERTIFICATE OF ANALYSIS VA04048530

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	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
M012001		<10	<1	0.27	<10	0.41	1455	2	0.09	7	1070	44	5.22	<2	3	43
M012002		10	<1	0.06	<10	0.42	1365	1	0.05	5	920	21	0.61	4	1	89
M012003		<10	<1	0.07	10	0.65	1375	3	0.06	50	1160	7	2.24	<2	11	51
M012004		<10	<1	0.05	10	0.45	1225	2	0.04	9	1420	7	1.14	<2	11	20
M012005		10	<1	0.07	10	0.36	415	<1	0.48	5	1060	12	0.11	<2	3	407
M012006		10	<1	0.03	<10	1.18	2100	<1	0.11	21	740	14	2.41	<2	7	146
M012007		10	1	0.14	10	0.83	648	4	0.16	21	900	7	0.11	<2	4	204
M012008		<10	<1	0.10	10	0.62	1035	11	0.11	24	930	7	0.10	<2	7	176

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CERTIFICATE OF ANALYSIS VA04048530

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012001		0.05	<10	10	164	<10	28
M012002		0.02	10	<10	25	<10	19
M012003		0.03	<10	<10	84	<10	66
M012004		0.03	<10	<10	72	<10	71
M012005		0.15	<10	<10	77	<10	32
M012006		0.14	<10	<10	122	<10	45
M012007		0.16	<10	<10	97	<10	44
M012008		0.05	<10	<10	59	<10	49

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Account: RCM

CERTIFICATE VA04046440

Project: ARN TR-04-001

P.O. No.:

This report is for 5 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Signature:

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Project: ARN TR-04-001

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046440

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012912		3.68	0.017	<0.2	2.78	6	10	10	<0.5	<2	2.64	<0.5	22	216	20	4.56
M012913		3.32	0.046	<0.2	1.10	<2	<10	10	<0.5	<2	7.71	<0.5	8	86	8	18.5
M012914		4.02	0.071	<0.2	0.95	17	10	10	<0.5	<2	4.35	<0.5	24	84	137	21.6
M012915		5.86	0.037	<0.2	0.70	9	<10	10	<0.5	<2	5.96	<0.5	16	28	555	25.6
M012916		4.60	0.016	<0.2	1.25	14	10	10	<0.5	<2	8.14	<0.5	20	38	292	17.2

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Project: ARN TR-04-001

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CERTIFICATE OF ANALYSIS VA04046440

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M012912		10	1	0.09	<10	2.39	877	<1	0.04	102	640	2	0.10	<2	10	46
M012913		<10	<1	0.06	<10	0.71	1425	1	0.04	37	550	<2	0.03	2	4	48
M012914		<10	1	0.06	10	0.43	2860	2	0.02	69	1850	<2	0.31	<2	15	39
M012915		<10	<1	0.07	<10	0.32	2060	3	0.05	11	840	<2	1.32	<2	4	56
M012916		<10	<1	0.07	<10	0.41	1990	2	0.05	33	1000	<2	0.72	<2	8	71

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Finalized Date: 29-JUL-2004
Account: RCM

Project: ARN TR-04-001

CERTIFICATE OF ANALYSIS VA04046440

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012912		0.08	<10	<10	86	<10	76
M012913		0.05	<10	<10	47	<10	48
M012914		0.01	<10	<10	80	<10	72
M012915		0.02	<10	<10	43	<10	55
M012916		0.05	<10	<10	62	<10	52

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

Finalized

29-JUL-2004
Account: RCM

CERTIFICATE VA04046361

Project: ARN-14

P.O. No.:

This report is for 25 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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Signature:

ALS Chemex

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

Project: ARN-14

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046361

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
M012802		1.90	1.720	3.1	0.45	62	<10	10	<0.5	7	1.38	1.4	51	55	6340	30.3
M012803		5.24	0.061	<0.2	2.68	9	<10	10	<0.5	<2	4.77	<0.5	16	47	55	6.42
M012804		4.98	<0.005	<0.2	1.88	3	<10	<10	<0.5	2	2.83	<0.5	27	82	114	4.96
M012805		3.90	0.144	0.2	1.90	12	10	10	<0.5	2	3.80	<0.5	19	60	54	4.96
M012806		5.34	0.011	<0.2	3.15	6	10	10	<0.5	<2	4.97	<0.5	11	16	78	2.88
M012807		5.22	0.040	<0.2	3.06	4	10	20	<0.5	<2	3.18	<0.5	13	9	51	2.45
M012808		5.92	0.008	<0.2	2.30	2	10	20	<0.5	<2	2.95	<0.5	15	26	59	2.91
M012809		3.68	<0.005	<0.2	3.17	6	10	20	<0.5	<2	4.42	0.5	12	13	80	3.03
M012810		4.68	0.040	0.2	3.22	3	10	10	<0.5	<2	3.97	<0.5	7	13	396	1.74
M012811		1.22	0.015	0.6	0.99	24	<10	<10	<0.5	3	6.94	<0.5	46	10	880	19.4
M012812		3.96	0.020	0.2	2.82	2	20	30	<0.5	<2	3.53	<0.5	14	15	277	2.88
M012813		0.60	0.043	0.6	1.76	36	<10	10	<0.5	<2	12.35	<0.5	57	18	1485	12.20
M012814		4.90	0.006	<0.2	2.33	6	<10	10	<0.5	<2	8.55	<0.5	13	29	136	5.27
M012815		3.00	0.010	0.9	1.56	12	<10	10	<0.5	<2	9.16	<0.5	51	36	1180	17.0
M012816		1.22	<0.005	<0.2	2.51	13	<10	40	<0.5	<2	4.22	<0.5	31	44	95	6.07
M012817		1.76	<0.005	<0.2	3.48	4	<10	10	<0.5	<2	5.73	<0.5	7	10	24	2.06
M012818		3.78	0.008	<0.2	1.58	6	<10	<10	<0.5	<2	9.49	<0.5	8	9	97	4.98
M012819		4.62	0.009	<0.2	2.60	3	<10	20	<0.5	<2	4.69	<0.5	10	37	65	2.57
M012820		2.86	<0.005	<0.2	0.45	7	10	30	<0.5	<2	>25.0	<0.5	2	7	16	0.48
M012821		1.30	0.005	<0.2	3.13	6	<10	10	<0.5	<2	4.97	<0.5	15	11	63	3.19
M012822		4.62	<0.005	<0.2	1.95	2	<10	30	<0.5	<2	2.00	<0.5	19	17	136	3.33
M012823		4.14	<0.005	<0.2	1.78	<2	<10	50	<0.5	<2	1.68	<0.5	16	9	67	2.66
M012824		4.56	0.006	<0.2	1.81	<2	<10	20	<0.5	<2	2.50	<0.5	9	31	18	2.42
M012825		4.86	<0.005	<0.2	1.96	2	<10	40	<0.5	<2	2.07	<0.5	11	13	17	2.16
M012826		4.54	<0.005	<0.2	2.16	2	<10	60	<0.5	<2	2.21	<0.5	12	25	13	2.63

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

Project: ARN-14

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046361

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012802		<10	<1	0.02	<10	0.69	1760	1	0.01	44	490	20	2.15	2	6	17
M012803		10	<1	0.08	10	1.30	1100	2	0.10	30	1020	6	0.34	<2	6	138
M012804		10	<1	0.05	<10	1.72	949	1	0.03	92	640	<2	0.19	2	18	64
M012805		<10	<1	0.06	10	0.96	1235	1	0.07	34	1530	3	0.18	2	16	80
M012806		10	<1	0.11	10	0.86	671	<1	0.14	13	1190	4	0.16	<2	5	176
M012807		10	<1	0.14	<10	0.91	367	1	0.22	10	970	2	0.12	<2	6	216
M012808		10	1	0.09	<10	1.14	557	<1	0.11	20	1090	<2	0.12	<2	5	136
M012809		10	<1	0.11	10	0.80	661	1	0.20	12	1210	2	0.19	<2	4	199
M012810		10	1	0.08	10	0.32	466	<1	0.29	3	1360	4	0.24	<2	2	273
M012811		<10	<1	0.05	<10	0.30	1100	<1	0.03	12	1070	<2	3.32	2	1	35
M012812		10	1	0.14	10	0.70	523	9	0.22	9	1290	2	0.31	<2	2	180
M012813		10	<1	0.11	<10	0.60	1775	<1	0.07	5	280	8	4.87	<2	2	74
M012814		<10	<1	0.05	<10	0.27	1135	<1	0.06	3	1020	9	0.72	<2	3	66
M012815		<10	<1	0.08	<10	0.46	1445	<1	0.05	13	440	<2	2.83	<2	3	59
M012816		10	<1	0.07	<10	2.42	1130	<1	0.10	81	570	3	0.47	<2	11	126
M012817		10	<1	0.07	<10	0.35	670	<1	0.11	5	860	7	0.08	<2	3	166
M012818		<10	<1	0.01	<10	0.20	1205	<1	0.01	<1	1280	5	0.58	<2	3	27
M012819		10	<1	0.09	10	0.61	609	1	0.10	12	1690	3	0.11	<2	3	103
M012820		<10	<1	0.05	<10	11.15	159	1	0.03	1	270	8	<0.01	<2	1	370
M012821		10	<1	0.09	10	0.99	558	3	0.07	9	1020	5	0.10	<2	4	81
M012822		10	<1	0.14	10	1.09	456	1	0.14	14	1180	7	0.50	<2	4	86
M012823		10	<1	0.23	10	1.02	283	<1	0.11	14	1030	4	0.30	<2	5	54
M012824		10	<1	0.11	10	0.80	467	<1	0.09	26	930	4	0.05	2	5	62
M012825		10	<1	0.19	10	0.84	249	1	0.09	14	1050	4	0.05	<2	3	56
M012826		10	<1	0.21	10	1.09	288	<1	0.09	17	1080	5	0.04	<2	4	51

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VANCOUVER BC V6B 1L8

Project: ARN-14

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046361

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012802		0.01	<10	10	49	<10	207
M012803		0.07	<10	10	91	<10	63
M012804		0.05	<10	10	117	<10	84
M012805		0.03	<10	10	87	<10	72
M012806		0.12	<10	10	91	<10	54
M012807		0.16	<10	10	114	<10	40
M012808		0.13	<10	<10	94	<10	47
M012809		0.13	<10	10	91	<10	77
M012810		0.07	<10	<10	33	<10	41
M012811		0.07	<10	10	62	<10	43
M012812		0.15	<10	<10	86	<10	42
M012813		0.06	<10	<10	47	<10	80
M012814		0.08	<10	<10	58	<10	32
M012815		0.10	<10	<10	79	<10	57
M012816		0.09	<10	<10	128	<10	99
M012817		0.07	<10	<10	43	<10	31
M012818		0.05	<10	<10	40	<10	12
M012819		0.12	<10	<10	69	<10	30
M012820		0.03	<10	<10	14	<10	23
M012821		0.14	<10	<10	109	<10	47
M012822		0.16	<10	<10	99	<10	39
M012823		0.20	<10	<10	106	<10	33
M012824		0.14	<10	<10	77	<10	32
M012825		0.23	<10	<10	118	<10	33
M012826		0.25	<10	<10	126	<10	42

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CERTIFICATE VA04046360

Project: ARN-13

P.O. No.:

This report is for 26 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

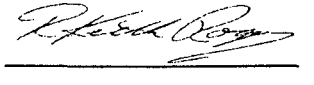
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
***C/O* ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**
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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: 

ALS Chemex

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VANCOUVER BC V6B 1L8

Project: ARN-13

Finalized Date: 30-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046360

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
M012676		3.32	0.047	0.2	0.36	32	<10	20	0.9	<2	3.77	<0.5	13	26	67	31.0
M012677		3.80	0.015	0.2	0.38	39	<10	20	0.7	3	3.30	<0.5	9	26	24	25.5
M012678		2.22	0.020	<0.2	1.88	8	10	10	<0.5	<2	1.62	<0.5	30	42	175	5.16
M012679		4.58	0.011	<0.2	2.45	5	10	10	<0.5	2	3.02	<0.5	24	33	152	4.32
M012680		4.06	0.011	<0.2	2.62	4	10	20	<0.5	2	2.64	<0.5	20	31	136	3.76
M012681		4.80	0.011	0.2	2.56	7	10	20	<0.5	<2	2.90	<0.5	30	22	342	5.10
M012682		1.98	<0.005	<0.2	0.22	4	10	20	<0.5	<2	24.4	<0.5	2	7	12	0.24
M012683		0.74	0.007	<0.2	1.84	19	10	10	<0.5	2	1.76	<0.5	40	90	202	4.74
M012684		4.26	0.006	<0.2	2.69	5	10	20	<0.5	<2	2.83	<0.5	28	78	188	4.22
M012685		3.76	0.015	0.2	1.68	6	10	20	<0.5	2	2.24	<0.5	25	20	224	5.08
M012686		3.96	0.014	<0.2	2.12	7	10	10	<0.5	2	3.30	<0.5	20	20	221	4.80
M012687		3.82	0.006	<0.2	3.06	7	10	20	<0.5	2	3.73	<0.5	16	45	146	4.20
M012688		2.22	0.088	0.6	1.98	5	<10	10	<0.5	2	4.35	<0.5	20	36	776	4.78
M012689		2.96	0.035	2.0	0.81	26	<10	10	<0.5	4	4.99	0.8	154	28	2350	21.7
M012690		3.74	0.032	0.3	1.92	9	<10	10	<0.5	2	6.00	<0.5	16	33	567	5.81
M012691		4.62	0.009	<0.2	3.08	9	10	20	<0.5	<2	4.81	<0.5	11	44	66	2.99
M012692		4.52	0.017	<0.2	2.92	12	10	20	<0.5	<2	4.00	<0.5	13	47	147	2.69
M012693		4.76	0.015	0.3	0.95	11	<10	10	<0.5	2	5.48	<0.5	23	36	280	9.23
M012694		4.26	0.009	<0.2	3.12	<2	10	20	<0.5	<2	4.01	<0.5	16	31	108	2.80
M012695		4.10	<0.005	<0.2	3.79	<2	10	20	<0.5	<2	5.11	<0.5	10	13	34	2.32
M012696		4.06	<0.005	<0.2	2.50	3	10	30	<0.5	<2	2.56	<0.5	17	27	85	3.72
M012697		0.90	0.146	1.4	1.51	56	<10	10	<0.5	3	6.82	<0.5	320	39	3750	23.9
M012698		2.28	<0.005	<0.2	0.26	3	10	30	<0.5	2	23.7	<0.5	2	5	162	0.53
M012699		2.00	<0.005	<0.2	2.42	6	20	50	<0.5	<2	2.82	<0.5	17	64	69	2.87
M012700		4.20	0.010	<0.2	2.71	7	10	100	<0.5	<2	2.46	<0.5	19	45	113	3.74
M012801		4.46	<0.005	<0.2	2.01	<2	20	30	<0.5	<2	2.10	<0.5	6	28	15	1.32

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Project: ARN-13

CERTIFICATE OF ANALYSIS VA04046360

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012676		<10	<1	0.02	10	1.57	6040	2	0.06	41	1020	2	2.13	<2	11	28
M012677		<10	2	0.02	10	1.59	5670	1	0.04	36	900	5	1.12	2	23	29
M012678		10	1	0.13	10	0.72	870	<1	0.08	37	1600	4	1.28	<2	19	83
M012679		10	1	0.11	10	0.94	758	<1	0.07	28	1460	2	0.72	2	14	62
M012680		10	1	0.14	<10	0.94	582	1	0.16	17	940	5	0.87	<2	10	107
M012681		10	<1	0.12	<10	0.68	680	1	0.17	20	960	<2	1.08	<2	8	132
M012682		<10	<1	0.02	<10	10.30	120	1	0.02	<1	230	2	<0.01	4	<1	324
M012683		<10	1	0.08	<10	0.84	870	<1	0.13	99	850	3	0.66	<2	17	91
M012684		10	1	0.10	10	1.12	807	1	0.21	70	900	<2	0.73	<2	16	155
M012685		<10	<1	0.11	20	0.66	1105	1	0.12	34	1230	2	0.47	<2	14	81
M012686		<10	1	0.09	10	0.78	996	1	0.12	24	1340	3	0.42	<2	8	116
M012687		10	1	0.09	10	0.75	1085	1	0.11	21	1130	3	0.29	<2	17	129
M012688		10	1	0.07	10	0.77	1060	1	0.12	21	1520	3	0.36	<2	9	76
M012689		<10	1	0.03	<10	0.47	1605	1	0.02	105	780	7	7.97	<2	4	28
M012690		<10	<1	0.04	10	0.69	1365	<1	0.05	18	2740	4	0.70	<2	7	42
M012691		10	<1	0.11	10	0.86	781	1	0.19	17	1550	2	0.11	<2	10	158
M012692		10	<1	0.11	10	0.78	715	1	0.17	25	1590	3	0.16	<2	12	146
M012693		<10	<1	0.03	10	0.73	2220	1	0.03	40	1980	2	1.29	2	7	37
M012694		10	1	0.11	10	0.65	599	<1	0.13	21	1350	2	0.18	2	9	196
M012695		10	1	0.14	10	0.62	520	1	0.18	5	1110	2	0.12	<2	4	257
M012696		<10	1	0.15	10	1.37	511	<1	0.26	36	1130	<2	0.32	<2	4	129
M012697		<10	1	0.04	<10	0.41	1335	3	0.01	48	1370	10	8.92	2	4	27
M012698		<10	<1	0.03	<10	10.20	147	<1	0.01	1	230	3	<0.01	2	1	353
M012699		10	1	0.20	10	1.26	400	1	0.12	33	1500	<2	0.12	<2	5	90
M012700		10	<1	0.38	10	1.72	298	1	0.14	31	1110	<2	0.22	2	7	64
M012801		10	1	0.14	10	0.60	164	<1	0.24	13	1080	2	0.03	<2	2	94

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Project: ARN-13

Finalized Date: 30-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046360

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012676		0.01	<10	<10	50	<10	150
M012677		0.01	<10	10	98	<10	140
M012678		0.04	<10	<10	132	<10	57
M012679		0.08	<10	10	134	<10	56
M012680		0.12	<10	<10	124	<10	62
M012681		0.10	<10	10	122	<10	44
M012682		0.01	<10	10	8	<10	59
M012683		0.01	<10	10	92	<10	47
M012684		0.04	<10	10	102	<10	42
M012685		0.05	<10	<10	114	<10	51
M012686		0.06	<10	10	88	<10	51
M012687		0.04	<10	10	95	<10	55
M012688		0.09	<10	<10	76	<10	51
M012689		0.03	<10	10	51	<10	100
M012690		0.08	<10	10	73	<10	46
M012691		0.12	<10	10	79	<10	50
M012692		0.09	<10	10	77	<10	41
M012693		0.03	<10	10	69	<10	66
M012694		0.10	<10	10	77	<10	48
M012695		0.12	<10	<10	74	<10	37
M012696		0.15	<10	<10	100	<10	41
M012697		0.07	<10	10	57	<10	158
M012698		0.02	<10	10	9	<10	17
M012699		0.20	<10	<10	97	<10	41
M012700		0.31	<10	10	140	<10	112
M012801		0.20	<10	10	59	<10	27

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Finalized: 12-AUG-2004
Account: RCM

CERTIFICATE VA04046329

Project: ARN-12

P.O. No.:

This report is for 32 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

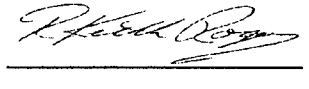
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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: 

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Project: ARN-12

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046329

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012638		1.04	0.011	<0.2	2.87	12	<10	10	<0.5	<2	11.65	<0.5	8	31	52	6.74
M012639		4.14	0.048	<0.2	1.94	32	<10	10	<0.5	<2	11.30	<0.5	19	48	106	7.04
M012640		4.76	0.006	<0.2	2.67	6	<10	10	<0.5	<2	3.48	<0.5	16	174	41	5.66
M012641		1.94	0.025	<0.2	1.18	<2	<10	<10	<0.5	<2	5.50	<0.5	12	60	45	11.05
M012642		2.28	<0.005	<0.2	0.31	7	20	20	<0.5	<2	24.3	<0.5	<1	9	20	0.36
M012643		3.36	0.006	<0.2	2.56	7	10	20	<0.5	<2	2.52	<0.5	20	38	133	3.60
M012644		1.12	0.048	<0.2	1.79	11	10	10	<0.5	<2	3.25	<0.5	18	27	186	5.38
M012645		0.84	0.135	3.4	2.57	59	<10	10	<0.5	<2	5.24	13.6	140	157	5220	12.50
M012646		0.50	0.685	4.7	1.68	213	<10	10	<0.5	2	9.36	0.5	439	116	7410	23.4
M012647		1.56	0.230	4.4	1.14	52	10	<10	<0.5	<2	7.67	<0.5	405	44	6950	31.6
M012648		4.14	0.014	<0.2	3.44	8	10	10	<0.5	<2	4.80	<0.5	24	63	270	5.66
M012649		4.88	<0.005	<0.2	1.72	<2	<10	<10	<0.5	<2	7.37	<0.5	7	49	23	4.92
M012650		2.70	0.020	<0.2	1.48	6	<10	10	<0.5	<2	3.23	<0.5	16	49	128	5.77
M012657		2.70	5.45	20.4	0.76	19	<10	10	<0.5	<2	5.78	3.1	73	24	>10000	13.35
M012658		3.70	0.022	0.2	3.18	4	10	10	<0.5	<2	5.43	<0.5	11	20	326	3.97
M012659		4.92	0.024	0.2	2.21	<2	10	10	<0.5	<2	2.81	<0.5	13	19	72	3.86
M012660		4.98	0.006	<0.2	2.02	9	10	10	<0.5	<2	2.57	<0.5	17	23	73	3.90
M012661		2.46	0.008	<0.2	2.63	2	10	10	<0.5	<2	5.13	<0.5	6	20	35	1.84
M012662		1.10	4.15	53.2	0.86	77	<10	40	<0.5	8	4.93	15.2	224	23	>10000	19.8
M012663		4.24	0.123	1.2	1.70	65	<10	<10	<0.5	<2	8.13	<0.5	27	39	2270	8.17
M012664		0.92	0.005	0.2	2.28	5	<10	10	<0.5	<2	2.69	<0.5	22	38	205	4.87
M012665		6.96	0.331	10.0	0.86	7	<10	10	<0.5	<2	5.58	<0.5	101	36	>10000	36.2
M012666		6.70	1.235	11.9	0.88	18	<10	10	<0.5	<2	6.16	1.7	75	33	>10000	31.8
M012667		3.98	0.046	0.2	1.88	9	<10	10	<0.5	<2	7.84	<0.5	11	54	408	6.80
M012668		2.22	0.049	0.2	2.03	11	10	20	<0.5	<2	2.63	<0.5	27	75	285	2.52
M012669		5.98	0.057	0.3	1.04	12	<10	<10	<0.5	<2	6.25	<0.5	27	46	506	36.1
M012670		6.82	0.057	0.3	0.40	<2	<10	<10	<0.5	2	4.63	<0.5	26	30	588	44.0
M012671		2.38	0.010	<0.2	2.01	13	<10	<10	<0.5	<2	9.29	<0.5	5	82	42	6.45
M012672		4.96	0.074	0.4	0.55	6	<10	<10	<0.5	<2	6.86	<0.5	27	35	672	35.8
M012673		4.04	0.011	0.2	0.47	4	<10	<10	<0.5	<2	5.59	<0.5	10	22	245	45.4
M012674		2.70	0.037	0.2	2.10	7	<10	10	<0.5	<2	3.12	<0.5	25	62	310	4.31
M012675		3.18	<0.005	<0.2	1.00	7	10	<10	<0.5	<2	8.46	<0.5	4	73	19	5.02

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Project: ARN-12

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046329

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012638		10	1	0.10	10	1.24	1630	<1	0.03	20	1190	8	0.60	<2	7	160
M012639		10	1	0.15	10	1.31	1425	1	0.02	42	1090	7	0.65	<2	8	86
M012640		10	2	0.08	<10	2.40	1410	4	0.05	98	680	2	0.06	<2	5	62
M012641		<10	<1	0.02	<10	0.92	2520	<1	0.02	24	850	<2	0.23	<2	7	42
M012642		<10	<1	0.02	<10	10.35	128	<1	0.01	10	210	3	<0.01	<2	1	352
M012643		10	1	0.13	10	1.14	587	1	0.10	39	1590	<2	0.17	<2	9	83
M012644		<10	<1	0.06	10	0.56	1240	1	0.07	27	1060	<2	0.38	3	15	73
M012645		10	<1	0.03	10	2.36	1305	1	0.02	184	970	14	5.89	<2	12	30
M012646		<10	2	0.02	<10	0.73	1465	2	0.01	120	850	46	>10.0	<2	5	14
M012647		10	4	0.02	<10	0.35	1105	2	<0.01	168	680	22	>10.0	<2	4	12
M012648		10	2	0.08	<10	1.28	1225	1	0.05	49	710	5	0.42	<2	17	64
M012649		<10	1	0.02	10	0.40	1665	1	0.01	7	1180	<2	0.05	<2	8	24
M012650		<10	1	0.08	10	0.71	1470	2	0.05	24	1040	3	0.17	<2	13	54
M012657		<10	2	0.04	<10	0.66	2320	1	0.04	37	890	3	4.26	<2	4	35
M012658		10	1	0.11	10	0.57	1190	2	0.12	8	1120	5	0.25	<2	7	142
M012659		10	2	0.09	10	0.92	835	1	0.05	15	1200	2	0.16	<2	7	56
M012660		10	1	0.09	10	1.00	875	1	0.05	15	1180	<2	0.15	<2	6	59
M012661		10	1	0.09	<10	0.53	594	1	0.08	13	930	2	0.15	<2	6	98
M012662		<10	2	0.06	<10	0.36	1275	2	0.02	253	960	10	>10.0	<2	3	25
M012663		<10	1	0.02	<10	0.45	1965	1	0.01	24	1120	<2	1.28	<2	6	26
M012664		10	<1	0.07	10	1.40	964	<1	0.05	49	740	<2	0.15	<2	11	39
M012665		10	1	0.04	<10	0.27	1125	1	0.02	102	1050	2	5.31	<2	1	15
M012666		10	<1	0.04	<10	0.45	1320	1	0.03	63	970	2	4.53	<2	2	25
M012667		<10	<1	0.02	<10	0.33	1910	<1	0.02	12	960	5	0.41	<2	8	22
M012668		10	<1	0.12	10	0.73	540	2	0.12	45	850	2	0.16	<2	8	100
M012669		10	<1	0.03	<10	0.26	1195	2	0.03	36	860	2	1.42	<2	3	30
M012670		10	<1	0.02	<10	0.14	718	2	0.02	25	460	<2	1.39	<2	1	19
M012671		<10	1	0.04	<10	0.19	1210	<1	0.02	5	890	2	0.15	<2	5	40
M012672		10	2	0.04	<10	0.18	848	3	0.02	28	730	27	0.97	<2	2	31
M012673		10	<1	0.03	<10	0.17	810	6	0.02	14	530	33	0.35	<2	2	26
M012674		10	<1	0.07	10	0.81	850	2	0.10	39	1600	7	0.33	<2	11	74
M012675		<10	<1	0.03	<10	0.36	1300	1	0.02	3	1210	4	0.06	2	9	33

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Finalized Date: 2-AUG-2004
Account: RCM

Project: ARN-12

CERTIFICATE OF ANALYSIS VA04046329

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012638		0.06	<10	<10	79	<10	40	
M012639		0.01	<10	10	85	<10	45	
M012640		0.07	<10	<10	71	<10	86	
M012641		0.02	<10	<10	76	<10	63	
M012642		0.02	<10	<10	10	<10	16	
M012643		0.14	<10	<10	133	<10	45	
M012644		0.02	<10	<10	108	<10	114	
M012645		0.03	<10	<10	103	<10	1165	
M012646		0.05	<10	<10	83	<10	181	
M012647		0.04	<10	<10	45	<10	73	
M012648		0.06	<10	<10	134	<10	72	
M012649		0.07	<10	<10	68	<10	37	
M012650		0.03	<10	<10	90	<10	61	
M012657		0.02	<10	<10	37	10	539	3.24
M012658		0.09	<10	<10	80	<10	69	
M012659		0.12	<10	<10	98	<10	55	
M012660		0.11	<10	<10	93	<10	53	
M012661		0.09	<10	<10	71	<10	37	
M012662		0.03	<10	<10	36	<10	1535	6.56
M012663		0.07	<10	<10	59	<10	50	
M012664		0.12	<10	<10	147	<10	74	
M012665		0.04	<10	30	69	<10	237	1.25
M012666		0.04	<10	20	73	<10	308	1.43
M012667		0.10	<10	10	83	<10	45	
M012668		0.09	<10	<10	92	<10	39	
M012669		0.06	<10	30	93	<10	47	
M012670		0.04	<10	30	100	<10	24	
M012671		0.09	<10	10	66	<10	52	
M012672		0.04	<10	<10	96	10	38	
M012673		0.05	<10	<10	96	<10	25	
M012674		0.07	<10	<10	90	<10	53	
M012675		0.08	<10	<10	35	<10	36	

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CERTIFICATE VA04046328

Project: ARN-10

P.O. No.:

This report is for 29 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

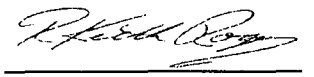
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Signature: 

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Project: ARN-10

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046328

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012582		2.18	0.061		0.4	1.42	21	<10	10	<0.5	2	4.34	<0.5	31	40	371
M012583		3.32	>10.0	18.10	0.5	2.49	6	10	20	<0.5	<2	3.92	<0.5	8	17	43
M012584		3.24	0.013		<0.2	3.22	5	<10	10	<0.5	<2	6.48	<0.5	9	7	32
M012585		3.18	0.033		<0.2	2.61	14	10	30	<0.5	<2	2.86	<0.5	23	40	63
M012586		4.12	0.007		<0.2	3.25	<2	<10	10	<0.5	<2	4.09	<0.5	10	21	26
M012587		4.44	0.029		0.4	2.70	16	10	20	<0.5	2	4.98	<0.5	24	24	355
M012588		4.34	0.005		<0.2	2.39	3	<10	10	<0.5	<2	5.14	<0.5	13	18	118
M012589		1.72	0.005		<0.2	2.83	2	10	20	<0.5	<2	6.30	<0.5	8	20	83
M012590		3.76	0.009		0.2	3.47	5	<10	10	<0.5	<2	3.79	<0.5	22	89	120
M012591		4.04	0.049		0.2	2.57	3	<10	20	<0.5	<2	3.99	<0.5	21	59	204
M012592		3.82	3.08		29.6	0.89	84	<10	30	<0.5	27	5.68	2.8	290	5	>10000
M012593		3.52	1.895		24.3	0.80	167	<10	20	<0.5	20	2.25	0.8	362	57	>10000
M012594		Not Recvd														
M012595		2.68	0.024		0.2	0.82	37	10	10	<0.5	<2	2.60	<0.5	36	56	164
M012596		6.40	0.049		0.2	1.60	38	<10	10	<0.5	<2	6.03	<0.5	22	53	140
M012597		4.26	0.029		<0.2	3.50	7	10	20	<0.5	<2	6.56	<0.5	12	11	46
M012598		4.72	0.027		0.3	3.61	6	10	10	<0.5	<2	5.92	<0.5	22	51	367
M012599		0.94	0.007		<0.2	1.96	8	10	10	<0.5	<2	2.38	<0.5	25	72	121
M012600		2.70	<0.005		<0.2	0.43	9	10	40	<0.5	<2	>25.0	<0.5	2	14	68
M012601		4.98	0.016		0.2	2.94	6	10	10	<0.5	<2	2.99	<0.5	20	22	120
M012602		4.32	<0.005		<0.2	2.43	9	10	20	<0.5	<2	2.69	<0.5	20	23	114
M012603		4.52	<0.005		<0.2	3.25	<2	10	50	<0.5	<2	3.65	<0.5	22	62	88
M012604		4.62	<0.005		<0.2	1.81	3	10	20	<0.5	<2	2.71	<0.5	8	18	50
M012605		4.10	<0.005		<0.2	2.13	9	10	50	<0.5	<2	3.16	<0.5	13	39	61
M012606		4.90	0.006		<0.2	1.71	6	10	30	<0.5	<2	4.01	<0.5	21	31	106
M012607		4.94	0.011		<0.2	2.18	2	10	70	<0.5	<2	2.16	<0.5	18	28	71
M012608		6.10	0.005		<0.2	2.26	<2	10	140	<0.5	<2	2.06	<0.5	11	47	54
M012609		2.74	<0.005		<0.2	2.37	2	10	50	<0.5	<2	2.96	<0.5	17	3	23
M012610		3.68	0.007		<0.2	2.24	6	10	40	<0.5	<2	2.91	<0.5	9	42	49

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Project: ARN-10

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046328

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	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
M012582		9.43	10	1	0.08	10	0.66	2370	1	0.08	44	1280	3	0.50	<2	11
M012583		3.33	<10	<1	0.14	<10	0.38	1275	32	0.13	6	1340	3	0.14	<2	5
M012584		3.15	10	1	0.11	10	0.61	1045	4	0.12	9	1340	3	0.24	<2	4
M012585		4.21	10	1	0.19	10	1.27	744	1	0.17	33	1500	<2	0.20	<2	10
M012586		2.66	10	1	0.12	<10	0.81	549	1	0.20	14	820	<2	0.32	<2	10
M012587		4.15	10	1	0.13	<10	0.64	945	1	0.13	40	1040	2	0.73	<2	8
M012588		3.10	10	1	0.10	<10	0.65	746	1	0.10	15	900	2	0.31	<2	4
M012589		2.49	10	<1	0.12	<10	0.55	928	1	0.06	5	820	<2	0.13	<2	4
M012590		2.84	10	1	0.11	<10	1.75	543	1	0.23	98	800	<2	0.24	<2	7
M012591		4.44	10	1	0.12	10	1.22	869	1	0.09	42	1160	<2	0.42	<2	8
M012592		22.8	<10	1	0.12	<10	0.31	1265	1	0.05	191	1770	9	>10.0	<2	2
M012593		34.7	<10	2	0.04	<10	0.75	1980	1	0.03	314	960	21	>10.0	<2	8
M012594																
M012595		7.03	<10	1	0.04	<10	1.13	1320	<1	0.04	57	950	<2	2.03	<2	17
M012596		10.50	10	1	0.05	<10	0.80	2460	<1	0.05	19	1380	<2	2.49	<2	15
M012597		3.34	10	1	0.10	10	0.71	1030	<1	0.06	7	1420	<2	0.09	<2	7
M012598		3.98	10	<1	0.07	10	1.24	853	2	0.06	32	1120	3	0.50	<2	7
M012599		4.98	10	1	0.09	10	0.67	1135	1	0.08	42	1540	<2	0.14	<2	21
M012600		0.38	<10	1	0.05	<10	10.25	144	<1	0.05	1	280	5	<0.01	<2	1
M012601		4.41	10	1	0.12	<10	1.09	841	1	0.08	15	1270	3	0.09	<2	10
M012602		3.78	10	1	0.12	10	0.84	651	1	0.14	14	1280	<2	0.38	<2	7
M012603		3.79	10	2	0.10	10	2.01	605	1	0.18	78	1020	4	0.13	<2	5
M012604		1.77	10	1	0.10	10	0.61	320	<1	0.22	15	1100	2	0.07	<2	5
M012605		2.56	10	1	0.19	10	0.87	376	<1	0.16	16	1340	2	0.13	<2	6
M012606		5.71	10	1	0.11	10	1.06	1060	<1	0.09	27	1030	4	0.24	<2	16
M012607		4.19	10	2	0.27	10	1.08	508	<1	0.17	27	1170	<2	0.11	<2	10
M012608		2.63	10	1	0.41	10	0.86	326	<1	0.27	22	1020	2	0.09	<2	4
M012609		4.86	10	1	0.32	<10	0.95	523	1	0.10	4	850	4	0.08	<2	5
M012610		3.43	10	1	0.18	10	0.67	696	<1	0.19	24	1270	4	0.07	<2	8

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Finalized Date: 2-AUG-2004
Account: RCM

Project: ARN-10

CERTIFICATE OF ANALYSIS VA04046328

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012582		47	0.03	<10	<10	83	<10	77	
M012583		99	0.03	<10	<10	45	<10	45	
M012584		119	0.07	<10	<10	56	<10	46	
M012585		136	0.18	<10	<10	149	<10	53	
M012586		181	0.09	<10	<10	98	<10	41	
M012587		126	0.09	<10	<10	96	<10	46	
M012588		90	0.15	<10	<10	93	<10	37	
M012589		137	0.10	<10	<10	56	<10	31	
M012590		223	0.14	<10	<10	89	<10	35	
M012591		75	0.18	<10	<10	120	<10	62	
M012592		28	0.03	<10	<10	40	<10	412	3.08
M012593		26	0.01	<10	<10	81	<10	469	3.27
M012594									
M012595		48	<0.01	<10	<10	92	<10	56	
M012596		80	0.06	<10	<10	104	<10	61	
M012597		114	0.04	<10	<10	41	<10	37	
M012598		109	0.12	<10	<10	101	<10	67	
M012599		84	0.02	<10	<10	118	<10	54	
M012600		432	0.03	<10	<10	15	<10	16	
M012601		67	0.12	<10	<10	134	<10	55	
M012602		84	0.10	<10	<10	104	<10	54	
M012603		154	0.14	<10	<10	119	<10	50	
M012604		102	0.14	<10	<10	64	<10	29	
M012605		70	0.18	<10	<10	98	<10	34	
M012606		55	0.12	<10	<10	152	<10	62	
M012607		60	0.19	10	<10	144	<10	53	
M012608		76	0.23	<10	<10	90	<10	40	
M012609		52	0.25	<10	<10	201	<10	39	
M012610		70	0.16	<10	<10	83	<10	47	

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CERTIFICATE VA04046327

Project: ARN-11

P.O. No.:

This report is for 27 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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:

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Project: ARN-11

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046327

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012611		1.92	0.214	<0.2	0.65	5	<10	10	<0.5	<2	10.05	<0.5	5	32	36	22.2
M012612		2.18	0.079	0.6	0.73	84	10	10	0.5	<2	3.14	<0.5	12	58	52	27.5
M012613		2.50	0.028	0.2	0.90	28	10	10	0.6	<2	2.51	<0.5	25	48	172	14.05
M012614		4.14	0.238	0.5	0.85	154	20	10	0.6	<2	1.76	<0.5	22	38	270	15.4
M012615		2.38	0.035	0.3	0.63	65	10	10	<0.5	<2	1.97	<0.5	23	35	356	11.45
M012616		2.74	0.063	0.5	0.49	53	<10	10	0.6	<2	3.94	<0.5	14	32	156	21.9
M012617		2.72	0.005	<0.2	1.77	8	10	10	0.5	<2	1.82	<0.5	21	19	73	8.30
M012618		3.10	0.060	<0.2	1.72	20	10	20	<0.5	<2	3.92	<0.5	18	20	72	6.00
M012619		3.92	1.575	<0.2	0.83	16	<10	10	<0.5	2	8.07	<0.5	26	14	389	32.9
M012620		2.28	0.058	0.2	0.34	7	10	50	<0.5	<2	23.8	<0.5	1	8	159	0.51
M012621		3.44	0.078	<0.2	1.74	7	10	20	<0.5	<2	3.62	<0.5	7	8	12	3.44
M012622		3.90	0.115	<0.2	1.85	5	<10	10	<0.5	<2	5.02	<0.5	10	30	17	4.71
M012623		3.96	0.020	<0.2	0.97	9	<10	20	<0.5	<2	11.30	<0.5	11	40	64	6.45
M012624		4.38	0.017	0.3	0.87	10	<10	20	<0.5	<2	8.32	0.5	18	62	100	9.57
M012625		3.32	<0.005	<0.2	0.62	6	10	10	<0.5	<2	5.21	<0.5	40	159	49	7.10
M012626		4.00	<0.005	<0.2	0.55	13	10	10	<0.5	<2	7.04	<0.5	42	158	54	9.60
M012627		2.54	0.031	0.2	1.89	11	30	10	0.5	<2	4.56	<0.5	29	83	208	8.49
M012628		3.50	1.980	17.1	0.44	11	10	10	<0.5	30	1.70	12.2	262	<1	>10000	44.9
M012629		2.28	0.027	0.2	4.84	5	10	20	<0.5	<2	5.14	<0.5	22	77	188	5.48
M012630		4.38	0.026	0.3	3.30	2	10	40	<0.5	<2	3.41	<0.5	20	65	385	3.98
M012631		4.48	0.019	0.2	1.70	6	<10	70	<0.5	<2	1.77	<0.5	24	13	349	4.08
M012632		3.86	0.005	<0.2	2.33	11	<10	30	<0.5	<2	1.98	<0.5	22	71	94	3.81
M012633		4.58	0.005	<0.2	2.28	<2	<10	120	<0.5	<2	1.33	<0.5	23	11	67	4.56
M012634		3.56	<0.005	<0.2	2.02	2	<10	90	<0.5	<2	2.43	<0.5	13	28	53	2.50
M012635		4.78	<0.005	<0.2	3.60	4	<10	130	<0.5	<2	1.82	<0.5	21	31	48	4.28
M012636		5.16	<0.005	<0.2	2.43	2	<10	60	<0.5	<2	1.74	<0.5	18	34	25	3.93
M012637		0.68	0.023	<0.2	2.97	2	<10	120	<0.5	<2	1.24	<0.5	28	28	172	6.18

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Project: ARN-11

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046327

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012611		10	1	0.08	<10	0.29	1575	2	0.06	6	2350	<2	0.14	<2	1	60
M012612		<10	1	0.02	<10	1.24	4510	1	0.04	35	2260	4	0.54	<2	12	23
M012613		<10	1	0.16	10	1.52	3380	4	0.02	57	1270	4	0.65	<2	15	24
M012614		<10	1	0.15	10	1.29	2910	2	0.02	42	1790	7	0.82	<2	13	23
M012615		<10	1	0.19	<10	1.26	2700	2	0.02	38	1600	<2	0.76	<2	13	20
M012616		<10	<1	0.04	10	1.51	5170	3	0.03	25	880	7	0.88	<2	31	25
M012617		<10	1	0.22	10	0.85	1850	<1	0.04	23	1390	2	0.35	<2	12	65
M012618		<10	1	0.13	10	0.74	1680	8	0.15	22	1300	5	0.13	<2	14	94
M012619		10	2	0.07	<10	0.49	1510	2	0.05	25	560	3	1.58	<2	2	64
M012620		<10	<1	0.03	<10	10.35	173	1	0.03	5	240	4	<0.01	2	1	374
M012621		<10	1	0.12	<10	0.48	906	6	0.13	6	1390	3	0.07	<2	5	140
M012622		<10	1	0.11	10	0.94	1310	5	0.07	30	1160	3	0.08	<2	4	106
M012623		<10	<1	0.07	<10	0.55	1720	1	0.06	11	660	8	0.48	<2	1	73
M012624		<10	3	0.06	<10	0.96	2550	2	0.06	60	690	12	0.25	<2	6	53
M012625		<10	<1	0.06	<10	2.63	1820	<1	0.04	186	470	<2	0.22	<2	24	89
M012626		<10	1	0.13	<10	3.44	2040	1	0.03	235	330	<2	0.24	<2	23	83
M012627		<10	1	0.12	10	2.09	1515	<1	0.06	111	820	14	0.30	<2	16	94
M012628		10	3	0.07	<10	0.43	678	3	0.05	198	1430	6	6.79	<2	1	36
M012629		10	1	0.21	<10	0.78	830	1	0.43	37	910	<2	0.21	<2	15	419
M012630		10	1	0.28	<10	1.17	468	1	0.26	31	1000	<2	0.25	<2	9	170
M012631		10	<1	0.46	10	1.44	426	<1	0.10	23	1510	<2	0.45	<2	7	29
M012632		10	1	0.23	<10	1.61	432	1	0.12	41	1040	<2	0.17	<2	5	80
M012633		10	1	0.95	10	1.94	429	<1	0.09	19	1520	<2	0.11	<2	6	26
M012634		10	1	0.35	10	1.24	329	1	0.17	17	1860	<2	0.07	<2	7	116
M012635		10	1	1.05	<10	2.37	340	1	0.23	33	660	<2	0.06	<2	5	83
M012636		10	1	0.48	<10	1.59	343	<1	0.09	32	590	<2	0.06	<2	5	32
M012637		10	1	0.89	<10	2.83	458	1	0.06	33	1100	<2	0.09	<2	9	125

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Project: ARN-11

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046327

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012611		0.03	<10	<10	35	<10	26	
M012612		0.01	<10	<10	80	<10	81	
M012613		<0.01	<10	<10	99	<10	104	
M012614		<0.01	<10	<10	100	<10	102	
M012615		<0.01	<10	<10	65	<10	70	
M012616		<0.01	<10	<10	120	<10	99	
M012617		<0.01	<10	<10	106	<10	58	
M012618		0.02	<10	<10	120	<10	54	
M012619		0.02	<10	<10	34	<10	41	
M012620		0.02	<10	<10	10	<10	17	
M012621		0.03	<10	<10	43	<10	37	
M012622		0.04	<10	<10	38	<10	44	
M012623		0.03	<10	<10	24	<10	62	
M012624		0.02	<10	<10	40	10	84	
M012625		<0.01	<10	<10	87	<10	52	
M012626		<0.01	<10	<10	104	<10	68	
M012627		0.05	<10	<10	108	<10	76	
M012628		0.08	10	<10	72	<10	660	3.95
M012629		0.18	<10	<10	130	<10	57	
M012630		0.22	<10	<10	123	<10	44	
M012631		0.33	<10	<10	156	<10	39	
M012632		0.25	<10	<10	114	<10	37	
M012633		0.43	<10	<10	184	<10	40	
M012634		0.22	<10	<10	110	<10	31	
M012635		0.35	<10	<10	164	<10	46	
M012636		0.31	<10	<10	142	<10	44	
M012637		0.50	<10	<10	229	<10	78	

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Finalized D 29-JUL-2004
Account: RCM

CERTIFICATE VA04046326

Project: ARN-15

P.O. No.:

This report is for 27 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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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:

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Project: ARN-15

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046326

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012827		2.28	0.473	<0.2	2.02	18	<10	40	<0.5	<2	7.55	<0.5	29	45	215	29.1
M012828		2.80	0.089	<0.2	1.28	36	<10	70	<0.5	3	8.57	<0.5	38	44	293	43.1
M012829		2.74	0.074	<0.2	1.94	7	<10	10	<0.5	<2	4.28	<0.5	12	55	45	5.38
M012830		1.74	0.014	<0.2	1.00	6	10	10	0.6	2	2.47	<0.5	25	69	74	24.3
M012831		4.38	0.027	0.2	3.39	7	10	20	<0.5	<2	4.13	<0.5	15	10	122	2.79
M012832		1.98	<0.005	<0.2	0.88	4	10	10	0.5	<2	1.28	<0.5	26	300	8	11.50
M012833		4.84	0.011	0.2	1.83	16	<10	30	<0.5	<2	2.52	<0.5	26	52	140	4.04
M012834		5.96	0.045	0.4	2.45	9	<10	30	<0.5	<2	3.67	<0.5	18	43	502	4.79
M012835		4.30	0.028	<0.2	2.00	4	<10	30	<0.5	<2	3.40	<0.5	25	48	348	4.05
M012836		2.26	0.012	<0.2	2.02	3	<10	10	<0.5	<2	3.29	<0.5	14	33	173	8.49
M012837		4.62	0.012	<0.2	3.11	5	10	10	<0.5	<2	3.97	<0.5	15	22	41	3.00
M012838		5.66	0.014	0.2	1.05	43	<10	10	<0.5	<2	6.18	<0.5	17	37	31	18.8
M012839		5.52	0.021	<0.2	3.03	4	<10	10	<0.5	<2	4.53	<0.5	13	10	184	3.26
M012840		3.38	<0.005	0.5	0.28	11	10	20	<0.5	<2	23.5	<0.5	2	7	98	0.41
M012841		3.74	0.013	0.3	2.05	2	<10	10	<0.5	<2	8.41	<0.5	14	28	174	6.53
M012842		4.06	<0.005	0.2	2.43	4	10	100	<0.5	<2	2.95	<0.5	17	21	118	3.20
M012843		3.70	0.010	<0.2	2.28	<2	<10	10	0.5	<2	2.78	<0.5	16	13	282	4.68
M012844		5.24	0.005	<0.2	3.03	11	<10	30	<0.5	<2	4.01	<0.5	17	26	152	3.28
M012845		1.86	<0.005	0.2	2.15	4	<10	10	<0.5	<2	8.71	<0.5	13	30	119	7.52
M012846		3.02	<0.005	<0.2	1.60	15	<10	<10	<0.5	<2	11.25	<0.5	10	38	36	9.28
M012847		2.80	0.007	<0.2	1.54	12	<10	<10	<0.5	<2	11.35	<0.5	12	35	86	8.81
M012848		2.86	0.039	<0.2	1.41	25	<10	<10	<0.5	13	11.00	<0.5	17	36	273	6.90
M012849		3.62	<0.005	<0.2	3.48	2	10	20	<0.5	<2	5.12	<0.5	14	30	40	3.85
M012850		1.74	0.046	0.5	3.77	48	<10	<10	<0.5	2	11.40	<0.5	89	28	751	13.75
M012851		5.68	<0.005	<0.2	2.62	2	<10	50	<0.5	<2	2.87	<0.5	19	36	83	3.58
M012852		6.38	<0.005	<0.2	2.17	2	<10	10	<0.5	<2	2.33	<0.5	20	21	253	4.08
M012853		6.34	<0.005	<0.2	3.14	5	<10	20	<0.5	<2	2.73	<0.5	21	32	77	4.20

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Project: ARN-15

Finalized Date: 29-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046326

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012827		10	<1	0.14	<10	0.78	1460	2	0.05	17	1200	2	1.28	<2	7	76
M012828		10	1	0.12	<10	0.61	1430	2	0.04	11	1180	<2	2.54	<2	4	76
M012829		10	1	0.07	<10	0.57	1460	1	0.08	33	950	5	0.15	<2	15	54
M012830		<10	<1	0.01	10	1.29	5210	1	0.03	92	840	<2	0.20	<2	31	36
M012831		10	1	0.16	<10	0.80	658	1	0.21	14	860	12	0.15	<2	10	225
M012832		<10	1	0.02	10	1.01	2940	1	0.02	116	680	3	0.17	<2	27	26
M012833		10	1	0.16	10	1.28	744	1	0.07	57	1600	5	0.25	2	10	70
M012834		10	1	0.19	10	0.88	699	15	0.14	30	1750	6	0.32	<2	6	108
M012835		<10	1	0.14	10	0.76	908	2	0.10	36	1870	<2	0.39	2	11	68
M012836		10	1	0.07	10	1.08	2060	11	0.05	18	1030	2	0.15	<2	7	55
M012837		10	1	0.12	10	0.72	710	3	0.16	12	760	4	0.14	<2	9	194
M012838		<10	<1	0.04	10	0.53	1920	3	0.03	89	1440	<2	0.80	<2	9	28
M012839		10	2	0.12	10	0.68	830	3	0.11	10	1320	12	0.36	<2	4	108
M012840		<10	<1	0.03	<10	9.91	148	1	0.02	2	260	4	<0.01	4	1	363
M012841		10	<1	0.08	<10	0.36	1245	2	0.04	5	570	3	0.65	<2	4	58
M012842		10	1	0.19	10	0.86	545	2	0.14	18	1410	4	0.25	<2	6	137
M012843		10	<1	0.13	10	1.14	823	2	0.07	10	2040	<2	0.08	<2	7	66
M012844		10	<1	0.19	10	1.20	661	<1	0.10	24	1280	3	0.20	<2	6	106
M012845		<10	<1	0.07	10	0.48	1810	1	0.04	13	730	2	0.29	<2	8	59
M012846		10	1	0.02	10	0.36	1985	3	0.02	30	610	4	0.49	<2	7	26
M012847		<10	<1	0.06	<10	0.31	2160	1	0.04	18	450	2	0.79	<2	6	35
M012848		<10	<1	0.04	<10	0.23	1650	1	0.03	6	310	5	2.04	<2	4	56
M012849		10	1	0.14	10	1.16	984	3	0.13	25	1320	4	0.47	<2	5	130
M012850		10	1	0.01	<10	1.60	2580	1	0.01	17	250	6	5.36	<2	9	105
M012851		10	1	0.15	10	1.53	605	1	0.21	46	1230	3	0.22	<2	6	128
M012852		10	1	0.08	10	1.37	639	1	0.11	25	1670	<2	0.12	<2	5	66
M012853		10	1	0.08	10	2.18	531	<1	0.22	62	890	<2	0.11	<2	5	125

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Project: ARN-15

CERTIFICATE OF ANALYSIS VA04046326

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012827		0.10	<10	<10	84	<10	56
M012828		0.03	<10	<10	57	<10	43
M012829		0.09	<10	<10	122	<10	53
M012830		0.01	<10	<10	144	<10	146
M012831		0.10	<10	<10	106	<10	57
M012832		<0.01	<10	<10	123	<10	79
M012833		0.15	<10	<10	115	<10	85
M012834		0.15	<10	<10	85	<10	54
M012835		0.11	<10	<10	96	<10	49
M012836		0.10	<10	<10	77	<10	73
M012837		0.12	<10	<10	98	<10	45
M012838		0.06	<10	<10	71	<10	45
M012839		0.13	<10	<10	81	<10	59
M012840		0.02	<10	<10	6	<10	18
M012841		0.10	<10	<10	59	<10	34
M012842		0.16	<10	<10	114	<10	48
M012843		0.35	<10	<10	156	<10	86
M012844		0.23	<10	<10	135	<10	54
M012845		0.07	<10	<10	74	<10	48
M012846		0.07	<10	<10	56	<10	35
M012847		0.07	<10	<10	52	<10	31
M012848		0.06	<10	<10	43	<10	25
M012849		0.10	<10	<10	77	<10	57
M012850		0.04	<10	<10	102	<10	108
M012851		0.17	<10	<10	102	<10	60
M012852		0.21	<10	<10	116	<10	57
M012853		0.21	<10	<10	143	<10	54

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Finalized D -AUG-2004
Account: RCM

CERTIFICATE VA04046325

Project: ARN TR04-005

P.O. No.:

This report is for 12 Rock samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Signature:

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Finalized Date: 1-AUG-2004
Account: RCM

Project: ARN TR04-005

CERTIFICATE OF ANALYSIS VA04046325

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-AA23 Au Check ppm 0.005	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
M012276		3.94	0.048		<0.2	4.88	2	<10	100	<0.5	<2	4.63	<0.5	13	46	144
M012277		4.32	0.020		<0.2	2.30	2	10	20	<0.5	<2	2.77	<0.5	7	33	60
M012278		2.86	0.051		0.2	2.68	14	<10	20	<0.5	<2	4.37	0.5	46	65	521
M012279		2.54	0.027		<0.2	3.83	7	<10	160	<0.5	<2	4.84	<0.5	30	91	274
M012280		2.62	0.063	0.053	<0.2	4.60	10	<10	30	<0.5	<2	5.68	<0.5	41	64	512
M012281		3.34	0.075		<0.2	3.98	7	<10	30	<0.5	<2	3.83	<0.5	25	75	361
M012282		4.16	0.065		0.2	2.97	3	<10	30	<0.5	<2	2.86	<0.5	20	50	387
M012283		3.24	0.361		0.2	3.31	2	<10	20	<0.5	<2	2.11	<0.5	23	30	451
M012284		2.62	0.088		0.2	2.59	4	<10	60	<0.5	<2	1.97	<0.5	15	32	274
M012285		3.28	0.098		0.2	2.41	3	<10	40	<0.5	<2	1.90	<0.5	17	23	344
M012286		3.58	0.301		0.2	2.99	<2	<10	20	<0.5	<2	4.58	<0.5	27	97	255
M012287		2.66	0.182		0.2	3.78	2	<10	20	<0.5	4	2.91	<0.5	40	102	502

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Project: ARN TR04-005

Finalized Date: 1-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046325

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
M012276		2.57	10	<1	0.12	10	0.38	383	1	0.31	24	1380	2	0.50	<2	5
M012277		1.93	<10	1	0.09	10	0.34	313	1	0.21	9	1140	2	0.12	2	4
M012278		5.98	10	1	0.13	10	0.71	716	1	0.14	62	1500	<2	1.99	4	11
M012279		6.11	10	<1	0.39	<10	0.96	866	1	0.34	48	1100	<2	1.10	2	14
M012280		6.94	10	1	0.16	<10	0.62	782	1	0.26	67	1610	3	2.48	<2	12
M012281		6.37	10	1	0.17	<10	0.63	522	1	0.40	44	1510	<2	1.30	2	9
M012282		5.47	10	<1	0.14	10	0.71	433	1	0.16	23	1180	3	1.08	3	7
M012283		4.45	10	<1	0.11	<10	1.07	289	1	0.26	20	920	2	0.89	<2	5
M012284		4.54	10	1	0.28	10	0.81	340	<1	0.27	15	840	<2	0.55	2	5
M012285		3.89	10	<1	0.13	10	0.57	235	1	0.28	13	1080	3	1.12	2	4
M012286		7.87	10	<1	0.15	<10	0.74	876	<1	0.13	41	950	5	0.72	2	11
M012287		10.80	10	<1	0.18	<10	0.54	515	<1	0.24	41	1040	5	2.39	<2	9

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Project: ARN TR04-005

Finalized Date: 1-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046325

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012276		267	0.25	<10	<10	105	<10	28
M012277		94	0.14	<10	<10	82	<10	22
M012278		64	0.28	<10	<10	147	<10	56
M012279		132	0.34	<10	<10	170	<10	66
M012280		207	0.29	<10	<10	156	<10	39
M012281		155	0.31	<10	<10	189	<10	43
M012282		99	0.30	<10	<10	197	<10	32
M012283		100	0.21	<10	<10	143	<10	32
M012284		126	0.23	<10	<10	146	<10	29
M012285		116	0.20	<10	<10	128	<10	28
M012286		48	0.27	<10	<10	163	<10	35
M012287		69	0.28	<10	<10	199	<10	31

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

CERTIFICATE VA04046324

Project: ARN TR04 002-004

P.O. No.:

This report is for 13 Rock samples submitted to our lab in Vancouver, BC, Canada on 20-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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

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Project: ARN TR04 002-004

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046324

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012263		1.74	0.007	<0.2	1.09	30	10	10	<0.5	2	2.12	<0.5	27	46	79	8.84
M012264		2.72	0.047	0.2	0.47	35	10	10	0.8	8	2.98	<0.5	29	56	185	28.5
M012265		2.70	<0.005	<0.2	1.40	11	10	10	<0.5	3	2.45	<0.5	21	40	44	6.77
M012266		2.06	<0.005	<0.2	1.50	9	10	10	<0.5	2	1.51	<0.5	22	45	34	4.09
M012267		2.82	0.016	<0.2	1.72	8	10	20	<0.5	2	3.09	<0.5	20	44	71	5.88
M012268		2.76	0.203	0.2	3.71	<2	<10	10	<0.5	2	2.32	<0.5	22	80	578	5.62
M012269		2.36	0.305	0.2	2.63	5	<10	10	<0.5	2	2.07	<0.5	18	21	480	4.87
M012270		1.86	0.105	0.2	3.21	8	<10	30	<0.5	<2	2.47	<0.5	30	74	396	4.50
M012271		1.56	0.903	0.4	3.97	25	<10	10	<0.5	3	2.07	<0.5	37	126	843	8.12
M012272		1.28	0.053	0.3	2.64	<2	<10	40	<0.5	<2	2.34	<0.5	9	5	671	2.39
M012273		4.02	0.042	0.2	4.54	15	<10	50	<0.5	2	3.34	<0.5	56	98	721	7.04
M012274		3.88	0.045	0.2	4.24	19	<10	20	<0.5	3	3.30	<0.5	33	98	593	8.31
M012275		2.42	0.057	0.3	2.51	3	<10	10	<0.5	<2	2.06	<0.5	36	73	745	4.92

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Project: ARN TR04 002-004

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046324

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012263		<10	1	0.06	10	0.84	2220	1	0.05	98	960	3	0.26	<2	28	52
M012264		<10	1	0.03	10	1.34	6190	2	0.05	98	920	2	0.63	<2	25	31
M012265		<10	1	0.11	10	0.91	1830	1	0.07	36	1450	4	0.09	<2	25	68
M012266		<10	1	0.13	10	0.49	978	1	0.10	40	1520	5	0.10	<2	14	69
M012267		10	1	0.11	10	0.68	1265	1	0.14	25	1760	5	0.14	<2	15	91
M012268		10	1	0.07	<10	0.39	258	<1	0.26	60	800	6	2.13	<2	5	172
M012269		10	<1	0.07	<10	0.38	197	<1	0.15	26	1250	3	1.28	<2	5	101
M012270		10	<1	0.09	<10	0.80	371	<1	0.28	70	820	4	1.34	<2	6	144
M012271		10	<1	0.06	<10	0.53	289	1	0.25	74	720	8	2.77	<2	11	112
M012272		10	1	0.14	10	0.59	260	<1	0.21	5	1020	5	0.14	<2	2	112
M012273		10	1	0.18	<10	0.49	287	<1	0.34	59	1740	<2	1.72	<2	7	216
M012274		10	1	0.10	<10	0.27	210	1	0.33	33	3470	2	1.42	<2	6	186
M012275		10	<1	0.09	<10	0.41	204	<1	0.22	48	940	3	1.25	<2	4	106

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Project: ARN TR04 002-004

Finalized Date: 2-AUG-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04046324

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012263		0.02	<10	<10	142	<10	83
M012264		0.01	<10	<10	110	<10	142
M012265		0.01	<10	<10	145	<10	70
M012266		0.01	<10	<10	104	<10	46
M012267		0.07	<10	<10	120	<10	53
M012268		0.22	<10	<10	112	<10	29
M012269		0.19	<10	<10	118	<10	20
M012270		0.21	<10	<10	156	<10	29
M012271		0.24	<10	<10	188	<10	37
M012272		0.18	<10	<10	138	<10	31
M012273		0.23	<10	<10	226	<10	32
M012274		0.17	<10	<10	208	<10	17
M012275		0.22	<10	<10	157	<10	25

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CERTIFICATE VA04042787

Project: ARN-09

P.O. No.:

This report is for 47 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

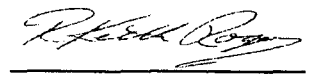
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Project: ARN-09

Finalized Date: 19-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-AA23 Au Check ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
M012535		0.50	0.006			0.3	4.95	10	20	60	<0.5	<2	5.14	<0.5	14	157
M012536		2.26	<0.005			<0.2	3.14	<2	20	10	<0.5	<2	5.81	<0.5	29	273
M012537		3.30	0.013			<0.2	3.28	4	20	10	<0.5	<2	5.64	<0.5	10	31
M012538		2.46	>10.0		15.55	2.1	0.54	110	<10	40	<0.5	11	3.50	<0.5	133	20
M012539		2.26	0.026			2.0	2.50	14	10	10	<0.5	2	9.12	<0.5	12	52
M012540		4.60	0.058			0.2	3.69	8	<10	10	<0.5	2	3.45	<0.5	20	194
M012541		6.20	0.024			0.7	0.71	22	<10	20	<0.5	<2	13.50	<0.5	7	26
M012542		2.94	<0.005			<0.2	0.26	10	10	30	<0.5	<2	23.8	<0.5	<1	8
M012543		0.64	<0.005			0.2	1.64	14	10	10	<0.5	<2	2.13	<0.5	46	225
M012544		1.92	0.028			<0.2	2.32	8	10	10	<0.5	<2	4.15	<0.5	16	58
M012545		4.70	0.013			0.3	2.87	6	10	10	<0.5	<2	3.46	<0.5	18	62
M012546		5.04	0.026			<0.2	2.20	7	<10	10	<0.5	<2	7.15	<0.5	12	58
M012547		5.28	0.016			0.3	2.97	3	10	10	<0.5	<2	4.91	<0.5	20	38
M012548		5.26	0.019			0.2	3.38	6	10	30	<0.5	<2	4.16	<0.5	22	18
M012549		3.78	0.034			0.2	3.03	<2	10	20	<0.5	<2	4.99	<0.5	13	22
M012550		3.36	0.152			1.2	1.66	93	10	10	<0.5	<2	8.40	<0.5	50	69
M012551		5.12	0.017			0.2	2.39	22	10	10	<0.5	<2	4.30	<0.5	22	41
M012552		4.62	0.014			0.3	2.00	26	10	20	<0.5	<2	4.57	<0.5	22	19
M012553		4.26	0.021			0.4	2.68	56	10	20	<0.5	<2	3.47	<0.5	27	27
M012554		3.60	0.008			0.2	1.60	24	10	10	<0.5	<2	2.95	<0.5	30	29
M012555		4.64	0.053			<0.2	1.96	13	10	10	<0.5	<2	5.17	<0.5	14	25
M012556		0.82	0.092			0.5	0.79	21	10	<10	<0.5	2	2.21	<0.5	67	44
M012557		2.88	0.016			0.2	1.09	22	10	10	<0.5	<2	2.38	<0.5	23	65
M012558		3.10	0.013			<0.2	3.12	<2	<10	10	<0.5	<2	5.44	<0.5	23	112
M012559		4.42	0.018			0.3	2.56	18	10	10	<0.5	<2	5.63	<0.5	32	139
M012560		3.56	0.060			0.9	2.14	205	<10	20	<0.5	3	2.27	<0.5	175	37
M012561		2.60	0.049			0.4	3.09	11	<10	50	<0.5	<2	7.49	<0.5	56	29
M012562		1.80	<0.005			0.2	0.26	6	10	30	<0.5	<2	24.0	<0.5	1	4
M012563		5.30	0.447			1.6	3.27	26	10	20	<0.5	<2	3.28	<0.5	29	90
M012564		3.40	0.095			0.2	2.68	16	10	10	<0.5	<2	5.49	<0.5	9	36
M012565		3.44	0.012			0.2	2.30	5	<10	10	<0.5	<2	2.57	<0.5	16	132
M012566		3.82	0.007			<0.2	2.41	10	<10	20	<0.5	<2	3.56	<0.5	13	117
M012567		3.12	0.645	0.635		4.4	0.76	30	10	10	<0.5	<2	5.23	<0.5	56	32
M012568		3.80	0.031			0.3	1.28	<2	<10	10	<0.5	<2	10.65	<0.5	27	36
M012569		2.32	0.024			0.3	2.10	14	<10	10	<0.5	<2	4.58	<0.5	29	22
M012570		6.06	0.085			0.2	1.34	13	<10	<10	<0.5	<2	13.25	<0.5	15	50
M012571		5.68	0.006			0.2	0.88	<2	<10	10	<0.5	<2	12.80	<0.5	10	12
M012572		3.98	<0.005			<0.2	1.16	<2	<10	<10	<0.5	<2	12.45	<0.5	7	34
M012573		5.20	0.005			0.2	1.76	<2	10	10	<0.5	<2	8.93	<0.5	7	16
M012574		5.82	<0.005			<0.2	1.13	<2	<10	<10	<0.5	<2	11.65	<0.5	10	30

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VANCOUVER BC V6B 1L8

Project: ARN-09

Finalized Date: 19-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOR	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
M012535		22	6.31	10	1	0.26	<10	1.56	869	<1	0.46	44	790	10	0.09	2
M012536		20	3.72	<10	1	0.08	<10	3.95	947	<1	0.11	192	460	3	0.02	<2
M012537		62	2.35	<10	1	0.14	<10	1.58	769	2	0.24	30	680	11	0.04	<2
M012538		4850	>50	<10	1	0.10	<10	0.52	1180	4	0.06	118	370	32	5.66	7
M012539		42	9.98	10	<1	0.09	<10	1.71	1645	1	0.07	32	640	9	0.23	5
M012540		12	9.80	10	<1	0.12	<10	3.00	1755	1	0.09	85	750	5	0.14	<2
M012541		73	20.7	<10	1	0.09	<10	0.49	1470	2	0.07	6	940	11	0.64	3
M012542		17	0.30	<10	<1	0.03	<10	10.05	104	<1	0.02	2	220	5	<0.01	<2
M012543		67	8.43	<10	<1	0.05	<10	1.82	1860	1	0.05	219	660	13	0.33	<2
M012544		91	4.83	<10	<1	0.10	<10	0.98	989	3	0.09	35	1280	3	0.10	2
M012545		106	3.92	10	1	0.10	10	1.54	716	2	0.07	32	1580	6	0.23	<2
M012546		21	6.50	10	<1	0.13	<10	1.23	1310	1	0.11	13	1080	2	0.21	5
M012547		118	4.31	10	1	0.12	<10	1.47	862	1	0.10	31	920	4	0.17	4
M012548		212	4.21	10	<1	0.17	<10	1.14	676	4	0.16	15	1040	3	0.31	<2
M012549		61	3.29	10	<1	0.13	10	1.08	708	4	0.08	13	1470	4	0.06	4
M012550		1755	11.10	<10	<1	0.01	<10	0.65	2190	1	0.03	47	850	3	2.57	2
M012551		110	4.74	10	<1	0.07	<10	1.33	1015	1	0.06	25	1260	3	0.18	2
M012552		350	4.12	<10	1	0.12	10	1.24	1040	1	0.15	17	1100	4	0.56	3
M012553		344	4.81	10	<1	0.13	<10	0.98	855	1	0.13	25	970	6	0.49	<2
M012554		69	6.41	<10	1	0.10	10	0.85	1730	2	0.09	51	1380	4	0.27	<2
M012555		44	7.37	<10	<1	0.08	20	0.92	2220	2	0.07	9	1230	4	0.17	<2
M012556		510	17.4	<10	<1	0.02	10	1.02	3630	1	0.02	39	1800	2	2.03	2
M012557		23	10.80	<10	1	0.06	30	1.21	2950	5	0.09	40	550	3	0.12	2
M012558		54	5.46	10	<1	0.12	<10	2.28	1145	2	0.07	75	760	<2	0.13	3
M012559		160	6.89	10	<1	0.05	<10	2.83	1280	2	0.03	102	1020	4	0.26	2
M012560		1545	30.2	10	1	0.12	<10	1.10	2340	3	0.05	11	1200	3	9.97	2
M012561		453	19.7	10	<1	0.20	<10	1.03	2560	2	0.11	4	520	3	2.87	4
M012562		35	0.43	<10	<1	0.02	<10	10.20	126	1	0.02	<1	220	4	<0.01	<2
M012563		2270	4.00	10	<1	0.14	<10	1.53	641	4	0.23	110	770	3	0.62	<2
M012564		120	4.35	<10	2	0.11	<10	0.78	1305	8	0.13	29	890	2	0.11	3
M012565		128	2.53	<10	<1	0.12	<10	1.44	531	5	0.11	104	980	3	0.12	<2
M012566		56	2.99	10	<1	0.11	<10	1.61	595	3	0.07	84	850	5	0.15	2
M012567		6330	12.30	<10	1	0.02	<10	0.62	2570	1	0.04	83	840	5	2.49	4
M012568		347	8.52	<10	<1	0.03	<10	0.27	1770	1	0.02	31	620	<2	1.26	2
M012569		148	8.04	10	<1	0.08	<10	1.26	1650	1	0.10	33	410	6	0.94	<2
M012570		220	7.03	<10	<1	0.05	<10	0.22	1830	<1	0.04	4	470	4	1.24	2
M012571		182	4.63	<10	<1	0.06	<10	0.15	1540	1	0.04	<1	690	3	0.69	<2
M012572		59	6.31	<10	<1	0.03	<10	0.12	1545	<1	0.03	1	1160	<2	0.49	2
M012573		72	4.83	10	1	0.08	<10	0.45	1100	1	0.09	4	860	2	0.22	<2
M012574		38	7.96	<10	<1	0.04	<10	0.41	1675	1	0.04	5	1070	6	0.51	<2

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

Project: ARN-09

Finalized Date: 19-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012535		19	271	0.37	<10	<10	207	<10	70
M012536		14	142	0.10	<10	<10	97	<10	61
M012537		7	334	0.06	<10	<10	58	<10	42
M012538		2	33	0.02	<10	<10	27	<10	46
M012539		5	110	0.06	<10	<10	61	<10	62
M012540		4	68	0.13	<10	<10	89	<10	122
M012541		2	87	0.02	<10	<10	27	<10	25
M012542		<1	327	0.02	<10	<10	9	<10	14
M012543		19	40	<0.01	<10	<10	91	<10	110
M012544		9	97	0.08	<10	<10	76	<10	48
M012545		6	93	0.18	<10	<10	107	<10	45
M012546		5	77	0.11	<10	<10	71	<10	49
M012547		7	106	0.16	<10	<10	117	<10	52
M012548		8	155	0.20	<10	<10	158	<10	49
M012549		7	101	0.15	<10	<10	99	<10	42
M012550		11	20	0.07	<10	<10	75	<10	64
M012551		16	60	0.05	<10	<10	121	<10	58
M012552		12	130	0.03	<10	<10	89	<10	57
M012553		12	119	0.09	<10	<10	131	<10	55
M012554		16	75	0.01	<10	<10	99	<10	58
M012555		11	89	0.03	<10	<10	80	<10	63
M012556		10	32	0.01	<10	<10	62	<10	96
M012557		18	56	0.01	<10	<10	89	<10	78
M012558		11	117	0.15	<10	<10	140	<10	65
M012559		16	85	0.05	<10	<10	123	<10	75
M012560		5	43	0.02	<10	10	74	<10	156
M012561		4	134	0.04	<10	<10	77	<10	101
M012562		<1	315	0.01	<10	<10	7	<10	18
M012563		8	204	0.09	<10	<10	86	<10	128
M012564		10	158	0.04	<10	<10	70	<10	62
M012565		6	107	0.10	<10	<10	79	<10	40
M012566		4	89	0.11	<10	<10	67	<10	83
M012567		6	21	0.02	<10	<10	45	<10	150
M012568		2	33	0.04	<10	<10	53	<10	24
M012569		8	61	0.08	<10	<10	120	<10	79
M012570		2	49	0.03	<10	<10	42	<10	22
M012571		1	58	0.03	<10	<10	30	<10	23
M012572		2	45	0.03	<10	<10	46	<10	16
M012573		1	66	0.11	<10	<10	59	<10	25
M012574		3	44	0.04	<10	<10	50	<10	26

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1016-510 W HASTINGS ST
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Project: ARN-09

Finalized Date: 19-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-AA23 Au Check ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
M012575		1.72	0.007			<0.2	1.85	10	10	<10	<0.5	<2	2.52	<0.5	38	100
M012576		6.12	<0.005			<0.2	1.14	5	<10	10	<0.5	<2	10.75	<0.5	6	23
M012577		7.16	0.006			0.2	1.39	20	<10	<10	<0.5	<2	12.25	<0.5	15	28
M012578		6.44	0.010			<0.2	1.60	7	<10	10	<0.5	<2	10.60	<0.5	8	21
M012579		8.00	0.025			0.3	1.46	13	<10	10	<0.5	<2	12.05	<0.5	20	35
M012580		2.54	0.008			<0.2	0.24	<2	10	40	<0.5	<2	23.9	<0.5	<1	4
M012581		3.68	0.007			0.2	2.50	2	<10	40	<0.5	<2	4.15	<0.5	9	27

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CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOR	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
M012575		64	5.52	<10	<1	0.04	<10	1.91	1170	<1	0.04	136	680	5	0.65	2
M012576		16	9.21	<10	<1	0.01	<10	0.31	1955	<1	0.02	11	1390	<2	0.26	<2
M012577		156	9.21	<10	<1	0.02	<10	0.32	1750	<1	0.02	18	1600	2	0.84	2
M012578		27	7.69	<10	1	0.03	<10	0.26	1660	<1	0.04	8	750	4	0.31	2
M012579		244	11.20	<10	<1	0.02	<10	0.19	1740	1	0.02	15	1310	2	0.82	3
M012580		27	0.32	<10	<1	0.02	<10	10.15	110	<1	0.03	<1	200	6	<0.01	<2
M012581		45	2.65	<10	<1	0.15	10	0.68	612	2	0.13	7	1700	6	0.13	<2

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CERTIFICATE OF ANALYSIS VA04042787

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012575		9	43	0.06	<10	<10	87	<10	84
M012576		2	25	0.02	<10	<10	57	<10	22
M012577		1	24	0.03	<10	<10	59	<10	14
M012578		3	31	0.05	<10	<10	62	<10	23
M012579		2	22	0.03	<10	<10	60	<10	18
M012580		1	337	0.02	<10	<10	10	<10	15
M012581		6	134	0.16	<10	<10	83	<10	33

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CERTIFICATE VA04042400

Project: Arn

P.O. No.:

This report is for 25 Rock samples submitted to our lab in Vancouver, BC, Canada on 7-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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:

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Finalized Date: 26-JUL-2004
Account: RCM

Project: Arn

CERTIFICATE OF ANALYSIS VA04042400

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-AA23 Au Check ppm 0.005	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
M012510		4.28	0.019		0.2	4.97	2	10	80	<0.5	<2	4.66	<0.5	26	140	288
M012511		3.98	<0.005		<0.2	3.01	2	20	60	<0.5	<2	2.94	<0.5	16	76	50
M012512		4.70	0.009		<0.2	3.42	3	20	30	<0.5	<2	4.02	<0.5	20	85	110
M012513		5.74	0.011		0.2	6.49	8	20	20	<0.5	<2	5.21	<0.5	7	75	29
M012514		5.26	<0.005		<0.2	7.62	3	20	10	<0.5	<2	6.97	<0.5	2	34	5
M012515		5.30	0.013		0.2	7.17	<2	30	20	<0.5	<2	5.57	<0.5	2	13	12
M012516		5.90	0.012		<0.2	5.33	8	30	10	<0.5	<2	4.74	<0.5	2	14	14
M012517		1.90	0.065		1.4	2.40	4	20	<10	<0.5	<2	7.38	<0.5	77	48	2590
M012518		5.00	0.013		<0.2	2.56	2	20	10	<0.5	<2	4.73	<0.5	10	20	165
M012519		0.66	0.066		0.5	4.34	6	10	<10	<0.5	<2	8.16	<0.5	59	18	1895
M012520		1.48	<0.005		<0.2	0.27	4	10	30	<0.5	<2	23.1	<0.5	<1	8	12
M012521		4.34	0.007		<0.2	4.47	<2	10	30	<0.5	<2	4.39	<0.5	18	31	128
M012522		4.06	0.057	0.054	<0.2	4.55	<2	10	20	<0.5	<2	4.69	<0.5	10	28	219
M012523		3.28	0.010	0.009	<0.2	3.61	4	10	20	<0.5	<2	3.40	<0.5	11	36	6
M012524		1.58	0.466	4.16	0.4	0.68	2	<10	10	<0.5	3	2.05	<0.5	80	26	4330
M012525		4.96	0.014	0.021	<0.2	2.96	4	10	40	<0.5	<2	3.26	<0.5	19	37	83
M012526		1.02	0.321		0.4	0.27	<2	<10	10	<0.5	6	2.48	<0.5	207	20	1845
M012527		4.74	0.040	0.051	<0.2	0.09	3	<10	<10	<0.5	<2	>25.0	<0.5	1	10	87
M012528		5.02	0.008		<0.2	0.06	4	<10	<10	<0.5	<2	>25.0	<0.5	<1	9	10
M012529		4.26	<0.005		<0.2	0.30	<2	<10	<10	<0.5	<2	>25.0	<0.5	2	14	59
M012530		5.40	0.037		0.3	1.52	7	<10	10	<0.5	<2	13.85	<0.5	28	32	579
M012531		5.12	0.037		0.3	4.04	<2	<10	20	<0.5	<2	4.11	<0.5	27	110	392
M012532		4.40	<0.005		<0.2	2.52	3	10	50	<0.5	<2	2.35	<0.5	14	31	31
M012533		3.52	0.009		<0.2	1.72	2	10	50	<0.5	<2	2.61	<0.5	8	28	55
M012534		3.68	0.005		<0.2	1.37	3	<10	100	<0.5	<2	1.64	<0.5	8	20	27

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Project: Arn

Finalized Date: 26-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042400

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	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
M012510		7.43	10	2	0.42	<10	0.99	937	1	0.53	57	920	<2	0.46	<2	21
M012511		4.16	10	<1	0.25	10	1.26	480	<1	0.22	36	1130	<2	0.15	<2	9
M012512		5.03	10	<1	0.19	10	1.10	621	1	0.27	52	1390	<2	0.30	<2	8
M012513		2.44	10	2	0.08	10	0.47	296	<1	0.65	20	990	<2	0.09	<2	5
M012514		0.74	10	1	0.06	<10	0.25	267	<1	0.39	3	800	3	0.03	<2	3
M012515		1.06	10	1	0.06	<10	0.32	250	<1	0.73	3	930	4	0.02	2	2
M012516		0.94	10	1	0.06	10	0.27	281	<1	0.75	2	1200	5	0.03	<2	3
M012517		11.25	10	<1	0.02	<10	0.54	1880	1	0.04	17	550	3	3.16	3	5
M012518		2.85	10	<1	0.07	10	0.58	619	2	0.14	4	980	3	0.19	2	5
M012519		9.21	10	1	0.02	<10	1.15	2160	1	0.10	13	830	3	1.55	3	9
M012520		0.20	<10	<1	0.02	<10	10.40	106	<1	0.05	1	230	6	<0.01	3	<1
M012521		6.17	10	<1	0.19	20	1.00	985	3	0.25	10	1020	7	0.29	2	7
M012522		2.72	10	<1	0.12	10	0.58	414	1	0.31	11	1040	5	0.17	3	3
M012523		6.27	10	1	0.23	10	1.02	938	1	0.26	10	970	5	0.02	2	8
M012524		>50	10	<1	0.05	<10	0.17	500	2	0.06	15	1360	<2	2.93	4	1
M012525		3.08	10	<1	0.19	10	1.02	431	<1	0.19	15	1700	4	0.22	2	4
M012526		>50	<10	<1	0.01	<10	0.22	555	2	0.03	13	700	<2	8.83	<2	1
M012527		0.29	<10	<1	0.02	<10	0.19	492	<1	0.03	<1	3150	3	<0.01	2	<1
M012528		0.17	<10	<1	0.02	<10	0.20	488	<1	0.03	1	1140	3	<0.01	3	<1
M012529		0.50	<10	1	0.02	<10	0.16	453	<1	0.05	4	1080	3	<0.01	3	1
M012530		7.70	<10	<1	0.04	<10	0.25	737	<1	0.08	19	700	3	1.52	3	3
M012531		4.75	10	1	0.24	<10	0.57	498	<1	0.32	57	780	2	0.61	3	9
M012532		3.51	10	<1	0.31	10	1.13	354	1	0.18	20	1020	4	0.05	3	4
M012533		2.25	10	1	0.20	10	0.68	302	<1	0.10	5	1600	4	0.03	2	3
M012534		1.98	10	<1	0.28	10	0.65	240	<1	0.12	5	1440	4	0.02	2	3

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Project: Arn

Finalized Date: 26-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042400

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012510		327	0.40	<10	<10	155	<10	73
M012511		154	0.24	<10	<10	111	<10	38
M012512		204	0.28	<10	<10	145	<10	47
M012513		563	0.23	<10	<10	90	<10	37
M012514		469	0.14	<10	<10	49	<10	21
M012515		653	0.12	<10	<10	56	<10	21
M012516		528	0.17	<10	<10	67	<10	19
M012517		54	0.14	<10	<10	152	<10	50
M012518		112	0.15	<10	<10	86	<10	34
M012519		130	0.16	<10	<10	134	<10	57
M012520		342	0.02	<10	<10	6	<10	12
M012521		225	0.19	<10	<10	109	<10	58
M012522		313	0.17	<10	<10	71	<10	30
M012523		112	0.18	<10	<10	102	<10	44
M012524		26	0.03	<10	<10	52	<10	48
M012525		147	0.24	<10	<10	104	<10	35
M012526		24	0.02	<10	<10	35	10	27
M012527		172	<0.01	<10	<10	8	<10	4
M012528		164	<0.01	<10	<10	5	<10	2
M012529		210	0.02	<10	<10	11	<10	4
M012530		124	0.12	<10	<10	56	<10	39
M012531		210	0.27	<10	<10	140	<10	41
M012532		94	0.30	<10	<10	142	<10	35
M012533		44	0.18	<10	<10	81	<10	28
M012534		43	0.21	<10	<10	87	<10	26

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CERTIFICATE VA04041706

Project: Arn

P.O. No.:

This report is for 48 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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

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

Signature:

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ALS Canada Ltd.
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North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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Project: Arn

CERTIFICATE OF ANALYSIS VA04041706

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012447		1.38	0.012	<0.2	3.68	<2	10	20	<0.5	<2	3.69	<0.5	20	112	86	3.23
M012448		2.12	0.009	<0.2	3.50	<2	10	20	<0.5	<2	3.86	<0.5	14	18	162	2.67
M012449		3.06	0.012	<0.2	3.02	6	10	10	<0.5	<2	3.83	<0.5	16	17	149	3.67
M012450		2.66	0.006	<0.2	3.29	3	10	20	<0.5	<2	4.90	<0.5	16	8	123	4.83
M012451		2.06	0.028	<0.2	1.35	9	<10	10	<0.5	<2	9.97	<0.5	8	30	106	15.1
M012452		1.76	0.013	<0.2	1.49	<2	<10	<10	<0.5	<2	7.15	<0.5	9	77	33	9.47
M012453		1.94	0.162	<0.2	1.06	2	<10	10	<0.5	<2	4.71	<0.5	14	47	14	20.2
M012454		3.40	0.121	<0.2	2.18	<2	10	10	<0.5	<2	3.00	<0.5	14	50	22	7.77
M012455		3.48	0.016	<0.2	2.40	<2	10	10	<0.5	<2	3.46	<0.5	21	41	43	6.02
M012456		2.72	0.214	<0.2	2.36	<2	10	10	0.5	<2	2.68	<0.5	17	22	83	8.33
M012457		3.20	0.022	<0.2	2.06	3	10	10	<0.5	<2	5.93	<0.5	14	81	10	10.70
M012458		4.20	0.021	<0.2	2.71	3	10	10	<0.5	<2	4.76	<0.5	14	149	3	7.33
M012459		2.80	0.005	<0.2	0.65	<2	<10	10	<0.5	<2	14.6	<0.5	4	50	5	11.95
M012460		2.72	0.009	<0.2	2.55	7	<10	10	<0.5	<2	6.22	<0.5	18	52	43	5.07
M012461		2.68	0.014	<0.2	2.57	13	<10	10	<0.5	<2	4.10	<0.5	16	53	58	5.02
M012462		2.78	0.257	<0.2	2.77	51	40	20	<0.5	<2	6.13	<0.5	8	52	5	2.54
M012463		2.64	0.273	0.8	1.71	9	<10	10	<0.5	<2	2.81	<0.5	51	58	288	9.28
M012464		3.16	0.532	5.1	0.72	20	<10	<10	<0.5	10	1.77	0.9	363	25	9250	27.9
M012465		2.52	<0.005	<0.2	0.25	2	10	40	<0.5	<2	23.8	<0.5	1	9	24	0.29
M012466		3.04	0.022	0.2	1.55	80	<10	10	<0.5	<2	4.92	<0.5	46	58	285	6.05
M012467		2.64	0.008	<0.2	3.44	18	10	10	<0.5	<2	5.68	<0.5	28	79	199	4.94
M012468		0.66	<0.005	0.2	1.41	5	<10	<10	<0.5	<2	6.27	<0.5	17	37	205	36.9
M012469		1.60	0.051	<0.2	2.92	6	<10	10	<0.5	<2	9.49	<0.5	20	47	204	4.59
M012470		1.94	0.006	<0.2	3.28	4	10	20	<0.5	<2	3.16	<0.5	24	23	162	4.75
M012471		2.16	0.013	<0.2	3.38	3	10	20	<0.5	<2	3.73	<0.5	26	22	203	4.40
M012472		4.50	0.032	<0.2	0.83	7	10	20	<0.5	<2	0.77	<0.5	28	24	406	3.29
M012473		4.08	0.007	<0.2	3.77	4	<10	30	<0.5	<2	3.26	<0.5	23	22	210	3.47
M012474		4.86	0.006	<0.2	3.49	3	<10	30	<0.5	<2	3.62	<0.5	18	21	118	4.92
M012475		1.18	<0.005	<0.2	2.98	4	<10	10	<0.5	<2	3.22	<0.5	23	32	92	4.27
M012476		4.54	0.015	<0.2	3.76	3	10	20	<0.5	<2	3.35	<0.5	18	19	150	3.42
M012477		4.50	0.010	<0.2	3.68	<2	<10	10	<0.5	<2	6.22	<0.5	19	17	135	9.20
M012478		5.52	0.006	0.2	2.18	5	<10	10	<0.5	<2	4.38	<0.5	8	21	40	2.38
M012479		4.12	<0.005	<0.2	1.41	19	<10	10	<0.5	<2	6.20	<0.5	6	38	24	3.97
M012480		4.36	0.021	<0.2	2.85	3	<10	10	<0.5	<2	4.43	<0.5	16	36	151	3.54
M012481		4.42	0.023	<0.2	2.17	12	<10	180	<0.5	<2	5.09	<0.5	11	32	96	3.12
M012482		1.30	<0.005	<0.2	0.49	2	10	50	<0.5	<2	19.4	<0.5	2	12	10	0.46
M012483		2.06	0.051	<0.2	1.04	6	<10	10	<0.5	<2	3.17	<0.5	16	27	88	5.50
M012484		3.18	0.023	<0.2	1.90	6	<10	10	<0.5	<2	3.61	<0.5	28	87	119	6.42
M012485		2.36	0.247	<0.2	0.87	18	<10	10	<0.5	<2	1.91	<0.5	32	33	328	8.30
M012486		3.98	0.050	0.3	0.95	3	<10	30	<0.5	<2	6.45	<0.5	66	39	1120	36.6

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Project: Arn

CERTIFICATE OF ANALYSIS VA04041706

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012447		10	<1	0.19	10	2.36	605	1	0.20	79	870	6	0.05	2	8	175
M012448		10	1	0.16	10	1.27	547	1	0.20	14	980	9	0.13	<2	4	199
M012449		10	<1	0.10	10	1.33	807	2	0.09	15	1160	4	0.27	<2	5	105
M012450		10	<1	0.15	<10	1.21	1040	2	0.13	10	1240	8	0.27	2	4	116
M012451		10	<1	0.07	<10	0.29	1345	1	0.02	8	520	2	0.23	2	3	48
M012452		10	<1	0.06	<10	0.56	1220	<1	0.04	16	600	2	0.07	2	3	54
M012453		10	<1	0.06	10	0.94	3470	<1	0.05	27	1040	<2	0.09	2	7	65
M012454		<10	<1	0.11	<10	0.97	1960	5	0.09	35	1160	4	0.03	<2	10	103
M012455		10	1	0.09	<10	1.19	1410	4	0.04	38	920	2	0.05	<2	13	83
M012456		10	1	0.11	<10	0.76	1960	3	0.06	27	1180	<2	0.10	2	12	95
M012457		10	<1	0.08	<10	1.02	2100	1	0.06	25	560	<2	0.07	2	9	72
M012458		10	1	0.08	<10	2.05	1520	1	0.05	74	610	<2	0.05	2	3	42
M012459		<10	<1	0.04	<10	0.32	1765	1	0.03	5	380	<2	0.15	3	2	49
M012460		10	<1	0.08	<10	0.90	1190	1	0.09	26	1250	4	0.12	2	11	99
M012461		10	1	0.10	10	1.21	1065	1	0.10	24	1320	2	0.15	4	11	100
M012462		<10	<1	0.12	<10	0.80	812	<1	0.15	10	1090	6	0.30	2	7	265
M012463		<10	<1	0.08	10	0.53	1140	2	0.05	50	980	3	2.09	3	6	59
M012464		10	<1	0.02	<10	0.33	1060	1	0.01	346	3910	<2	>10.0	2	3	16
M012465		<10	<1	0.02	<10	10.55	137	1	0.03	2	230	7	<0.01	4	<1	323
M012466		<10	<1	0.06	10	0.65	1435	3	0.06	41	1560	8	1.40	3	10	52
M012467		10	1	0.10	<10	1.75	1040	1	0.12	64	700	3	0.38	3	15	116
M012468		10	<1	0.11	<10	0.98	696	3	0.02	28	220	<2	0.40	<2	3	131
M012469		10	1	0.15	<10	1.90	1045	4	0.05	39	820	4	0.22	<2	10	109
M012470		10	<1	0.11	10	0.97	830	2	0.22	20	1210	3	0.36	2	15	206
M012471		10	1	0.12	10	0.90	842	2	0.26	20	1190	2	0.36	4	17	199
M012472		10	<1	0.14	<10	1.01	585	1	0.06	23	800	3	0.47	2	7	258
M012473		10	<1	0.13	<10	1.01	445	1	0.36	22	1110	2	0.57	2	6	301
M012474		10	<1	0.15	<10	1.00	776	1	0.30	14	1040	<2	0.30	2	6	226
M012475		10	<1	0.07	<10	2.04	693	1	0.11	44	710	11	0.21	<2	6	107
M012476		10	<1	0.10	<10	1.08	529	2	0.35	17	1040	2	0.34	2	6	313
M012477		10	<1	0.11	<10	1.19	1805	<1	0.12	10	620	2	0.25	2	7	82
M012478		10	<1	0.08	10	0.38	714	3	0.12	2	1270	5	0.08	<2	4	114
M012479		<10	<1	0.05	<10	0.43	1300	1	0.02	4	1210	2	0.16	<2	6	45
M012480		10	<1	0.09	<10	0.84	838	1	0.11	19	1000	2	0.15	2	10	124
M012481		10	<1	0.08	<10	0.62	855	1	0.04	8	1030	17	0.28	4	8	80
M012482		<10	<1	0.03	<10	8.76	161	1	0.04	2	310	3	<0.01	2	1	302
M012483		10	<1	0.04	10	0.80	977	1	0.03	7	1520	3	0.41	2	10	50
M012484		10	<1	0.06	<10	1.72	1420	1	0.06	97	910	<2	0.40	2	12	87
M012485		10	<1	0.05	10	0.47	1150	3	0.05	7	1460	7	1.32	3	9	24
M012486		10	1	0.11	<10	0.27	1275	1	0.05	8	700	<2	4.60	<2	1	66

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Project: Arn

CERTIFICATE OF ANALYSIS VA04041706

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012447		0.18	<10	<10	116	<10	41
M012448		0.19	<10	<10	108	<10	42
M012449		0.16	<10	<10	112	<10	49
M012450		0.12	<10	<10	98	<10	53
M012451		0.05	<10	<10	39	<10	27
M012452		0.07	<10	<10	40	<10	39
M012453		0.02	<10	<10	57	<10	84
M012454		0.03	<10	<10	94	<10	66
M012455		0.06	<10	<10	122	<10	64
M012456		0.02	<10	<10	118	<10	67
M012457		0.05	<10	<10	87	<10	66
M012458		0.11	<10	<10	77	<10	87
M012459		0.03	<10	<10	32	10	18
M012460		0.08	<10	<10	95	<10	50
M012461		0.10	<10	<10	104	<10	52
M012462		0.08	<10	<10	60	<10	36
M012463		0.07	<10	<10	56	<10	35
M012464		0.03	<10	20	36	<10	152
M012465		0.02	<10	<10	7	<10	18
M012466		0.04	<10	<10	82	<10	71
M012467		0.11	<10	<10	157	<10	56
M012468		0.07	<10	<10	66	<10	53
M012469		0.10	<10	<10	136	<10	63
M012470		0.13	<10	<10	168	<10	52
M012471		0.11	<10	<10	158	<10	47
M012472		0.16	<10	<10	150	<10	57
M012473		0.17	<10	<10	116	<10	31
M012474		0.20	<10	<10	114	<10	47
M012475		0.20	<10	<10	142	<10	85
M012476		0.17	<10	<10	110	<10	37
M012477		0.10	<10	<10	100	<10	89
M012478		0.12	<10	<10	71	<10	40
M012479		0.08	<10	<10	61	<10	58
M012480		0.12	<10	<10	110	<10	52
M012481		0.10	<10	<10	79	<10	117
M012482		0.04	<10	<10	14	<10	18
M012483		0.05	<10	<10	77	<10	60
M012484		0.07	<10	<10	110	<10	85
M012485		0.04	<10	<10	77	<10	64
M012486		0.05	<10	<10	113	<10	47

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VANCOUVER BC V6B 1L8

Date: 16-JUL-2004
Account: RCM

Project: Arn

CERTIFICATE OF ANALYSIS VA04041706

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012487		3.84	0.098	0.2	1.67	8	<10	70	<0.5	<2	10.65	<0.5	29	22	435	16.7
M012488		5.32	<0.005	<0.2	2.13	2	<10	10	<0.5	<2	4.69	<0.5	8	24	39	5.13
M012489		6.32	0.008	<0.2	3.58	2	<10	60	<0.5	<2	2.97	<0.5	18	23	206	3.16
M012490		5.70	0.005	<0.2	3.00	4	<10	20	<0.5	<2	4.58	<0.5	9	28	97	2.97
M012491		5.12	0.015	<0.2	3.04	<2	<10	30	<0.5	<2	3.23	<0.5	13	33	243	2.63
M012492		5.86	<0.005	<0.2	1.72	<2	<10	10	<0.5	<2	8.08	<0.5	8	31	142	5.30
M012493		5.72	<0.005	<0.2	2.38	<2	<10	10	<0.5	<2	7.99	<0.5	8	44	80	5.41
M012494		5.10	<0.005	<0.2	1.88	<2	<10	40	<0.5	<2	4.88	<0.5	13	32	123	3.05

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CERTIFICATE OF ANALYSIS VA04041706

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M012487		10	<1	0.22	<10	0.44	2120	1	0.11	4	230	<2	1.88	2	2	98
M012488		<10	<1	0.09	<10	0.56	1285	<1	0.11	8	780	3	0.11	2	6	100
M012489		10	<1	0.29	<10	1.01	453	1	0.38	15	1020	<2	0.21	<2	6	228
M012490		10	<1	0.15	<10	0.57	671	1	0.20	8	1080	4	0.06	2	4	146
M012491		10	<1	0.19	<10	0.66	444	1	0.27	12	1050	4	0.10	3	3	165
M012492		<10	<1	0.06	<10	0.23	1345	<1	0.05	5	650	3	0.07	2	4	35
M012493		10	<1	0.07	<10	0.35	987	<1	0.09	8	1020	7	0.25	2	3	94
M012494		10	<1	0.16	<10	0.54	619	1	0.10	7	1200	3	0.27	<2	3	104

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Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012487		0.04	<10	<10	80	<10	56
M012488		0.09	<10	<10	65	<10	51
M012489		0.21	<10	<10	116	<10	41
M012490		0.18	<10	<10	87	<10	34
M012491		0.21	<10	<10	93	<10	41
M012492		0.08	<10	<10	57	<10	36
M012493		0.09	<10	<10	90	<10	32
M012494		0.12	<10	<10	65	<10	32

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VANCOUVER BC V6B 1L8**

Finalized D 20-JUL-2004
Account: RCM

CERTIFICATE VA04041705

Project: Arn

P.O. No.:

This report is for 46 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

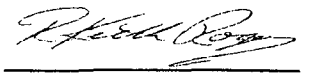
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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: 

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CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
M012401		0.76	0.043		0.3	6.42	<2	30	50	<0.5	<2	5.76	<0.5	7	76	9
M012402		0.72	0.040		0.2	3.51	3	90	10	<0.5	<2	7.67	<0.5	24	214	49
M012403		4.56	<0.005		<0.2	3.09	<2	20	10	<0.5	<2	4.64	<0.5	26	301	22
M012404		1.68	0.201		<0.2	4.49	2	20	10	<0.5	<2	4.06	<0.5	22	292	34
M012405		2.18	0.100		0.2	2.42	11	10	10	<0.5	<2	8.27	<0.5	13	49	99
M012406		2.32	0.088		0.2	2.27	15	10	10	<0.5	<2	10.75	<0.5	16	75	366
M012407		3.16	0.007		<0.2	3.37	5	10	10	<0.5	<2	4.29	<0.5	24	135	137
M012408		3.96	0.008		0.2	3.59	3	10	10	0.5	<2	4.58	<0.5	24	56	162
M012409		4.28	0.020		<0.2	4.21	<2	10	10	0.5	<2	6.02	0.5	21	57	110
M012410		2.56	0.241		0.9	1.68	36	10	20	<0.5	<2	4.98	<0.5	180	12	1490
M012411		1.46	0.005		<0.2	2.90	5	10	10	<0.5	<2	4.10	<0.5	23	205	52
M012412		4.32	0.063		<0.2	3.18	4	10	10	<0.5	<2	4.48	<0.5	20	23	154
M012413		4.06	0.015		0.2	4.01	4	50	20	<0.5	<2	4.75	<0.5	25	23	256
M012414		4.60	0.009		<0.2	2.52	9	10	10	<0.5	<2	8.02	<0.5	14	36	69
M012415		3.18	<0.005		<0.2	3.00	6	10	10	<0.5	<2	3.29	<0.5	23	29	120
M012416		4.26	0.015		0.3	3.11	4	10	10	0.5	<2	5.02	<0.5	29	52	300
M012417		4.64	0.093		0.7	2.43	6	10	10	<0.5	<2	6.33	<0.5	16	28	833
M012418		5.48	0.010		<0.2	2.82	12	10	20	<0.5	<2	3.57	<0.5	20	61	63
M012419		4.90	0.014		0.2	2.75	2	10	10	0.5	<2	3.90	<0.5	21	46	254
M012420		4.40	0.007		<0.2	3.26	3	10	10	<0.5	<2	3.44	<0.5	15	28	86
M012421		4.84	0.187		<0.2	1.74	15	10	10	<0.5	<2	6.14	<0.5	19	29	81
M012422		1.88	<0.005		<0.2	0.38	6	20	40	<0.5	<2	24.8	<0.5	<1	7	12
M012423		3.20	0.586		<0.2	0.91	45	10	70	<0.5	3	4.56	<0.5	31	28	459
M012424		4.42	0.446		<0.2	2.26	8	10	50	<0.5	<2	8.94	<0.5	8	37	33
M012425		4.68	0.035		<0.2	1.38	5	10	10	<0.5	<2	6.78	<0.5	9	36	11
M012426		3.76	0.013		<0.2	3.22	<2	10	10	<0.5	<2	5.15	<0.5	14	24	55
M012427		2.36	0.042		0.2	0.65	7	10	10	0.5	<2	4.21	<0.5	18	63	27
M012428		4.82	0.015		<0.2	2.23	2	10	10	<0.5	<2	8.45	<0.5	6	22	8
M012429		1.82	0.006		<0.2	1.60	2	10	20	<0.5	<2	3.82	<0.5	7	8	3
M012430		2.72	<0.005		<0.2	1.56	<2	10	10	<0.5	<2	3.14	<0.5	9	13	1
M012431		3.18	<0.005		<0.2	1.30	5	10	10	<0.5	<2	4.51	<0.5	9	10	8
M012432		2.86	0.005		<0.2	2.95	2	10	10	<0.5	<2	5.77	<0.5	31	90	100
M012433		5.44	0.081		0.5	3.11	20	10	10	<0.5	<2	4.02	<0.5	25	88	671
M012434		5.12	0.094		0.4	3.58	41	10	10	<0.5	<2	4.87	<0.5	23	95	431
M012435		2.52	3.09		48.7	0.40	11	<10	10	<0.5	95	2.49	5.3	310	20	>10000
M012436		5.52	0.555		3.2	0.59	37	<10	10	<0.5	<2	6.77	<0.5	44	28	5240
M012437		3.46	0.194		<0.2	2.73	14	10	10	<0.5	<2	4.78	<0.5	17	81	298
M012438		0.44	>10.0	56.5	27.9	0.85	314	<10	10	<0.5	17	3.05	3.8	116	40	>10000
M012439		2.16	0.062		0.2	2.31	26	10	20	<0.5	<2	3.42	<0.5	18	21	401
M012440		4.20	0.057		0.7	0.76	27	<10	10	<0.5	<2	5.36	1.3	92	4	1640

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Project: Arn

Finalized Date: 20-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	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
M012401		2.56	10	1	0.31	<10	0.87	437	1	0.72	18	730	3	0.03	5	11
M012402		4.62	10	2	0.13	10	2.84	1090	1	0.12	136	700	9	0.07	3	17
M012403		3.62	10	2	0.08	<10	3.63	863	<1	0.09	184	520	3	<0.01	2	12
M012404		10.80	10	1	0.06	<10	4.00	1680	<1	0.08	143	820	5	0.08	4	13
M012405		7.69	<10	2	0.06	<10	1.27	1480	<1	0.04	10	630	8	1.77	3	7
M012406		20.2	10	1	0.02	<10	1.79	1710	1	0.03	26	740	12	1.10	6	4
M012407		4.41	10	2	0.08	10	3.10	793	1	0.07	96	1150	9	0.32	3	10
M012408		4.77	10	<1	0.07	10	2.14	743	1	0.06	35	1520	17	0.43	2	9
M012409		4.55	10	2	0.08	10	1.89	877	2	0.05	29	1380	5	0.24	2	11
M012410		13.50	<10	1	0.08	<10	1.05	1415	1	0.07	118	1110	3	6.22	6	4
M012411		4.72	10	1	0.07	10	2.33	997	<1	0.06	136	870	4	0.09	2	10
M012412		4.08	10	<1	0.12	10	1.26	831	2	0.11	19	1030	6	0.34	<2	6
M012413		4.44	10	2	0.15	10	1.45	874	3	0.13	21	1120	5	0.50	3	9
M012414		4.16	10	2	0.08	10	1.23	987	1	0.08	18	1230	4	0.37	2	7
M012415		4.59	10	1	0.14	<10	1.86	727	<1	0.09	46	820	4	0.19	2	8
M012416		4.54	10	2	0.05	10	1.33	850	2	0.06	37	1740	4	0.42	2	14
M012417		4.19	10	1	0.08	10	0.89	950	6	0.06	17	1190	8	0.33	<2	5
M012418		4.08	10	2	0.12	10	1.01	934	3	0.13	49	1060	3	0.10	2	12
M012419		4.56	10	2	0.09	10	1.08	978	2	0.06	26	1320	3	0.13	3	11
M012420		3.29	10	1	0.19	10	1.11	647	1	0.17	22	850	4	0.06	2	11
M012421		6.62	<10	<1	0.11	20	0.85	1720	8	0.09	28	1750	<2	0.35	2	11
M012422		0.39	<10	1	0.05	10	10.35	128	<1	0.04	4	270	7	<0.01	2	1
M012423		>50	<10	<1	0.31	<10	0.41	1425	<1	0.11	10	1290	<2	5.09	9	2
M012424		27.3	10	1	0.28	10	0.66	2220	1	0.12	4	1460	<2	0.65	6	4
M012425		4.40	<10	2	0.08	50	0.69	1090	1	0.07	14	1010	<2	0.02	2	7
M012426		4.18	10	1	0.15	10	1.00	1010	25	0.16	12	1170	2	0.04	2	7
M012427		13.85	<10	1	0.03	40	1.57	3740	<1	0.07	17	1280	2	0.25	4	19
M012428		5.51	<10	1	0.06	10	0.51	1900	1	0.06	4	1080	3	0.03	3	5
M012429		3.89	10	1	0.09	10	0.70	1005	3	0.09	3	1500	4	0.03	2	8
M012430		4.44	10	1	0.07	10	0.93	868	2	0.06	3	1920	6	0.01	3	9
M012431		4.85	10	2	0.07	10	1.41	1070	1	0.06	3	1760	4	0.05	<2	12
M012432		5.73	10	<1	0.18	10	2.23	1130	1	0.10	111	810	6	0.27	3	10
M012433		3.16	10	1	0.11	10	1.34	637	14	0.19	103	890	4	0.38	<2	10
M012434		3.93	10	2	0.14	<10	1.45	806	6	0.19	99	780	3	0.18	2	10
M012435		>50	<10	2	0.03	<10	0.09	368	1	0.03	313	400	4	>10.0	5	2
M012436		31.2	10	<1	0.06	<10	0.25	1125	1	0.05	27	610	<2	2.98	<2	2
M012437		5.55	10	1	0.14	<10	0.73	1075	1	0.15	31	780	3	0.27	2	9
M012438		23.3	10	<1	0.04	<10	0.63	1465	1	0.04	187	1020	8	7.65	3	6
M012439		5.63	10	1	0.16	10	0.66	1140	4	0.15	24	1120	3	0.46	2	10
M012440		32.3	10	<1	0.10	<10	0.25	1430	2	0.09	52	1980	<2	6.43	<2	1

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Project: Arn

Finalized Date: 20-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012401		520	0.27	<10	<10	120	<10	31	
M012402		208	0.04	<10	<10	116	<10	59	
M012403		110	0.09	<10	<10	91	<10	68	
M012404		72	0.12	<10	<10	136	<10	134	
M012405		62	0.08	<10	<10	59	<10	47	
M012406		86	0.07	<10	<10	65	<10	52	
M012407		203	0.19	<10	<10	118	<10	53	
M012408		132	0.22	<10	<10	138	<10	61	
M012409		166	0.21	<10	<10	140	<10	73	
M012410		60	0.07	<10	<10	51	<10	43	
M012411		80	0.11	<10	<10	97	<10	66	
M012412		133	0.18	<10	<10	116	<10	66	
M012413		146	0.22	<10	<10	154	<10	56	
M012414		122	0.15	<10	<10	90	<10	42	
M012415		76	0.19	<10	<10	148	<10	64	
M012416		61	0.13	<10	<10	131	<10	59	
M012417		78	0.14	<10	<10	79	<10	86	
M012418		144	0.06	<10	<10	101	<10	53	
M012419		66	0.13	<10	<10	131	<10	62	
M012420		132	0.14	<10	<10	126	<10	47	
M012421		86	0.04	<10	<10	91	<10	57	
M012422		399	0.02	<10	<10	9	<10	18	
M012423		52	0.06	<10	<10	168	<10	27	
M012424		98	0.07	<10	<10	88	<10	49	
M012425		80	0.06	<10	<10	45	<10	36	
M012426		145	0.22	<10	<10	121	<10	48	
M012427		53	0.01	<10	<10	78	<10	108	
M012428		72	0.12	<10	<10	63	<10	42	
M012429		88	0.07	<10	<10	58	<10	45	
M012430		46	0.09	<10	<10	59	<10	58	
M012431		64	0.07	<10	<10	88	<10	55	
M012432		106	0.20	<10	<10	148	<10	74	
M012433		172	0.08	<10	<10	85	<10	73	
M012434		164	0.09	<10	<10	94	<10	52	
M012435		3	0.01	<10	<10	43	10	1225	6.08
M012436		41	0.03	<10	<10	60	<10	116	
M012437		140	0.11	<10	<10	93	<10	54	
M012438		29	0.03	<10	<10	87	<10	712	4.56
M012439		102	0.08	<10	<10	112	<10	108	
M012440		33	0.03	<10	<10	51	<10	55	

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CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012441		1.68	<0.005		<0.2	0.19	5	10	30	<0.5	<2	22.9	<0.5	1	9	21
M012442		2.04	0.027		<0.2	3.32	3	10	10	<0.5	<2	4.23	<0.5	10	28	151
M012443		6.56	5.90		32.7	1.08	20	<10	<10	<0.5	<2	7.80	5.8	142	11	>10000
M012444		6.18	0.458		5.1	1.34	24	<10	<10	<0.5	<2	9.34	1.3	122	21	7000
M012445		3.58	0.016		<0.2	2.33	10	<10	10	<0.5	<2	2.64	<0.5	16	17	167
M012446		5.02	0.008		<0.2	2.01	11	<10	10	<0.5	<2	6.88	<0.5	10	20	72

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CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	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
M012441		0.45	<10	<1	0.02	<10	9.94	118	<1	0.02	2	210	3	<0.01	3	<1
M012442		3.90	10	<1	0.15	<10	0.79	828	3	0.19	18	880	<2	0.08	<2	4
M012443		15.8	10	<1	0.02	<10	0.17	1300	<1	0.01	102	580	<2	6.23	2	1
M012444		14.8	10	<1	0.03	<10	0.22	1545	<1	0.02	142	950	4	5.10	3	<1
M012445		4.80	10	<1	0.11	<10	0.85	899	1	0.13	13	1080	3	0.12	3	7
M012446		5.36	<10	<1	0.08	10	0.38	1410	1	0.10	10	1080	3	0.40	<2	7

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Project: Arn

Finalized Date: 20-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041705

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01
M012441		331	0.02	<10	<10	5	<10	12	
M012442		186	0.15	<10	<10	89	<10	44	
M012443		8	0.01	<10	10	34	<10	664	4.30
M012444		17	0.02	<10	10	43	<10	120	
M012445		82	0.12	<10	<10	99	<10	50	
M012446		75	0.10	<10	10	75	<10	35	

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: 10-JUL-2004
This copy reported on: 14-JUL-2004
Account: RCM

CERTIFICATE VA04041702

Project: Arn-west

P.O. No.:

This report is for 4 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

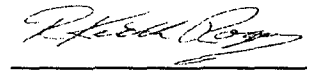
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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Project: Arn-west

Date: 10-JUL-2004
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CERTIFICATE OF ANALYSIS VA04041702

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001
BB28358		0.14	0.090
BB28371		0.22	0.032
BB28372		0.28	0.005
BB28373		0.30	0.311

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.: 12-JUL-2004
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CERTIFICATE VA04041701

Project: Arn-west

P.O. No.:

This report is for 25 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
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Project: Arn-west

Date: 12-JUL-2004
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CERTIFICATE OF ANALYSIS VA04041701

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005
M012301		1.10	0.612
M012302		0.82	2.72
M012303		0.88	2.66
M012304		0.62	0.410
M012305		0.80	0.829
M012306		1.88	0.656
M012307		0.74	0.554
M012308		0.82	7.73
M012309		1.30	1.960
M012310		3.22	0.031
M012311		0.98	0.013
M012312		1.08	1.095
M012313		1.36	0.150
M012314		0.46	3.74
M012315		0.48	8.62
M012316		0.60	0.480
M012317		0.46	0.670
M012318		0.32	0.113
M012319		0.86	2.13
M012320		0.70	1.595
M012321		1.22	0.444
M012322		1.44	0.761
M012325		0.64	0.018
M012326		0.84	0.624
M012327		0.72	0.086

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CERTIFICATE VA04041700

Project: Recon Porphyry

P.O. No.:

This report is for 15 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

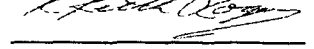
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Date: 14-JUL-2004
Account: RCM

Project: Recon Porphyry

CERTIFICATE OF ANALYSIS VA04041700

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
BB28359		0.24	0.028	<0.2	1.61	8	<10	110	<0.5	<2	0.83	<0.5	26	46	151	3.03
BB28360		0.24	0.041	0.3	2.07	15	<10	70	<0.5	2	1.07	0.8	14	20	89	3.25
BB28361		0.26	0.005	<0.2	3.27	13	10	10	0.5	2	3.35	<0.5	11	5	178	2.74
BB28362		0.26	0.109	0.5	2.04	13	<10	80	<0.5	2	1.00	<0.5	26	25	613	4.07
BB28363		0.24	0.050	<0.2	1.79	3	<10	60	<0.5	<2	0.83	<0.5	12	11	18	2.84
BB28364		0.28	0.035	<0.2	2.02	7	<10	60	<0.5	<2	1.08	<0.5	17	9	78	2.84
BB28365		0.28	0.079	<0.2	1.54	12	<10	70	<0.5	<2	0.72	<0.5	9	7	22	2.89
BB28366		0.24	0.007	<0.2	2.78	8	<10	80	<0.5	<2	1.32	<0.5	12	8	25	4.52
BB28367		0.30	0.007	<0.2	1.70	10	<10	70	<0.5	<2	0.82	0.7	12	13	42	3.74
BB28368		0.40	0.004	<0.2	2.83	7	10	50	0.5	2	1.66	<0.5	10	9	45	3.20
BB28369		0.18	0.013	0.2	2.12	10	<10	70	<0.5	2	1.57	<0.5	14	12	35	3.54
BB28370		0.28	0.056	0.2	0.99	18	<10	40	<0.5	3	0.49	0.5	9	5	93	2.38
BB28379		0.06	0.009	0.2	3.19	9	10	110	<0.5	<2	2.46	0.5	33	79	152	3.59
BB28380		0.12	0.032	<0.2	2.29	4	<10	60	<0.5	<2	1.26	<0.5	13	59	73	2.60
BB28381		0.10	0.036	0.2	2.29	12	<10	70	<0.5	2	1.18	<0.5	16	47	198	2.74

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Project: Recon Porphyry

CERTIFICATE OF ANALYSIS VA04041700

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
BB28359		<10	1	0.13	10	0.54	452	1	0.03	44	1180	3	0.04	<2	2	96
BB28360		10	2	0.08	10	0.77	684	3	0.02	14	810	9	0.01	<2	3	91
BB28361		10	2	0.06	10	0.47	568	1	0.01	7	840	<2	<0.01	<2	3	91
BB28362		10	2	0.08	10	0.74	691	25	0.03	20	870	<2	0.03	<2	3	138
BB28363		10	2	0.05	10	0.81	424	<1	0.01	10	780	<2	<0.01	<2	3	99
BB28364		10	1	0.07	10	0.69	342	1	0.02	8	710	<2	<0.01	<2	2	92
BB28365		10	1	0.07	10	0.66	536	1	0.01	6	680	<2	<0.01	<2	2	52
BB28366		10	2	0.16	10	1.02	529	1	<0.01	7	1160	2	<0.01	<2	5	64
BB28367		10	<1	0.09	10	0.73	516	1	0.02	10	1040	14	<0.01	<2	3	61
BB28368		10	1	0.10	10	0.61	421	<1	0.01	9	890	2	0.01	<2	3	84
BB28369		10	<1	0.10	10	0.70	615	1	0.02	13	1020	<2	0.09	<2	3	98
BB28370		<10	<1	0.05	<10	0.48	355	6	<0.01	4	640	7	<0.01	<2	2	39
BB28379		10	2	0.13	10	0.95	545	1	0.06	72	1040	<2	0.04	<2	5	160
BB28380		10	2	0.05	10	0.72	312	1	0.11	34	1000	2	0.01	<2	3	121
BB28381		10	<1	0.09	10	0.84	425	2	0.10	28	960	<2	0.02	<2	3	120

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Project: Recon Porphyry

Date: 14-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041700

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB28359		0.10	<10	<10	89	<10	36
BB28360		0.04	<10	<10	49	<10	72
BB28361		<0.01	<10	<10	26	<10	24
BB28362		0.05	<10	<10	56	<10	34
BB28363		0.05	<10	<10	48	<10	28
BB28364		0.04	<10	<10	41	<10	23
BB28365		0.04	<10	<10	38	<10	21
BB28366		0.10	<10	<10	62	<10	29
BB28367		0.06	<10	<10	59	<10	53
BB28368		0.01	<10	<10	41	<10	22
BB28369		0.03	<10	<10	47	<10	24
BB28370		0.03	<10	<10	31	<10	48
BB28379		0.09	<10	<10	86	<10	60
BB28380		0.06	<10	<10	65	<10	43
BB28381		0.07	<10	<10	64	<10	53

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CERTIFICATE VA04041679

Project: Recon Porphyry

P.O. No.:

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

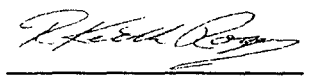
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **ATAC RESOURCES LTD.**
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Project: Recon Porphyry

Date: 12-JUL-2004
This copy reported on: 14-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041679

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012323		0.58	<0.005	<0.2	0.83	4	<10	30	<0.5	2	0.54	<0.5	6	8	23	2.01
M012324		0.60	<0.005	<0.2	6.08	2	<10	60	<0.5	<2	3.85	<0.5	12	161	57	3.20
M012328		0.46	<0.005	<0.2	0.77	<2	<10	180	<0.5	<2	0.70	<0.5	9	15	78	3.12

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Project: Recon Porphyry

Date: 12-JUL-2004
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Account: RCM

CERTIFICATE OF ANALYSIS VA04041679

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M012323		<10	1	0.04	<10	0.54	153	10	0.02	3	480	<2	0.13	<2	2	46
M012324		10	<1	0.05	<10	0.71	198	<1	0.70	36	340	<2	0.03	<2	4	405
M012328		<10	<1	0.26	<10	0.60	227	1	0.06	11	970	<2	0.01	<2	5	33

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Project: Recon Porphyry

Date: 12-JUL-2004
This copy reported on: 14-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04041679

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012323		0.05	<10	<10	29	<10	10
M012324		0.09	<10	<10	137	<10	27
M012328		0.15	<10	<10	146	<10	24

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Finalized: 20-JUL-2004
Account: RCM

CERTIFICATE VA04041559

Project: Arn

P.O. No.:

This report is for 15 Rock samples submitted to our lab in Vancouver, BC, Canada on 7-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

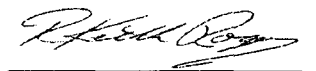
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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

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

Signature: 

ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: ATAC RESOURCES LTD.
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Finalized Date: 20-JUL-2004
Account: RCM

Project: Arn

CERTIFICATE OF ANALYSIS VA04041559

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
M012495		5.06	<0.005	<0.2	5.69	7	20	60	<0.5	<2	4.76	<0.5	16	117	32	5.69
M012496		2.66	0.008	<0.2	5.94	<2	30	20	<0.5	<2	5.16	<0.5	4	21	8	1.06
M012497		0.92	0.009	<0.2	2.46	5	20	10	<0.5	<2	3.66	<0.5	6	18	13	1.56
M012498		5.90	<0.005	<0.2	5.48	<2	60	30	<0.5	<2	4.40	<0.5	5	22	6	1.26
M012499		7.70	<0.005	<0.2	4.98	3	20	70	<0.5	2	4.84	<0.5	28	133	91	10.15
M012500		1.38	0.032	0.5	1.93	10	10	10	<0.5	3	11.80	<0.5	52	36	521	20.9
M012501		4.64	0.005	0.2	3.84	5	20	30	<0.5	<2	3.47	<0.5	7	15	19	1.87
M012502		4.34	<0.005	0.2	4.03	6	20	30	<0.5	<2	3.71	<0.5	11	19	14	3.01
M012503		1.30	0.058	1.3	1.36	3	10	<10	<0.5	<2	22.6	<0.5	111	17	1600	7.82
M012504		1.84	<0.005	0.4	0.28	9	10	30	<0.5	<2	22.7	<0.5	1	9	35	0.37
M012505		4.84	0.007	<0.2	4.01	<2	20	20	<0.5	<2	3.74	<0.5	4	14	10	1.44
M012506		5.82	0.014	0.2	4.93	<2	10	10	<0.5	<2	4.92	<0.5	6	20	25	1.86
M012507		1.10	0.153	2.1	2.56	9	10	<10	<0.5	4	4.83	<0.5	259	25	3140	23.6
M012508		4.42	0.015	0.4	3.80	<2	20	20	<0.5	<2	5.24	<0.5	17	33	118	3.24
M012509		4.12	0.029	0.3	3.78	2	20	10	0.5	<2	6.27	<0.5	6	20	244	2.35

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Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	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
M012495		10	<1	0.34	<10	1.10	737	1	0.64	38	980	<2	0.15	<2	17	404
M012496		10	1	0.08	<10	0.45	252	1	0.70	8	870	4	0.07	<2	4	505
M012497		10	1	0.08	10	0.73	333	1	0.18	4	1020	<2	0.06	<2	4	160
M012498		10	1	0.13	10	0.65	247	<1	0.67	9	920	5	0.04	<2	3	460
M012499		10	<1	0.66	<10	0.66	1200	1	0.57	42	950	2	0.27	<2	23	258
M012500		10	1	0.04	10	0.29	976	1	0.09	32	1110	<2	2.79	<2	4	148
M012501		10	<1	0.16	10	0.75	324	<1	0.38	6	1120	3	0.07	<2	3	322
M012502		10	1	0.17	10	0.95	418	1	0.29	9	1040	5	0.07	<2	5	301
M012503		<10	<1	0.03	<10	0.30	823	1	0.06	19	920	2	4.6	<2	1	125
M012504		<10	<1	0.03	<10	9.94	148	<1	0.04	1	220	5	<0.01	3	1	345
M012505		10	<1	0.09	10	0.42	279	<1	0.52	2	1140	4	0.05	<2	4	489
M012506		10	1	0.08	10	0.37	402	1	0.55	3	1100	5	0.12	<2	3	432
M012507		10	1	0.02	<10	0.62	1430	2	0.10	42	3240	5	8.92	<2	3	150
M012508		10	1	0.11	10	0.87	632	<1	0.13	13	1230	3	0.22	<2	7	163
M012509		10	1	0.05	10	0.67	581	1	0.14	5	1260	3	0.13	<2	8	158

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Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M012495		0.38	<10	<10	181	<10	61
M012496		0.13	<10	<10	64	<10	28
M012497		0.16	<10	<10	80	<10	19
M012498		0.17	<10	<10	76	<10	32
M012499		0.45	<10	<10	196	<10	85
M012500		0.09	<10	<10	78	<10	29
M012501		0.22	<10	<10	110	<10	37
M012502		0.25	<10	<10	146	<10	46
M012503		0.04	<10	<10	33	<10	46
M012504		0.02	<10	<10	7	<10	16
M012505		0.17	<10	<10	70	<10	26
M012506		0.17	<10	<10	75	<10	33
M012507		0.11	<10	<10	87	<10	69
M012508		0.18	<10	<10	117	<10	44
M012509		0.18	<10	<10	100	<10	42